

## 8 CONDUCTED RF OUPUT POWER

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## 8.1 GSM Output Power

| GSM-Full Power-Ant.1&4 |                          |       |       |            |                      |       |       |            |
|------------------------|--------------------------|-------|-------|------------|----------------------|-------|-------|------------|
| GSM850 Band            | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged power |       |       | Tune-up    |
| Channel                | 128                      | 190   | 251   | Power(dBm) | 128                  | 190   | 251   | Power(dBm) |
| GSM (GMSK, 1-Slot)     | 32.70                    | 32.58 | 32.49 | 33.50      | 23.51                | 23.39 | 23.30 | 24.31      |
| GPRS (GMSK, 1-Slot)    | 32.64                    | 32.52 | 32.43 | 33.50      | 23.45                | 23.33 | 23.24 | 24.31      |
| GPRS (GMSK, 2-Slots)   | 31.94                    | 31.77 | 31.65 | 32.00      | 25.81                | 25.64 | 25.52 | 25.87      |
| GPRS (GMSK, 3-Slots)   | 29.95                    | 30.19 | 29.85 | 30.50      | 25.53                | 25.77 | 25.43 | 26.08      |
| GPRS (GMSK, 4-Slots)   | 28.98                    | 28.93 | 28.78 | 29.00      | 25.80                | 25.75 | 25.60 | 25.82      |
| EGPRS (8PSK, 1-Slot)   | 27.38                    | 27.18 | 26.72 | 28.50      | 18.19                | 17.99 | 17.53 | 19.31      |
| EGPRS (8PSK, 2-Slots)  | 25.71                    | 25.70 | 25.53 | 26.50      | 19.58                | 19.57 | 19.40 | 20.37      |
| EGPRS (8PSK, 3-Slots)  | 23.62                    | 23.51 | 23.33 | 24.50      | 19.20                | 19.09 | 18.91 | 20.08      |
| EGPRS (8PSK, 4-Slots)  | 22.42                    | 22.25 | 22.17 | 23.50      | 19.24                | 19.07 | 18.99 | 20.32      |
| GSM1900 Band           | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged       |       |       | Tune-up    |
| Channel                | 512                      | 661   | 810   | Power(dBm) | 512                  | 661   | 810   | Power(dBm) |
| GSM (GMSK, 1-Slot)     | 29.57                    | 29.68 | 29.75 | 30.50      | 20.38                | 20.49 | 20.56 | 21.31      |
| GPRS (GMSK, 1-Slot)    | 29.53                    | 29.64 | 29.72 | 30.50      | 20.34                | 20.45 | 20.53 | 21.31      |
| GPRS (GMSK, 2-Slots)   | 28.35                    | 28.38 | 28.38 | 28.50      | 22.22                | 22.25 | 22.25 | 22.37      |
| GPRS (GMSK, 3-Slots)   | 26.71                    | 26.90 | 27.08 | 27.50      | 22.29                | 22.48 | 22.66 | 23.08      |
| GPRS (GMSK, 4-Slots)   | 25.19                    | 25.40 | 25.40 | 25.50      | 22.01                | 22.22 | 22.22 | 22.32      |
| EGPRS (8PSK, 1-Slot)   | 26.44                    | 26.35 | 26.39 | 28.00      | 17.25                | 17.16 | 17.20 | 18.81      |
| EGPRS (8PSK, 2-Slots)  | 24.75                    | 24.71 | 24.84 | 25.00      | 18.62                | 18.58 | 18.71 | 18.87      |
| EGPRS (8PSK, 3-Slots)  | 22.72                    | 22.68 | 22.71 | 23.00      | 18.30                | 18.26 | 18.29 | 18.58      |
| EGPRS (8PSK, 4-Slots)  | 21.65                    | 21.68 | 21.68 | 22.50      | 18.47                | 18.50 | 18.50 | 19.32      |

| GSM-State1-Ant.1&4    |                          |       |       |            |                      |       |       |            |
|-----------------------|--------------------------|-------|-------|------------|----------------------|-------|-------|------------|
| GSM850 Band           | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged power |       |       | Tune-up    |
| Channel               | 128                      | 190   | 251   | Power(dBm) | 128                  | 190   | 251   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 32.70                    | 32.58 | 32.49 | 33.50      | 23.51                | 23.39 | 23.30 | 24.31      |
| GPRS (GMSK, 1-Slot)   | 32.64                    | 32.52 | 32.43 | 33.50      | 23.45                | 23.33 | 23.24 | 24.31      |
| GPRS (GMSK, 2-Slots)  | 31.94                    | 31.77 | 31.65 | 32.00      | 25.81                | 25.64 | 25.52 | 25.87      |
| GPRS (GMSK, 3-Slots)  | 29.95                    | 30.19 | 29.85 | 30.50      | 25.53                | 25.77 | 25.43 | 26.08      |
| GPRS (GMSK, 4-Slots)  | 28.98                    | 28.93 | 28.78 | 29.00      | 25.80                | 25.75 | 25.60 | 25.82      |
| EGPRS (8PSK, 1-Slot)  | 27.38                    | 27.18 | 26.72 | 28.50      | 18.19                | 17.99 | 17.53 | 19.31      |
| EGPRS (8PSK, 2-Slots) | 25.71                    | 25.70 | 25.53 | 26.50      | 19.58                | 19.57 | 19.40 | 20.37      |
| EGPRS (8PSK, 3-Slots) | 23.62                    | 23.51 | 23.33 | 24.50      | 19.20                | 19.09 | 18.91 | 20.08      |
| EGPRS (8PSK, 4-Slots) | 22.42                    | 22.25 | 22.17 | 23.50      | 19.24                | 19.07 | 18.99 | 20.32      |
| GSM1900 Band          | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged       |       |       | Tune-up    |
| Channel               | 512                      | 661   | 810   | Power(dBm) | 512                  | 661   | 810   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 27.49                    | 27.66 | 27.85 | 29.00      | 18.30                | 18.47 | 18.66 | 19.81      |
| GPRS (GMSK, 1-Slot)   | 27.46                    | 27.64 | 27.81 | 29.00      | 18.27                | 18.45 | 18.62 | 19.81      |
| GPRS (GMSK, 2-Slots)  | 26.45                    | 26.65 | 26.82 | 27.00      | 20.32                | 20.52 | 20.69 | 20.87      |
| GPRS (GMSK, 3-Slots)  | 24.76                    | 24.98 | 25.21 | 26.00      | 20.34                | 20.56 | 20.79 | 21.58      |
| GPRS (GMSK, 4-Slots)  | 23.72                    | 23.95 | 23.87 | 24.00      | 20.54                | 20.77 | 20.69 | 20.82      |
| EGPRS (8PSK, 1-Slot)  | 24.57                    | 24.54 | 24.63 | 26.50      | 15.38                | 15.35 | 15.44 | 17.31      |
| EGPRS (8PSK, 2-Slots) | 23.11                    | 22.67 | 22.78 | 23.50      | 16.98                | 16.54 | 16.65 | 17.37      |
| EGPRS (8PSK, 3-Slots) | 21.15                    | 21.08 | 21.01 | 21.50      | 16.73                | 16.66 | 16.59 | 17.08      |
| EGPRS (8PSK, 4-Slots) | 19.90                    | 19.83 | 19.86 | 21.00      | 16.72                | 16.65 | 16.68 | 17.82      |

| GSM-State2&4-Ant.1&4  |                          |       |       |            |                      |       |       |            |
|-----------------------|--------------------------|-------|-------|------------|----------------------|-------|-------|------------|
| GSM850 Band           | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged power |       |       | Tune-up    |
| Channel               | 128                      | 190   | 251   | Power(dBm) | 128                  | 190   | 251   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 32.70                    | 32.58 | 32.49 | 33.50      | 23.51                | 23.39 | 23.30 | 24.31      |
| GPRS (GMSK, 1-Slot)   | 32.64                    | 32.52 | 32.43 | 33.50      | 23.45                | 23.33 | 23.24 | 24.31      |
| GPRS (GMSK, 2-Slots)  | 31.94                    | 31.77 | 31.65 | 32.00      | 25.81                | 25.64 | 25.52 | 25.87      |
| GPRS (GMSK, 3-Slots)  | 29.95                    | 30.19 | 29.85 | 30.50      | 25.53                | 25.77 | 25.43 | 26.08      |
| GPRS (GMSK, 4-Slots)  | 28.98                    | 28.93 | 28.78 | 29.00      | 25.80                | 25.75 | 25.60 | 25.82      |
| EGPRS (8PSK, 1-Slot)  | 27.38                    | 27.18 | 26.72 | 28.50      | 18.19                | 17.99 | 17.53 | 19.31      |
| EGPRS (8PSK, 2-Slots) | 25.71                    | 25.70 | 25.53 | 26.50      | 19.58                | 19.57 | 19.40 | 20.37      |
| EGPRS (8PSK, 3-Slots) | 23.62                    | 23.51 | 23.33 | 24.50      | 19.20                | 19.09 | 18.91 | 20.08      |
| EGPRS (8PSK, 4-Slots) | 22.42                    | 22.25 | 22.17 | 23.50      | 19.24                | 19.07 | 18.99 | 20.32      |
| GSM1900 Band          | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged       |       |       | Tune-up    |
| Channel               | 512                      | 661   | 810   | Power(dBm) | 512                  | 661   | 810   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 23.92                    | 24.14 | 24.37 | 25.50      | 14.73                | 14.95 | 15.18 | 16.31      |
| GPRS (GMSK, 1-Slot)   | 23.90                    | 24.12 | 24.37 | 25.50      | 14.71                | 14.93 | 15.18 | 16.31      |
| GPRS (GMSK, 2-Slots)  | 22.89                    | 23.09 | 23.31 | 23.50      | 16.76                | 16.96 | 17.18 | 17.37      |
| GPRS (GMSK, 3-Slots)  | 21.28                    | 21.49 | 21.74 | 22.50      | 16.86                | 17.07 | 17.32 | 18.08      |
| GPRS (GMSK, 4-Slots)  | 20.30                    | 20.18 | 20.45 | 20.50      | 17.12                | 17.00 | 17.27 | 17.32      |
| EGPRS (8PSK, 1-Slot)  | 21.15                    | 21.21 | 21.12 | 23.00      | 11.96                | 12.02 | 11.93 | 13.81      |
| EGPRS (8PSK, 2-Slots) | 19.76                    | 19.44 | 19.09 | 20.00      | 13.63                | 13.31 | 12.96 | 13.87      |
| EGPRS (8PSK, 3-Slots) | 17.51                    | 17.53 | 17.42 | 18.00      | 13.09                | 13.11 | 13.00 | 13.58      |
| EGPRS (8PSK, 4-Slots) | 16.48                    | 16.46 | 16.40 | 17.50      | 13.30                | 13.28 | 13.22 | 14.32      |

| GSM-State3&5-Ant.1&4  |                          |       |       |            |                      |       |       |            |
|-----------------------|--------------------------|-------|-------|------------|----------------------|-------|-------|------------|
| GSM850 Band           | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged power |       |       | Tune-up    |
| Channel               | 128                      | 190   | 251   | Power(dBm) | 128                  | 190   | 251   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 32.70                    | 32.58 | 32.49 | 33.50      | 23.51                | 23.39 | 23.30 | 24.31      |
| GPRS (GMSK, 1-Slot)   | 32.64                    | 32.52 | 32.43 | 33.50      | 23.45                | 23.33 | 23.24 | 24.31      |
| GPRS (GMSK, 2-Slots)  | 31.94                    | 31.77 | 31.65 | 32.00      | 25.81                | 25.64 | 25.52 | 25.87      |
| GPRS (GMSK, 3-Slots)  | 29.95                    | 30.19 | 29.85 | 30.50      | 25.53                | 25.77 | 25.43 | 26.08      |
| GPRS (GMSK, 4-Slots)  | 28.98                    | 28.93 | 28.78 | 29.00      | 25.80                | 25.75 | 25.60 | 25.82      |
| EGPRS (8PSK, 1-Slot)  | 27.38                    | 27.18 | 26.72 | 28.50      | 18.19                | 17.99 | 17.53 | 19.31      |
| EGPRS (8PSK, 2-Slots) | 25.71                    | 25.70 | 25.53 | 26.50      | 19.58                | 19.57 | 19.40 | 20.37      |
| EGPRS (8PSK, 3-Slots) | 23.62                    | 23.51 | 23.33 | 24.50      | 19.20                | 19.09 | 18.91 | 20.08      |
| EGPRS (8PSK, 4-Slots) | 22.42                    | 22.25 | 22.17 | 23.50      | 19.24                | 19.07 | 18.99 | 20.32      |
| GSM1900 Band          | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged       |       |       | Tune-up    |
| Channel               | 512                      | 661   | 810   | Power(dBm) | 512                  | 661   | 810   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 26.01                    | 26.24 | 26.42 | 27.50      | 16.82                | 17.05 | 17.23 | 18.31      |
| GPRS (GMSK, 1-Slot)   | 26.00                    | 26.22 | 26.40 | 27.50      | 16.81                | 17.03 | 17.21 | 18.31      |
| GPRS (GMSK, 2-Slots)  | 24.84                    | 25.08 | 25.31 | 25.50      | 18.71                | 18.95 | 19.18 | 19.37      |
| GPRS (GMSK, 3-Slots)  | 23.26                    | 23.47 | 23.73 | 24.50      | 18.84                | 19.05 | 19.31 | 20.08      |
| GPRS (GMSK, 4-Slots)  | 22.33                    | 22.22 | 22.45 | 22.50      | 19.15                | 19.04 | 19.27 | 19.32      |
| EGPRS (8PSK, 1-Slot)  | 23.25                    | 23.32 | 23.34 | 25.00      | 14.06                | 14.13 | 14.15 | 15.81      |
| EGPRS (8PSK, 2-Slots) | 21.17                    | 21.18 | 21.21 | 22.00      | 15.04                | 15.05 | 15.08 | 15.87      |
| EGPRS (8PSK, 3-Slots) | 19.42                    | 19.42 | 19.50 | 20.00      | 15.00                | 15.00 | 15.08 | 15.58      |
| EGPRS (8PSK, 4-Slots) | 18.29                    | 18.46 | 18.33 | 19.50      | 15.11                | 15.28 | 15.15 | 16.32      |

| GSM-State6-Ant.1&4    |                          |       |       |            |                      |       |       |            |
|-----------------------|--------------------------|-------|-------|------------|----------------------|-------|-------|------------|
| GSM850 Band           | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged power |       |       | Tune-up    |
| Channel               | 128                      | 190   | 251   | Power(dBm) | 128                  | 190   | 251   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 32.70                    | 32.58 | 32.49 | 33.50      | 23.51                | 23.39 | 23.30 | 24.31      |
| GPRS (GMSK, 1-Slot)   | 32.64                    | 32.52 | 32.43 | 33.50      | 23.45                | 23.33 | 23.24 | 24.31      |
| GPRS (GMSK, 2-Slots)  | 31.94                    | 31.77 | 31.65 | 32.00      | 25.81                | 25.64 | 25.52 | 25.87      |
| GPRS (GMSK, 3-Slots)  | 29.95                    | 30.19 | 29.85 | 30.50      | 25.53                | 25.77 | 25.43 | 26.08      |
| GPRS (GMSK, 4-Slots)  | 28.98                    | 28.93 | 28.78 | 29.00      | 25.80                | 25.75 | 25.60 | 25.82      |
| EGPRS (8PSK, 1-Slot)  | 27.38                    | 27.18 | 26.72 | 28.50      | 18.19                | 17.99 | 17.53 | 19.31      |
| EGPRS (8PSK, 2-Slots) | 25.71                    | 25.70 | 25.53 | 26.50      | 19.58                | 19.57 | 19.40 | 20.37      |
| EGPRS (8PSK, 3-Slots) | 23.62                    | 23.51 | 23.33 | 24.50      | 19.20                | 19.09 | 18.91 | 20.08      |
| EGPRS (8PSK, 4-Slots) | 22.42                    | 22.25 | 22.17 | 23.50      | 19.24                | 19.07 | 18.99 | 20.32      |
| GSM1900 Band          | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged       |       |       | Tune-up    |
| Channel               | 512                      | 661   | 810   | Power(dBm) | 512                  | 661   | 810   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 22.91                    | 23.11 | 23.33 | 24.50      | 13.72                | 13.92 | 14.14 | 15.31      |
| GPRS (GMSK, 1-Slot)   | 22.90                    | 23.10 | 23.33 | 24.50      | 13.71                | 13.91 | 14.14 | 15.31      |
| GPRS (GMSK, 2-Slots)  | 21.86                    | 22.07 | 22.30 | 22.50      | 15.73                | 15.94 | 16.17 | 16.37      |
| GPRS (GMSK, 3-Slots)  | 20.29                    | 20.51 | 20.78 | 21.50      | 15.87                | 16.09 | 16.36 | 17.08      |
| GPRS (GMSK, 4-Slots)  | 19.20                    | 19.43 | 19.38 | 19.50      | 16.02                | 16.25 | 16.20 | 16.32      |
| EGPRS (8PSK, 1-Slot)  | 20.14                    | 20.27 | 20.38 | 22.00      | 10.95                | 11.08 | 11.19 | 12.81      |
| EGPRS (8PSK, 2-Slots) | 18.71                    | 18.42 | 18.06 | 19.00      | 12.58                | 12.29 | 11.93 | 12.87      |
| EGPRS (8PSK, 3-Slots) | 16.52                    | 16.61 | 16.50 | 17.00      | 12.10                | 12.19 | 12.08 | 12.58      |
| EGPRS (8PSK, 4-Slots) | 15.42                    | 15.42 | 15.40 | 16.50      | 12.24                | 12.24 | 12.22 | 13.32      |

## 8.1 GSM Output Power

| GSM-Full Power-Ant.0&3 |                          |       |       |            |                      |       |       |            |
|------------------------|--------------------------|-------|-------|------------|----------------------|-------|-------|------------|
| GSM850 Band            | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged power |       |       | Tune-up    |
| Channel                | 128                      | 190   | 251   | Power(dBm) | 128                  | 190   | 251   | Power(dBm) |
| GSM (GMSK, 1-Slot)     | 32.95                    | 32.99 | 33.02 | 33.50      | 23.76                | 23.80 | 23.83 | 24.31      |
| GPRS (GMSK, 1-Slot)    | 32.93                    | 32.96 | 32.99 | 33.50      | 23.74                | 23.77 | 23.80 | 24.31      |
| GPRS (GMSK, 2-Slots)   | 31.70                    | 31.71 | 31.73 | 32.00      | 25.57                | 25.58 | 25.60 | 25.87      |
| GPRS (GMSK, 3-Slots)   | 30.41                    | 30.44 | 30.38 | 30.50      | 25.99                | 26.02 | 25.96 | 26.08      |
| GPRS (GMSK, 4-Slots)   | 28.88                    | 28.86 | 28.87 | 29.00      | 25.70                | 25.68 | 25.69 | 25.82      |
| EGPRS (8PSK, 1-Slot)   | 27.31                    | 27.33 | 27.28 | 28.50      | 18.12                | 18.14 | 18.09 | 19.31      |
| EGPRS (8PSK, 2-Slots)  | 25.83                    | 25.90 | 25.83 | 26.50      | 19.70                | 19.77 | 19.70 | 20.37      |
| EGPRS (8PSK, 3-Slots)  | 23.64                    | 24.06 | 23.86 | 24.50      | 19.22                | 19.64 | 19.44 | 20.08      |
| EGPRS (8PSK, 4-Slots)  | 22.50                    | 22.64 | 22.70 | 23.50      | 19.32                | 19.46 | 19.52 | 20.32      |
| GSM1900 Band           | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged       |       |       | Tune-up    |
| Channel                | 512                      | 661   | 810   | Power(dBm) | 512                  | 661   | 810   | Power(dBm) |
| GSM (GMSK, 1-Slot)     | 30.27                    | 30.38 | 30.44 | 30.50      | 21.08                | 21.19 | 21.25 | 21.31      |
| GPRS (GMSK, 1-Slot)    | 30.23                    | 30.34 | 30.39 | 30.50      | 21.04                | 21.15 | 21.20 | 21.31      |
| GPRS (GMSK, 2-Slots)   | 28.38                    | 28.30 | 28.40 | 28.50      | 22.25                | 22.17 | 22.27 | 22.37      |
| GPRS (GMSK, 3-Slots)   | 27.41                    | 26.63 | 26.76 | 27.50      | 22.99                | 22.21 | 22.34 | 23.08      |
| GPRS (GMSK, 4-Slots)   | 25.22                    | 25.46 | 25.40 | 25.50      | 22.04                | 22.28 | 22.22 | 22.32      |
| EGPRS (8PSK, 1-Slot)   | 26.51                    | 26.56 | 26.52 | 28.00      | 17.32                | 17.37 | 17.33 | 18.81      |
| EGPRS (8PSK, 2-Slots)  | 24.96                    | 24.83 | 24.84 | 25.00      | 18.83                | 18.70 | 18.71 | 18.87      |
| EGPRS (8PSK, 3-Slots)  | 22.81                    | 22.95 | 22.89 | 23.00      | 18.39                | 18.53 | 18.47 | 18.58      |
| EGPRS (8PSK, 4-Slots)  | 22.35                    | 22.28 | 22.23 | 22.50      | 19.17                | 19.10 | 19.05 | 19.32      |

| GSM-State1&3-Ant.0&3  |                          |       |       |            |                      |       |       |            |
|-----------------------|--------------------------|-------|-------|------------|----------------------|-------|-------|------------|
| GSM850 Band           | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged power |       |       | Tune-up    |
| Channel               | 128                      | 190   | 251   | Power(dBm) | 128                  | 190   | 251   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 32.95                    | 32.99 | 33.02 | 33.50      | 23.76                | 23.80 | 23.83 | 24.31      |
| GPRS (GMSK, 1-Slot)   | 32.93                    | 32.96 | 32.99 | 33.50      | 23.74                | 23.77 | 23.80 | 24.31      |
| GPRS (GMSK, 2-Slots)  | 31.70                    | 31.71 | 31.73 | 32.00      | 25.57                | 25.58 | 25.60 | 25.87      |
| GPRS (GMSK, 3-Slots)  | 30.41                    | 30.44 | 30.38 | 30.50      | 25.99                | 26.02 | 25.96 | 26.08      |
| GPRS (GMSK, 4-Slots)  | 28.88                    | 28.86 | 28.87 | 29.00      | 25.70                | 25.68 | 25.69 | 25.82      |
| EGPRS (8PSK, 1-Slot)  | 27.31                    | 27.33 | 27.28 | 28.50      | 18.12                | 18.14 | 18.09 | 19.31      |
| EGPRS (8PSK, 2-Slots) | 25.83                    | 25.90 | 25.83 | 26.50      | 19.70                | 19.77 | 19.70 | 20.37      |
| EGPRS (8PSK, 3-Slots) | 23.64                    | 24.06 | 23.86 | 24.50      | 19.22                | 19.64 | 19.44 | 20.08      |
| EGPRS (8PSK, 4-Slots) | 22.50                    | 22.64 | 22.70 | 23.50      | 19.32                | 19.46 | 19.52 | 20.32      |
| GSM1900 Band          | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged       |       |       | Tune-up    |
| Channel               | 512                      | 661   | 810   | Power(dBm) | 512                  | 661   | 810   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 27.75                    | 27.96 | 28.07 | 29.50      | 18.56                | 18.77 | 18.88 | 20.31      |
| GPRS (GMSK, 1-Slot)   | 27.74                    | 27.94 | 28.06 | 29.50      | 18.55                | 18.75 | 18.87 | 20.31      |
| GPRS (GMSK, 2-Slots)  | 26.63                    | 26.86 | 26.99 | 27.50      | 20.50                | 20.73 | 20.86 | 21.37      |
| GPRS (GMSK, 3-Slots)  | 25.44                    | 25.25 | 25.01 | 26.50      | 20.59                | 20.83 | 21.02 | 22.08      |
| GPRS (GMSK, 4-Slots)  | 23.94                    | 24.16 | 24.37 | 24.50      | 20.76                | 20.98 | 21.19 | 21.32      |
| EGPRS (8PSK, 1-Slot)  | 25.24                    | 25.12 | 25.11 | 27.00      | 16.05                | 15.93 | 15.92 | 17.81      |
| EGPRS (8PSK, 2-Slots) | 23.00                    | 22.98 | 22.80 | 24.00      | 16.87                | 16.85 | 16.67 | 17.87      |
| EGPRS (8PSK, 3-Slots) | 21.31                    | 21.34 | 21.08 | 22.00      | 16.89                | 16.92 | 16.66 | 17.58      |
| EGPRS (8PSK, 4-Slots) | 20.02                    | 20.05 | 20.33 | 21.50      | 16.84                | 16.87 | 17.15 | 18.32      |



| GSM-State2&4&6-Ant.0&3 |                          |       |       |            |                      |       |       |            |
|------------------------|--------------------------|-------|-------|------------|----------------------|-------|-------|------------|
| GSM850 Band            | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged power |       |       | Tune-up    |
| Channel                | 128                      | 190   | 251   | Power(dBm) | 128                  | 190   | 251   | Power(dBm) |
| GSM (GMSK, 1-Slot)     | 32.95                    | 32.99 | 33.02 | 33.50      | 23.76                | 23.80 | 23.83 | 24.31      |
| GPRS (GMSK, 1-Slot)    | 32.93                    | 32.96 | 32.99 | 33.50      | 23.74                | 23.77 | 23.80 | 24.31      |
| GPRS (GMSK, 2-Slots)   | 31.70                    | 31.71 | 31.73 | 32.00      | 25.57                | 25.58 | 25.60 | 25.87      |
| GPRS (GMSK, 3-Slots)   | 30.41                    | 30.44 | 30.38 | 30.50      | 25.99                | 26.02 | 25.96 | 26.08      |
| GPRS (GMSK, 4-Slots)   | 28.88                    | 28.86 | 28.87 | 29.00      | 25.70                | 25.68 | 25.69 | 25.82      |
| EGPRS (8PSK, 1-Slot)   | 27.31                    | 27.33 | 27.28 | 28.50      | 18.12                | 18.14 | 18.09 | 19.31      |
| EGPRS (8PSK, 2-Slots)  | 25.83                    | 25.90 | 25.83 | 26.50      | 19.70                | 19.77 | 19.70 | 20.37      |
| EGPRS (8PSK, 3-Slots)  | 23.64                    | 24.06 | 23.86 | 24.50      | 19.22                | 19.64 | 19.44 | 20.08      |
| EGPRS (8PSK, 4-Slots)  | 22.50                    | 22.64 | 22.70 | 23.50      | 19.32                | 19.46 | 19.52 | 20.32      |
| GSM1900 Band           | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged       |       |       | Tune-up    |
| Channel                | 512                      | 661   | 810   | Power(dBm) | 512                  | 661   | 810   | Power(dBm) |
| GSM (GMSK, 1-Slot)     | 30.27                    | 30.38 | 30.44 | 30.50      | 21.08                | 21.19 | 21.25 | 21.31      |
| GPRS (GMSK, 1-Slot)    | 30.23                    | 30.34 | 30.39 | 30.50      | 21.04                | 21.15 | 21.20 | 21.31      |
| GPRS (GMSK, 2-Slots)   | 28.38                    | 28.30 | 28.40 | 28.50      | 22.25                | 22.17 | 22.27 | 22.37      |
| GPRS (GMSK, 3-Slots)   | 26.76                    | 26.63 | 26.41 | 27.50      | 22.99                | 22.21 | 22.34 | 23.08      |
| GPRS (GMSK, 4-Slots)   | 25.22                    | 25.46 | 25.40 | 25.50      | 22.04                | 22.28 | 22.22 | 22.32      |
| EGPRS (8PSK, 1-Slot)   | 26.51                    | 26.56 | 26.52 | 28.00      | 17.32                | 17.37 | 17.33 | 18.81      |
| EGPRS (8PSK, 2-Slots)  | 24.96                    | 24.83 | 24.84 | 25.00      | 18.83                | 18.70 | 18.71 | 18.87      |
| EGPRS (8PSK, 3-Slots)  | 22.81                    | 22.95 | 22.89 | 23.00      | 18.39                | 18.53 | 18.47 | 18.58      |
| EGPRS (8PSK, 4-Slots)  | 22.35                    | 22.28 | 22.23 | 22.50      | 19.17                | 19.10 | 19.05 | 19.32      |

| GSM-State5-Ant.0&3    |                          |       |       |            |                      |       |       |            |
|-----------------------|--------------------------|-------|-------|------------|----------------------|-------|-------|------------|
| GSM850 Band           | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged power |       |       | Tune-up    |
| Channel               | 128                      | 190   | 251   | Power(dBm) | 128                  | 190   | 251   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 32.95                    | 32.99 | 33.02 | 33.50      | 23.76                | 23.80 | 23.83 | 24.31      |
| GPRS (GMSK, 1-Slot)   | 32.93                    | 32.96 | 32.99 | 33.50      | 23.74                | 23.77 | 23.80 | 24.31      |
| GPRS (GMSK, 2-Slots)  | 31.70                    | 31.71 | 31.73 | 32.00      | 25.57                | 25.58 | 25.60 | 25.87      |
| GPRS (GMSK, 3-Slots)  | 30.41                    | 30.44 | 30.38 | 30.50      | 25.99                | 26.02 | 25.96 | 26.08      |
| GPRS (GMSK, 4-Slots)  | 28.88                    | 28.86 | 28.87 | 29.00      | 25.70                | 25.68 | 25.69 | 25.82      |
| EGPRS (8PSK, 1-Slot)  | 27.31                    | 27.33 | 27.28 | 28.50      | 18.12                | 18.14 | 18.09 | 19.31      |
| EGPRS (8PSK, 2-Slots) | 25.83                    | 25.90 | 25.83 | 26.50      | 19.70                | 19.77 | 19.70 | 20.37      |
| EGPRS (8PSK, 3-Slots) | 23.64                    | 24.06 | 23.86 | 24.50      | 19.22                | 19.64 | 19.44 | 20.08      |
| EGPRS (8PSK, 4-Slots) | 22.50                    | 22.64 | 22.70 | 23.50      | 19.32                | 19.46 | 19.52 | 20.32      |
| GSM1900 Band          | Burst Average Power(dBm) |       |       | Tune-up    | Frame-Averaged       |       |       | Tune-up    |
| Channel               | 512                      | 661   | 810   | Power(dBm) | 512                  | 661   | 810   | Power(dBm) |
| GSM (GMSK, 1-Slot)    | 26.05                    | 26.30 | 26.48 | 28.00      | 16.86                | 17.11 | 17.29 | 18.81      |
| GPRS (GMSK, 1-Slot)   | 26.05                    | 26.28 | 26.46 | 28.00      | 16.86                | 17.09 | 17.27 | 18.81      |
| GPRS (GMSK, 2-Slots)  | 25.03                    | 25.28 | 25.47 | 26.00      | 18.90                | 19.15 | 19.34 | 19.87      |
| GPRS (GMSK, 3-Slots)  | 23.92                    | 23.75 | 23.53 | 25.00      | 19.11                | 19.33 | 19.50 | 20.58      |
| GPRS (GMSK, 4-Slots)  | 22.51                    | 22.74 | 22.93 | 23.00      | 19.33                | 19.56 | 19.75 | 19.82      |
| EGPRS (8PSK, 1-Slot)  | 23.85                    | 23.66 | 23.55 | 25.50      | 14.66                | 14.47 | 14.36 | 16.31      |
| EGPRS (8PSK, 2-Slots) | 21.49                    | 21.49 | 21.21 | 22.50      | 15.36                | 15.36 | 15.08 | 16.37      |
| EGPRS (8PSK, 3-Slots) | 19.61                    | 19.65 | 19.67 | 20.50      | 15.19                | 15.23 | 15.25 | 16.08      |
| EGPRS (8PSK, 4-Slots) | 18.63                    | 18.62 | 18.53 | 20.00      | 15.45                | 15.44 | 15.35 | 16.82      |

## 8.2 WCDMA Output Power

| WCDMA-Full Power-Ant.1&4 |         |         |         |                          |
|--------------------------|---------|---------|---------|--------------------------|
| Band                     | Band 2  |         |         | Tune-up Limit Power(dBm) |
| Channel                  | 9262    | 9400    | 9538    |                          |
| Frequency                | 1852.40 | 1880.00 | 1907.60 |                          |
| AMR 12.2Kbps             | 22.75   | 22.88   | 22.82   | 24.00                    |
| RMC 12.2Kbps             | 22.86   | 22.90   | 22.90   | 24.00                    |
| HSDPA Subtest-1          | 21.87   | 21.84   | 22.04   | 23.00                    |
| HSDPA Subtest-2          | 21.93   | 21.84   | 21.98   | 23.00                    |
| HSDPA Subtest-3          | 21.57   | 21.39   | 21.29   | 23.00                    |
| HSDPA Subtest-4          | 21.50   | 21.36   | 21.29   | 23.00                    |
| DC-HSDPA Subtest-1       | 21.86   | 21.72   | 22.18   | 23.00                    |
| DC-HSDPA Subtest-2       | 22.08   | 21.82   | 21.93   | 23.00                    |
| DC-HSDPA Subtest-3       | 21.56   | 21.37   | 21.48   | 23.00                    |
| DC-HSDPA Subtest-4       | 21.33   | 21.45   | 21.24   | 23.00                    |
| HSUPA Subtest-1          | 20.31   | 20.31   | 20.42   | 22.00                    |
| HSUPA Subtest-2          | 18.78   | 18.89   | 18.79   | 20.00                    |
| HSUPA Subtest-3          | 19.83   | 19.83   | 19.82   | 21.00                    |
| HSUPA Subtest-4          | 19.29   | 19.30   | 19.15   | 21.00                    |
| HSUPA Subtest-5          | 21.99   | 21.80   | 21.63   | 23.00                    |
| HSPA+                    | 22.78   | 22.67   | 22.70   | 24.00                    |
| Band                     | Band 4  |         |         | Tune-up Limit Power(dBm) |
| Channel                  | 1312    | 1412    | 1513    |                          |
| Frequency                | 1712.40 | 1732.40 | 1752.60 |                          |
| AMR 12.2Kbps             | 22.80   | 22.89   | 22.76   | 24.00                    |
| RMC 12.2Kbps             | 22.91   | 22.90   | 22.86   | 24.00                    |
| HSDPA Subtest-1          | 21.74   | 21.85   | 21.83   | 23.00                    |
| HSDPA Subtest-2          | 21.86   | 21.90   | 21.98   | 23.00                    |
| HSDPA Subtest-3          | 21.36   | 21.42   | 21.35   | 23.00                    |
| HSDPA Subtest-4          | 21.30   | 21.38   | 21.19   | 23.00                    |
| DC-HSDPA Subtest-1       | 21.67   | 21.77   | 21.78   | 23.00                    |
| DC-HSDPA Subtest-2       | 21.93   | 21.94   | 21.96   | 23.00                    |
| DC-HSDPA Subtest-3       | 21.20   | 21.29   | 21.19   | 23.00                    |
| DC-HSDPA Subtest-4       | 21.30   | 21.21   | 21.27   | 23.00                    |
| HSUPA Subtest-1          | 20.48   | 20.33   | 20.43   | 22.00                    |
| HSUPA Subtest-2          | 18.70   | 18.75   | 18.71   | 20.00                    |
| HSUPA Subtest-3          | 19.69   | 19.84   | 19.78   | 21.00                    |
| HSUPA Subtest-4          | 19.39   | 19.34   | 19.14   | 21.00                    |
| HSUPA Subtest-5          | 21.98   | 21.86   | 21.77   | 22.00                    |
| HSPA+                    | 22.72   | 22.68   | 22.58   | 24.00                    |
| Band                     | Band 5  |         |         | Tune-up Limit Power(dBm) |
| Channel                  | 4132    | 4182    | 4233    |                          |
| Frequency                | 826.40  | 836.40  | 846.60  |                          |
| AMR 12.2Kbps             | 23.36   | 23.32   | 23.29   | 24.50                    |
| RMC 12.2Kbps             | 23.40   | 23.33   | 23.33   | 24.00                    |
| HSDPA Subtest-1          | 22.16   | 22.30   | 22.49   | 23.00                    |
| HSDPA Subtest-2          | 22.41   | 22.31   | 22.11   | 23.00                    |
| HSDPA Subtest-3          | 21.93   | 21.87   | 22.07   | 23.00                    |
| HSDPA Subtest-4          | 21.75   | 21.79   | 21.95   | 23.00                    |
| DC-HSDPA Subtest-1       | 22.10   | 22.26   | 22.34   | 23.00                    |
| DC-HSDPA Subtest-2       | 22.27   | 22.14   | 22.13   | 23.00                    |
| DC-HSDPA Subtest-3       | 22.00   | 21.72   | 21.90   | 23.00                    |
| DC-HSDPA Subtest-4       | 21.72   | 21.94   | 21.95   | 23.00                    |
| HSUPA Subtest-1          | 20.66   | 20.78   | 20.96   | 22.00                    |
| HSUPA Subtest-2          | 19.23   | 19.31   | 19.21   | 20.00                    |
| HSUPA Subtest-3          | 20.18   | 20.30   | 20.11   | 21.00                    |
| HSUPA Subtest-4          | 19.89   | 19.78   | 19.97   | 21.00                    |
| HSUPA Subtest-5          | 21.83   | 21.98   | 21.92   | 22.00                    |
| HSPA+                    | 23.04   | 23.21   | 23.10   | 24.50                    |

| <b>WCDMA-Power State1-Ant.1&amp;4</b> |         |         |         |                          |
|---------------------------------------|---------|---------|---------|--------------------------|
| Band                                  | Band 2  |         |         | Tune-up Limit Power(dBm) |
| Channel                               | 9262    | 9400    | 9538    |                          |
| Frequency                             | 1852.40 | 1880.00 | 1907.60 |                          |
| AMR 12.2Kbps                          | 21.03   | 21.06   | 21.05   | 22.50                    |
| RMC 12.2Kbps                          | 21.03   | 21.13   | 21.08   | 22.50                    |
| HSDPA Subtest-1                       | 19.89   | 20.02   | 20.11   | 21.50                    |
| HSDPA Subtest-2                       | 19.90   | 20.06   | 20.16   | 21.50                    |
| HSDPA Subtest-3                       | 19.73   | 19.57   | 19.52   | 21.50                    |
| HSDPA Subtest-4                       | 19.69   | 19.56   | 19.75   | 21.50                    |
| DC-HSDPA Subtest-1                    | 19.99   | 20.12   | 20.26   | 21.50                    |
| DC-HSDPA Subtest-2                    | 20.01   | 19.98   | 20.05   | 21.50                    |
| DC-HSDPA Subtest-3                    | 19.81   | 19.57   | 19.68   | 21.50                    |
| DC-HSDPA Subtest-4                    | 19.77   | 19.59   | 19.69   | 21.50                    |
| HSUPA Subtest-1                       | 18.70   | 18.79   | 18.73   | 20.50                    |
| HSUPA Subtest-2                       | 17.38   | 17.28   | 17.32   | 18.50                    |
| HSUPA Subtest-3                       | 17.95   | 18.04   | 17.88   | 19.50                    |
| HSUPA Subtest-4                       | 17.78   | 17.68   | 17.60   | 19.50                    |
| HSUPA Subtest-5                       | 19.99   | 20.03   | 19.95   | 21.50                    |
| HSPA+                                 | 21.01   | 20.98   | 21.01   | 22.50                    |
| Band                                  | Band 4  |         |         | Tune-up Limit Power(dBm) |
| Channel                               | 1312    | 1412    | 1513    |                          |
| Frequency                             | 1712.40 | 1732.40 | 1752.60 |                          |
| AMR 12.2Kbps                          | 21.59   | 21.55   | 21.36   | 23.00                    |
| RMC 12.2Kbps                          | 21.60   | 21.57   | 21.51   | 23.00                    |
| HSDPA Subtest-1                       | 20.57   | 20.54   | 20.52   | 22.00                    |
| HSDPA Subtest-2                       | 20.50   | 20.53   | 20.50   | 22.00                    |
| HSDPA Subtest-3                       | 20.03   | 20.09   | 20.20   | 22.00                    |
| HSDPA Subtest-4                       | 20.02   | 20.03   | 20.02   | 22.00                    |
| DC-HSDPA Subtest-1                    | 20.45   | 20.39   | 20.39   | 22.00                    |
| DC-HSDPA Subtest-2                    | 20.35   | 20.47   | 20.70   | 22.00                    |
| DC-HSDPA Subtest-3                    | 20.25   | 20.21   | 20.10   | 22.00                    |
| DC-HSDPA Subtest-4                    | 20.16   | 20.00   | 20.21   | 22.00                    |
| HSUPA Subtest-1                       | 19.09   | 19.27   | 19.18   | 21.00                    |
| HSUPA Subtest-2                       | 17.67   | 17.87   | 17.82   | 19.00                    |
| HSUPA Subtest-3                       | 18.38   | 18.52   | 18.34   | 20.00                    |
| HSUPA Subtest-4                       | 18.10   | 18.01   | 18.08   | 20.00                    |
| HSUPA Subtest-5                       | 20.74   | 20.56   | 20.62   | 21.00                    |
| HSPA+                                 | 21.87   | 21.78   | 21.69   | 23.00                    |
| Band                                  | Band 5  |         |         | Tune-up Limit Power(dBm) |
| Channel                               | 4132    | 4182    | 4233    |                          |
| Frequency                             | 826.40  | 836.40  | 846.60  |                          |
| AMR 12.2Kbps                          | 23.36   | 23.32   | 23.29   | 24.50                    |
| RMC 12.2Kbps                          | 23.40   | 23.33   | 23.33   | 24.00                    |
| HSDPA Subtest-1                       | 22.16   | 22.30   | 22.49   | 23.00                    |
| HSDPA Subtest-2                       | 22.41   | 22.31   | 22.11   | 23.00                    |
| HSDPA Subtest-3                       | 21.93   | 21.87   | 22.07   | 23.00                    |
| HSDPA Subtest-4                       | 21.75   | 21.79   | 21.95   | 23.00                    |
| DC-HSDPA Subtest-1                    | 22.10   | 22.26   | 22.34   | 23.00                    |
| DC-HSDPA Subtest-2                    | 22.27   | 22.14   | 22.13   | 23.00                    |
| DC-HSDPA Subtest-3                    | 22.00   | 21.72   | 21.90   | 23.00                    |
| DC-HSDPA Subtest-4                    | 21.72   | 21.94   | 21.95   | 23.00                    |
| HSUPA Subtest-1                       | 20.66   | 20.78   | 20.96   | 22.00                    |
| HSUPA Subtest-2                       | 19.23   | 19.31   | 19.21   | 20.00                    |
| HSUPA Subtest-3                       | 20.18   | 20.30   | 20.11   | 21.00                    |
| HSUPA Subtest-4                       | 19.89   | 19.78   | 19.97   | 21.00                    |
| HSUPA Subtest-5                       | 21.83   | 21.98   | 21.92   | 22.00                    |
| HSPA+                                 | 23.04   | 23.21   | 23.10   | 24.50                    |

| <b>WCDMA-Power State2&amp;4-Ant.1&amp;4</b> |         |         |         |                          |
|---|---------|---------|---------|--------------------------|
| Band  | Band 2  |         |         | Tune-up Limit Power(dBm) |
| Channel                                     | 9262    | 9400    | 9538    |                          |
| Frequency                                   | 1852.40 | 1880.00 | 1907.60 |                          |
| AMR 12.2Kbps                                | 19.30   | 19.50   | 19.43   | 21.00                    |
| RMC 12.2Kbps                                | 19.43   | 19.53   | 19.52   | 21.00                    |
| HSDPA Subtest-1                             | 18.26   | 18.46   | 18.34   | 20.00                    |
| HSDPA Subtest-2                             | 18.65   | 18.47   | 18.57   | 20.00                    |
| HSDPA Subtest-3                             | 18.06   | 18.07   | 18.15   | 20.00                    |
| HSDPA Subtest-4                             | 18.18   | 18.21   | 18.04   | 20.00                    |
| DC-HSDPA Subtest-1                          | 18.40   | 18.30   | 18.20   | 20.00                    |
| DC-HSDPA Subtest-2                          | 18.45   | 18.35   | 18.61   | 20.00                    |
| DC-HSDPA Subtest-3                          | 18.13   | 18.25   | 18.04   | 20.00                    |
| DC-HSDPA Subtest-4                          | 18.29   | 18.11   | 18.22   | 20.00                    |
| HSUPA Subtest-1                             | 17.14   | 17.19   | 17.10   | 19.00                    |
| HSUPA Subtest-2                             | 15.78   | 15.87   | 15.79   | 17.00                    |
| HSUPA Subtest-3                             | 16.53   | 16.67   | 16.51   | 18.00                    |
| HSUPA Subtest-4                             | 16.14   | 16.15   | 16.18   | 18.00                    |
| HSUPA Subtest-5                             | 18.63   | 18.50   | 18.49   | 20.00                    |
| HSPA+                                       | 19.21   | 19.30   | 19.42   | 21.00                    |
| Band  | Band 4  |         |         | Tune-up Limit Power(dBm) |
| Channel                                     | 1312    | 1412    | 1513    |                          |
| Frequency                                   | 1712.40 | 1732.40 | 1752.60 |                          |
| AMR 12.2Kbps                                | 16.57   | 16.48   | 16.54   | 18.00                    |
| RMC 12.2Kbps                                | 16.60   | 16.63   | 16.68   | 18.00                    |
| HSDPA Subtest-1                             | 15.75   | 15.61   | 15.52   | 17.00                    |
| HSDPA Subtest-2                             | 15.57   | 15.61   | 15.75   | 17.00                    |
| HSDPA Subtest-3                             | 15.13   | 15.14   | 15.29   | 17.00                    |
| HSDPA Subtest-4                             | 15.07   | 15.11   | 15.24   | 17.00                    |
| DC-HSDPA Subtest-1                          | 15.70   | 15.79   | 15.55   | 17.00                    |
| DC-HSDPA Subtest-2                          | 15.39   | 15.66   | 15.61   | 17.00                    |
| DC-HSDPA Subtest-3                          | 15.33   | 15.29   | 15.09   | 17.00                    |
| DC-HSDPA Subtest-4                          | 15.20   | 15.29   | 15.37   | 17.00                    |
| HSUPA Subtest-1                             | 14.26   | 14.06   | 14.26   | 16.00                    |
| HSUPA Subtest-2                             | 12.87   | 12.74   | 12.75   | 14.00                    |
| HSUPA Subtest-3                             | 13.75   | 13.60   | 13.56   | 15.00                    |
| HSUPA Subtest-4                             | 13.21   | 13.09   | 13.18   | 15.00                    |
| HSUPA Subtest-5                             | 15.55   | 15.61   | 15.49   | 16.00                    |
| HSPA+                                       | 16.38   | 16.42   | 16.42   | 18.00                    |
| Band  | Band 5  |         |         | Tune-up Limit Power(dBm) |
| Channel                                     | 4132    | 4182    | 4233    |                          |
| Frequency                                   | 826.40  | 836.40  | 846.60  |                          |
| AMR 12.2Kbps                                | 23.36   | 23.32   | 23.29   | 24.50                    |
| RMC 12.2Kbps                                | 23.40   | 23.33   | 23.33   | 24.00                    |
| HSDPA Subtest-1                             | 22.16   | 22.30   | 22.49   | 23.00                    |
| HSDPA Subtest-2                             | 22.41   | 22.31   | 22.11   | 23.00                    |
| HSDPA Subtest-3                             | 21.93   | 21.87   | 22.07   | 23.00                    |
| HSDPA Subtest-4                             | 21.75   | 21.79   | 21.95   | 23.00                    |
| DC-HSDPA Subtest-1                          | 22.10   | 22.26   | 22.34   | 23.00                    |
| DC-HSDPA Subtest-2                          | 22.27   | 22.14   | 22.13   | 23.00                    |
| DC-HSDPA Subtest-3                          | 22.00   | 21.72   | 21.90   | 23.00                    |
| DC-HSDPA Subtest-4                          | 21.72   | 21.94   | 21.95   | 23.00                    |
| HSUPA Subtest-1                             | 20.66   | 20.78   | 20.96   | 22.00                    |
| HSUPA Subtest-2                             | 19.23   | 19.31   | 19.21   | 20.00                    |
| HSUPA Subtest-3                             | 20.18   | 20.30   | 20.11   | 21.00                    |
| HSUPA Subtest-4                             | 19.89   | 19.78   | 19.97   | 21.00                    |
| HSUPA Subtest-5                             | 21.83   | 21.98   | 21.92   | 22.00                    |
| HSPA+                                       | 23.04   | 23.21   | 23.10   | 24.50                    |

| <b>WCDMA-Power State3&amp;5-Ant.1&amp;4</b> |         |         |         |                          |
|---|---------|---------|---------|--------------------------|
| Band  | Band 2  |         |         | Tune-up Limit Power(dBm) |
| Channel                                     | 9262    | 9400    | 9538    |                          |
| Frequency                                   | 1852.40 | 1880.00 | 1907.60 |                          |
| AMR 12.2Kbps                                | 21.03   | 21.06   | 21.05   | 22.50                    |
| RMC 12.2Kbps                                | 21.03   | 21.13   | 21.08   | 22.50                    |
| HSDPA Subtest-1                             | 19.89   | 20.02   | 20.11   | 21.50                    |
| HSDPA Subtest-2                             | 19.90   | 20.06   | 20.16   | 21.50                    |
| HSDPA Subtest-3                             | 19.73   | 19.57   | 19.52   | 21.50                    |
| HSDPA Subtest-4                             | 19.69   | 19.56   | 19.75   | 21.50                    |
| DC-HSDPA Subtest-1                          | 19.99   | 20.12   | 20.26   | 21.50                    |
| DC-HSDPA Subtest-2                          | 20.01   | 19.98   | 20.05   | 21.50                    |
| DC-HSDPA Subtest-3                          | 19.81   | 19.57   | 19.68   | 21.50                    |
| DC-HSDPA Subtest-4                          | 19.77   | 19.59   | 19.69   | 21.50                    |
| HSUPA Subtest-1                             | 18.70   | 18.79   | 18.73   | 20.50                    |
| HSUPA Subtest-2                             | 17.38   | 17.28   | 17.32   | 18.50                    |
| HSUPA Subtest-3                             | 17.95   | 18.04   | 17.88   | 19.50                    |
| HSUPA Subtest-4                             | 17.78   | 17.68   | 17.60   | 19.50                    |
| HSUPA Subtest-5                             | 19.99   | 20.03   | 19.95   | 21.50                    |
| HSPA+                                       | 21.01   | 20.98   | 21.01   | 22.50                    |
| Band  | Band 4  |         |         | Tune-up Limit Power(dBm) |
| Channel                                     | 1312    | 1412    | 1513    |                          |
| Frequency                                   | 1712.40 | 1732.40 | 1752.60 |                          |
| AMR 12.2Kbps                                | 19.50   | 19.48   | 19.51   | 21.00                    |
| RMC 12.2Kbps                                | 19.53   | 19.57   | 19.61   | 21.00                    |
| HSDPA Subtest-1                             | 18.49   | 18.55   | 18.62   | 20.00                    |
| HSDPA Subtest-2                             | 18.68   | 18.53   | 18.35   | 20.00                    |
| HSDPA Subtest-3                             | 18.29   | 18.10   | 18.23   | 20.00                    |
| HSDPA Subtest-4                             | 18.27   | 18.06   | 18.04   | 20.00                    |
| DC-HSDPA Subtest-1                          | 18.69   | 18.61   | 18.45   | 20.00                    |
| DC-HSDPA Subtest-2                          | 18.73   | 18.51   | 18.40   | 20.00                    |
| DC-HSDPA Subtest-3                          | 18.34   | 18.14   | 18.25   | 20.00                    |
| DC-HSDPA Subtest-4                          | 18.09   | 18.00   | 18.21   | 20.00                    |
| HSUPA Subtest-1                             | 17.15   | 17.00   | 17.20   | 19.00                    |
| HSUPA Subtest-2                             | 15.98   | 15.78   | 15.69   | 17.00                    |
| HSUPA Subtest-3                             | 16.79   | 16.76   | 16.79   | 18.00                    |
| HSUPA Subtest-4                             | 16.14   | 16.24   | 16.24   | 18.00                    |
| HSUPA Subtest-5                             | 18.46   | 18.56   | 18.67   | 19.00                    |
| HSPA+                                       | 19.23   | 19.37   | 19.32   | 21.00                    |
| Band  | Band 5  |         |         | Tune-up Limit Power(dBm) |
| Channel                                     | 4132    | 4182    | 4233    |                          |
| Frequency                                   | 826.40  | 836.40  | 846.60  |                          |
| AMR 12.2Kbps                                | 23.36   | 23.32   | 23.29   | 24.50                    |
| RMC 12.2Kbps                                | 23.40   | 23.33   | 23.33   | 24.00                    |
| HSDPA Subtest-1                             | 22.16   | 22.30   | 22.49   | 23.00                    |
| HSDPA Subtest-2                             | 22.41   | 22.31   | 22.11   | 23.00                    |
| HSDPA Subtest-3                             | 21.93   | 21.87   | 22.07   | 23.00                    |
| HSDPA Subtest-4                             | 21.75   | 21.79   | 21.95   | 23.00                    |
| DC-HSDPA Subtest-1                          | 22.10   | 22.26   | 22.34   | 23.00                    |
| DC-HSDPA Subtest-2                          | 22.27   | 22.14   | 22.13   | 23.00                    |
| DC-HSDPA Subtest-3                          | 22.00   | 21.72   | 21.90   | 23.00                    |
| DC-HSDPA Subtest-4                          | 21.72   | 21.94   | 21.95   | 23.00                    |
| HSUPA Subtest-1                             | 20.66   | 20.78   | 20.96   | 22.00                    |
| HSUPA Subtest-2                             | 19.23   | 19.31   | 19.21   | 20.00                    |
| HSUPA Subtest-3                             | 20.18   | 20.30   | 20.11   | 21.00                    |
| HSUPA Subtest-4                             | 19.89   | 19.78   | 19.97   | 21.00                    |
| HSUPA Subtest-5                             | 21.83   | 21.98   | 21.92   | 22.00                    |
| HSPA+                                       | 23.04   | 23.21   | 23.10   | 24.50                    |

| <b>WCDMA-Power State6-Ant.1&amp;4</b> |         |         |         |                          |
|---------------------------------------|---------|---------|---------|--------------------------|
| Band                                  | Band 2  |         |         | Tune-up Limit Power(dBm) |
| Channel                               | 9262    | 9400    | 9538    |                          |
| Frequency                             | 1852.40 | 1880.00 | 1907.60 |                          |
| AMR 12.2Kbps                          | 18.27   | 18.32   | 18.41   | 20.00                    |
| RMC 12.2Kbps                          | 18.42   | 18.49   | 18.46   | 20.00                    |
| HSDPA Subtest-1                       | 17.49   | 17.63   | 17.61   | 19.00                    |
| HSDPA Subtest-2                       | 17.51   | 17.63   | 17.59   | 19.00                    |
| HSDPA Subtest-3                       | 17.21   | 17.16   | 17.20   | 19.00                    |
| HSDPA Subtest-4                       | 17.08   | 17.15   | 17.23   | 19.00                    |
| DC-HSDPA Subtest-1                    | 17.64   | 17.71   | 17.76   | 19.00                    |
| DC-HSDPA Subtest-2                    | 17.68   | 17.64   | 17.40   | 19.00                    |
| DC-HSDPA Subtest-3                    | 17.27   | 17.36   | 17.12   | 19.00                    |
| DC-HSDPA Subtest-4                    | 17.26   | 17.03   | 17.41   | 19.00                    |
| HSUPA Subtest-1                       | 16.03   | 16.09   | 16.04   | 18.00                    |
| HSUPA Subtest-2                       | 14.34   | 14.35   | 14.54   | 16.00                    |
| HSUPA Subtest-3                       | 15.51   | 15.64   | 15.54   | 17.00                    |
| HSUPA Subtest-4                       | 15.26   | 15.09   | 15.23   | 17.00                    |
| HSUPA Subtest-5                       | 17.43   | 17.61   | 17.66   | 19.00                    |
| HSPA+                                 | 18.20   | 18.30   | 18.23   | 20.00                    |
| Band                                  | Band 4  |         |         | Tune-up Limit Power(dBm) |
| Channel                               | 1312    | 1412    | 1513    |                          |
| Frequency                             | 1712.40 | 1732.40 | 1752.60 |                          |
| AMR 12.2Kbps                          | 15.44   | 15.47   | 15.53   | 17.00                    |
| RMC 12.2Kbps                          | 15.54   | 15.58   | 15.66   | 17.00                    |
| HSDPA Subtest-1                       | 14.39   | 14.57   | 14.75   | 16.00                    |
| HSDPA Subtest-2                       | 14.68   | 14.57   | 14.42   | 16.00                    |
| HSDPA Subtest-3                       | 14.23   | 14.10   | 14.08   | 16.00                    |
| HSDPA Subtest-4                       | 14.09   | 14.08   | 14.28   | 16.00                    |
| DC-HSDPA Subtest-1                    | 14.46   | 14.64   | 14.59   | 16.00                    |
| DC-HSDPA Subtest-2                    | 14.81   | 14.49   | 14.53   | 16.00                    |
| DC-HSDPA Subtest-3                    | 14.25   | 14.23   | 14.23   | 16.00                    |
| DC-HSDPA Subtest-4                    | 14.24   | 14.03   | 14.22   | 16.00                    |
| HSUPA Subtest-1                       | 13.24   | 13.01   | 13.17   | 15.00                    |
| HSUPA Subtest-2                       | 11.98   | 11.78   | 11.87   | 13.00                    |
| HSUPA Subtest-3                       | 12.63   | 12.56   | 12.62   | 14.00                    |
| HSUPA Subtest-4                       | 12.06   | 12.03   | 12.13   | 14.00                    |
| HSUPA Subtest-5                       | 14.57   | 14.58   | 14.66   | 15.00                    |
| HSPA+                                 | 15.34   | 15.43   | 15.44   | 17.00                    |
| Band                                  | Band 5  |         |         | Tune-up Limit Power(dBm) |
| Channel                               | 4132    | 4182    | 4233    |                          |
| Frequency                             | 826.40  | 836.40  | 846.60  |                          |
| AMR 12.2Kbps                          | 23.36   | 23.32   | 23.29   | 24.50                    |
| RMC 12.2Kbps                          | 23.40   | 23.33   | 23.33   | 24.00                    |
| HSDPA Subtest-1                       | 22.16   | 22.30   | 22.49   | 23.00                    |
| HSDPA Subtest-2                       | 22.41   | 22.31   | 22.11   | 23.00                    |
| HSDPA Subtest-3                       | 21.93   | 21.87   | 22.07   | 23.00                    |
| HSDPA Subtest-4                       | 21.75   | 21.79   | 21.95   | 23.00                    |
| DC-HSDPA Subtest-1                    | 22.10   | 22.26   | 22.34   | 23.00                    |
| DC-HSDPA Subtest-2                    | 22.27   | 22.14   | 22.13   | 23.00                    |
| DC-HSDPA Subtest-3                    | 22.00   | 21.72   | 21.90   | 23.00                    |
| DC-HSDPA Subtest-4                    | 21.72   | 21.94   | 21.95   | 23.00                    |
| HSUPA Subtest-1                       | 20.66   | 20.78   | 20.96   | 22.00                    |
| HSUPA Subtest-2                       | 19.23   | 19.31   | 19.21   | 20.00                    |
| HSUPA Subtest-3                       | 20.18   | 20.30   | 20.11   | 21.00                    |
| HSUPA Subtest-4                       | 19.89   | 19.78   | 19.97   | 21.00                    |
| HSUPA Subtest-5                       | 21.83   | 21.98   | 21.92   | 22.00                    |
| HSPA+                                 | 23.04   | 23.21   | 23.10   | 24.50                    |

## 8.2 WCDMA Output Power

| WCDMA-Full Power-Ant.0&3 |         |         |         |                             |
|--------------------------|---------|---------|---------|-----------------------------|
| Band                     | Band 2  |         |         | Tune-up Limit<br>Power(dBm) |
| Channel                  | 9262    | 9400    | 9538    |                             |
| Frequency                | 1852.40 | 1880.00 | 1907.60 |                             |
| AMR 12.2Kbps             | 23.14   | 23.37   | 23.16   | 24.00                       |
| RMC 12.2Kbps             | 23.23   | 23.37   | 23.29   | 24.00                       |
| HSDPA Subtest-1          | 22.10   | 22.24   | 22.25   | 23.00                       |
| HSDPA Subtest-2          | 22.41   | 22.25   | 22.05   | 23.00                       |
| HSDPA Subtest-3          | 21.83   | 21.81   | 21.95   | 23.00                       |
| HSDPA Subtest-4          | 21.73   | 21.79   | 21.60   | 23.00                       |
| DC-HSDPA Subtest-1       | 22.20   | 22.31   | 22.22   | 23.00                       |
| DC-HSDPA Subtest-2       | 22.35   | 22.41   | 22.07   | 23.00                       |
| DC-HSDPA Subtest-3       | 21.85   | 21.69   | 21.86   | 23.00                       |
| DC-HSDPA Subtest-4       | 21.60   | 21.90   | 21.80   | 23.00                       |
| HSUPA Subtest-1          | 20.72   | 20.73   | 20.77   | 22.00                       |
| HSUPA Subtest-2          | 19.10   | 19.01   | 18.84   | 20.00                       |
| HSUPA Subtest-3          | 20.19   | 20.26   | 20.38   | 21.00                       |
| HSUPA Subtest-4          | 19.83   | 19.75   | 19.79   | 21.00                       |
| HSUPA Subtest-5          | 22.41   | 22.24   | 22.38   | 23.00                       |
| HSPA+                    | 22.94   | 22.94   | 22.98   | 24.00                       |
| Band                     | Band 4  |         |         | Tune-up Limit<br>Power(dBm) |
| Channel                  | 1312    | 1412    | 1513    |                             |
| Frequency                | 1712.40 | 1732.40 | 1752.60 |                             |
| AMR 12.2Kbps             | 23.26   | 23.20   | 23.13   | 24.00                       |
| RMC 12.2Kbps             | 23.29   | 23.20   | 23.24   | 24.00                       |
| HSDPA Subtest-1          | 22.05   | 22.22   | 22.10   | 23.00                       |
| HSDPA Subtest-2          | 22.31   | 22.24   | 22.22   | 23.00                       |
| HSDPA Subtest-3          | 21.93   | 21.79   | 21.75   | 23.00                       |
| HSDPA Subtest-4          | 21.81   | 21.75   | 21.82   | 23.00                       |
| DC-HSDPA Subtest-1       | 22.07   | 22.16   | 22.10   | 23.00                       |
| DC-HSDPA Subtest-2       | 22.36   | 22.36   | 22.10   | 23.00                       |
| DC-HSDPA Subtest-3       | 21.90   | 21.84   | 21.94   | 23.00                       |
| DC-HSDPA Subtest-4       | 21.92   | 21.87   | 21.94   | 23.00                       |
| HSUPA Subtest-1          | 20.50   | 20.69   | 20.70   | 22.00                       |
| HSUPA Subtest-2          | 18.95   | 18.82   | 19.18   | 20.00                       |
| HSUPA Subtest-3          | 20.31   | 20.22   | 20.21   | 21.00                       |
| HSUPA Subtest-4          | 19.70   | 19.72   | 19.64   | 21.00                       |
| HSUPA Subtest-5          | 21.86   | 21.93   | 21.78   | 22.00                       |
| HSPA+                    | 23.18   | 22.85   | 23.08   | 24.00                       |
| Band                     | Band 5  |         |         | Tune-up Limit<br>Power(dBm) |
| Channel                  | 4132    | 4182    | 4233    |                             |
| Frequency                | 826.40  | 836.40  | 846.60  |                             |
| AMR 12.2Kbps             | 23.46   | 23.64   | 23.63   | 24.50                       |
| RMC 12.2Kbps             | 23.60   | 23.68   | 23.63   | 24.00                       |
| HSDPA Subtest-1          | 22.43   | 22.61   | 22.56   | 23.00                       |
| HSDPA Subtest-2          | 22.65   | 22.62   | 22.46   | 23.00                       |
| HSDPA Subtest-3          | 22.04   | 22.14   | 22.22   | 23.00                       |
| HSDPA Subtest-4          | 22.08   | 22.08   | 21.98   | 23.00                       |
| DC-HSDPA Subtest-1       | 22.30   | 22.69   | 22.76   | 23.00                       |
| DC-HSDPA Subtest-2       | 22.67   | 22.77   | 22.65   | 23.00                       |
| DC-HSDPA Subtest-3       | 21.86   | 22.32   | 22.39   | 23.00                       |
| DC-HSDPA Subtest-4       | 22.10   | 22.18   | 22.14   | 23.00                       |
| HSUPA Subtest-1          | 21.15   | 21.04   | 20.94   | 22.00                       |
| HSUPA Subtest-2          | 18.82   | 18.81   | 18.95   | 20.00                       |
| HSUPA Subtest-3          | 20.70   | 20.62   | 20.44   | 21.00                       |
| HSUPA Subtest-4          | 20.10   | 20.09   | 20.01   | 21.00                       |
| HSUPA Subtest-5          | 21.87   | 21.80   | 21.85   | 22.00                       |
| HSPA+                    | 23.70   | 23.40   | 23.57   | 24.50                       |



| <b>WCDMA-Power State1&amp;3-Ant.0&amp;3</b> |         |         |         |                          |
|---|---------|---------|---------|--------------------------|
| Band  | Band 2  |         |         | Tune-up Limit Power(dBm) |
| Channel                                     | 9262    | 9400    | 9538    |                          |
| Frequency                                   | 1852.40 | 1880.00 | 1907.60 |                          |
| AMR 12.2Kbps                                | 22.47   | 22.62   | 22.61   | 23.50                    |
| RMC 12.2Kbps                                | 22.54   | 22.68   | 22.63   | 23.50                    |
| HSDPA Subtest-1                             | 21.64   | 21.59   | 21.75   | 22.50                    |
| HSDPA Subtest-2                             | 21.46   | 21.60   | 21.59   | 22.50                    |
| HSDPA Subtest-3                             | 21.00   | 21.14   | 21.24   | 22.50                    |
| HSDPA Subtest-4                             | 21.01   | 21.12   | 21.10   | 22.50                    |
| DC-HSDPA Subtest-1                          | 21.71   | 21.77   | 21.57   | 22.50                    |
| DC-HSDPA Subtest-2                          | 21.29   | 21.54   | 21.39   | 22.50                    |
| DC-HSDPA Subtest-3                          | 20.84   | 21.22   | 21.38   | 22.50                    |
| DC-HSDPA Subtest-4                          | 20.95   | 21.21   | 21.01   | 22.50                    |
| HSUPA Subtest-1                             | 20.04   | 20.03   | 19.88   | 21.50                    |
| HSUPA Subtest-2                             | 18.69   | 18.38   | 18.51   | 19.50                    |
| HSUPA Subtest-3                             | 19.53   | 19.59   | 19.74   | 20.50                    |
| HSUPA Subtest-4                             | 19.05   | 19.07   | 19.12   | 20.50                    |
| HSUPA Subtest-5                             | 21.56   | 21.60   | 21.67   | 22.50                    |
| HSPA+                                       | 22.43   | 22.56   | 22.61   | 23.50                    |
| Band  | Band 4  |         |         | Tune-up Limit Power(dBm) |
| Channel                                     | 1312    | 1412    | 1513    |                          |
| Frequency                                   | 1712.40 | 1732.40 | 1752.60 |                          |
| AMR 12.2Kbps                                | 21.07   | 20.98   | 20.96   | 22.00                    |
| RMC 12.2Kbps                                | 21.11   | 21.08   | 20.98   | 22.00                    |
| HSDPA Subtest-1                             | 19.84   | 20.02   | 19.83   | 21.00                    |
| HSDPA Subtest-2                             | 19.94   | 20.06   | 20.16   | 21.00                    |
| HSDPA Subtest-3                             | 19.76   | 19.60   | 19.45   | 21.00                    |
| HSDPA Subtest-4                             | 19.73   | 19.56   | 19.71   | 21.00                    |
| DC-HSDPA Subtest-1                          | 19.88   | 19.83   | 19.85   | 21.00                    |
| DC-HSDPA Subtest-2                          | 19.84   | 19.90   | 20.02   | 21.00                    |
| DC-HSDPA Subtest-3                          | 19.96   | 19.66   | 19.48   | 21.00                    |
| DC-HSDPA Subtest-4                          | 19.71   | 19.56   | 19.88   | 21.00                    |
| HSUPA Subtest-1                             | 18.68   | 18.49   | 18.51   | 20.00                    |
| HSUPA Subtest-2                             | 17.19   | 16.89   | 16.80   | 18.00                    |
| HSUPA Subtest-3                             | 18.04   | 18.21   | 18.19   | 19.00                    |
| HSUPA Subtest-4                             | 17.63   | 17.51   | 17.46   | 19.00                    |
| HSUPA Subtest-5                             | 19.88   | 19.73   | 19.95   | 20.00                    |
| HSPA+                                       | 20.91   | 21.03   | 20.92   | 22.00                    |
| Band  | Band 5  |         |         | Tune-up Limit Power(dBm) |
| Channel                                     | 4132    | 4182    | 4233    |                          |
| Frequency                                   | 826.40  | 836.40  | 846.60  |                          |
| AMR 12.2Kbps                                | 23.46   | 23.64   | 23.63   | 24.50                    |
| RMC 12.2Kbps                                | 23.60   | 23.68   | 23.63   | 24.00                    |
| HSDPA Subtest-1                             | 22.43   | 22.61   | 22.56   | 23.00                    |
| HSDPA Subtest-2                             | 22.65   | 22.62   | 22.46   | 23.00                    |
| HSDPA Subtest-3                             | 22.04   | 22.14   | 22.22   | 23.00                    |
| HSDPA Subtest-4                             | 22.08   | 22.08   | 21.98   | 23.00                    |
| DC-HSDPA Subtest-1                          | 22.30   | 22.69   | 22.76   | 23.00                    |
| DC-HSDPA Subtest-2                          | 22.67   | 22.77   | 22.65   | 23.00                    |
| DC-HSDPA Subtest-3                          | 21.86   | 22.32   | 22.39   | 23.00                    |
| DC-HSDPA Subtest-4                          | 22.10   | 22.18   | 22.14   | 23.00                    |
| HSUPA Subtest-1                             | 21.15   | 21.04   | 20.94   | 22.00                    |
| HSUPA Subtest-2                             | 18.82   | 18.81   | 18.95   | 20.00                    |
| HSUPA Subtest-3                             | 20.70   | 20.62   | 20.44   | 21.00                    |
| HSUPA Subtest-4                             | 20.10   | 20.09   | 20.01   | 21.00                    |
| HSUPA Subtest-5                             | 21.87   | 21.80   | 21.85   | 22.00                    |
| HSPA+                                       | 23.70   | 23.40   | 23.57   | 24.50                    |

| <b>WCDMA-Power State2&amp;4&amp;6-Ant.0&amp;3</b> |         |         |         |                          |
|---|---------|---------|---------|--------------------------|
| Band  | Band 2  |         |         | Tune-up Limit Power(dBm) |
| Channel   | 9262    | 9400    | 9538    |                          |
| Frequency   | 1852.40 | 1880.00 | 1907.60 |                          |
| AMR 12.2Kbps                                      | 23.14   | 23.37   | 23.16   | 24.00                    |
| RMC 12.2Kbps                                      | 23.23   | 23.37   | 23.29   | 24.00                    |
| HSDPA Subtest-1                                   | 22.10   | 22.24   | 22.25   | 23.00                    |
| HSDPA Subtest-2                                   | 22.41   | 22.25   | 22.05   | 23.00                    |
| HSDPA Subtest-3                                   | 21.83   | 21.81   | 21.95   | 23.00                    |
| HSDPA Subtest-4                                   | 21.73   | 21.79   | 21.60   | 23.00                    |
| DC-HSDPA Subtest-1                                | 22.20   | 22.31   | 22.22   | 23.00                    |
| DC-HSDPA Subtest-2                                | 22.35   | 22.41   | 22.07   | 23.00                    |
| DC-HSDPA Subtest-3                                | 21.85   | 21.69   | 21.86   | 23.00                    |
| DC-HSDPA Subtest-4                                | 21.60   | 21.90   | 21.80   | 23.00                    |
| HSUPA Subtest-1                                   | 20.72   | 20.73   | 20.77   | 22.00                    |
| HSUPA Subtest-2                                   | 19.10   | 19.01   | 18.84   | 20.00                    |
| HSUPA Subtest-3                                   | 20.19   | 20.26   | 20.38   | 21.00                    |
| HSUPA Subtest-4                                   | 19.83   | 19.75   | 19.79   | 21.00                    |
| HSUPA Subtest-5                                   | 22.41   | 22.24   | 22.38   | 23.00                    |
| HSPA+   | 22.94   | 22.94   | 22.98   | 24.00                    |
| Band  | Band 4  |         |         | Tune-up Limit Power(dBm) |
| Channel   | 1312    | 1412    | 1513    |                          |
| Frequency   | 1712.40 | 1732.40 | 1752.60 |                          |
| AMR 12.2Kbps                                      | 23.26   | 23.20   | 23.13   | 24.00                    |
| RMC 12.2Kbps                                      | 23.29   | 23.20   | 23.24   | 24.00                    |
| HSDPA Subtest-1                                   | 22.05   | 22.22   | 22.10   | 23.00                    |
| HSDPA Subtest-2                                   | 22.31   | 22.24   | 22.22   | 23.00                    |
| HSDPA Subtest-3                                   | 21.93   | 21.79   | 21.75   | 23.00                    |
| HSDPA Subtest-4                                   | 21.81   | 21.75   | 21.82   | 23.00                    |
| DC-HSDPA Subtest-1                                | 22.07   | 22.16   | 22.10   | 23.00                    |
| DC-HSDPA Subtest-2                                | 22.36   | 22.36   | 22.10   | 23.00                    |
| DC-HSDPA Subtest-3                                | 21.90   | 21.84   | 21.94   | 23.00                    |
| DC-HSDPA Subtest-4                                | 21.92   | 21.87   | 21.94   | 23.00                    |
| HSUPA Subtest-1                                   | 20.50   | 20.69   | 20.70   | 22.00                    |
| HSUPA Subtest-2                                   | 18.95   | 18.82   | 19.18   | 20.00                    |
| HSUPA Subtest-3                                   | 20.31   | 20.22   | 20.21   | 21.00                    |
| HSUPA Subtest-4                                   | 19.70   | 19.72   | 19.64   | 21.00                    |
| HSUPA Subtest-5                                   | 21.86   | 21.93   | 21.78   | 22.00                    |
| HSPA+   | 23.18   | 22.85   | 23.08   | 24.00                    |
| Band  | Band 5  |         |         | Tune-up Limit Power(dBm) |
| Channel   | 4132    | 4182    | 4233    |                          |
| Frequency   | 826.40  | 836.40  | 846.60  |                          |
| AMR 12.2Kbps                                      | 23.46   | 23.64   | 23.63   | 24.50                    |
| RMC 12.2Kbps                                      | 23.60   | 23.68   | 23.63   | 24.00                    |
| HSDPA Subtest-1                                   | 22.43   | 22.61   | 22.56   | 23.00                    |
| HSDPA Subtest-2                                   | 22.65   | 22.62   | 22.46   | 23.00                    |
| HSDPA Subtest-3                                   | 22.04   | 22.14   | 22.22   | 23.00                    |
| HSDPA Subtest-4                                   | 22.08   | 22.08   | 21.98   | 23.00                    |
| DC-HSDPA Subtest-1                                | 22.30   | 22.69   | 22.76   | 23.00                    |
| DC-HSDPA Subtest-2                                | 22.67   | 22.77   | 22.65   | 23.00                    |
| DC-HSDPA Subtest-3                                | 21.86   | 22.32   | 22.39   | 23.00                    |
| DC-HSDPA Subtest-4                                | 22.10   | 22.18   | 22.14   | 23.00                    |
| HSUPA Subtest-1                                   | 21.15   | 21.04   | 20.94   | 22.00                    |
| HSUPA Subtest-2                                   | 18.82   | 18.81   | 18.95   | 20.00                    |
| HSUPA Subtest-3                                   | 20.70   | 20.62   | 20.44   | 21.00                    |
| HSUPA Subtest-4                                   | 20.10   | 20.09   | 20.01   | 21.00                    |
| HSUPA Subtest-5                                   | 21.87   | 21.80   | 21.85   | 22.00                    |
| HSPA+   | 23.70   | 23.40   | 23.57   | 24.50                    |

| <b>WCDMA-Power State5-Ant.0&amp;3</b> |         |         |         |                          |
|---------------------------------------|---------|---------|---------|--------------------------|
| Band                                  | Band 2  |         |         | Tune-up Limit Power(dBm) |
| Channel                               | 9262    | 9400    | 9538    |                          |
| Frequency                             | 1852.40 | 1880.00 | 1907.60 |                          |
| AMR 12.2Kbps                          | 20.93   | 21.16   | 20.97   | 22.00                    |
| RMC 12.2Kbps                          | 21.04   | 21.16   | 21.09   | 22.00                    |
| HSDPA Subtest-1                       | 20.15   | 20.06   | 20.24   | 21.00                    |
| HSDPA Subtest-2                       | 19.91   | 20.08   | 19.94   | 21.00                    |
| HSDPA Subtest-3                       | 19.56   | 19.63   | 19.63   | 21.00                    |
| HSDPA Subtest-4                       | 19.47   | 19.57   | 19.63   | 21.00                    |
| DC-HSDPA Subtest-1                    | 20.27   | 19.86   | 20.30   | 21.00                    |
| DC-HSDPA Subtest-2                    | 19.82   | 20.13   | 19.91   | 21.00                    |
| DC-HSDPA Subtest-3                    | 19.68   | 19.73   | 19.45   | 21.00                    |
| DC-HSDPA Subtest-4                    | 19.47   | 19.62   | 19.83   | 21.00                    |
| HSUPA Subtest-1                       | 18.74   | 18.54   | 18.45   | 20.00                    |
| HSUPA Subtest-2                       | 16.94   | 16.93   | 17.07   | 18.00                    |
| HSUPA Subtest-3                       | 18.10   | 18.25   | 18.36   | 19.00                    |
| HSUPA Subtest-4                       | 17.60   | 17.52   | 17.45   | 19.00                    |
| HSUPA Subtest-5                       | 19.97   | 20.08   | 20.19   | 21.00                    |
| HSPA+                                 | 21.17   | 20.90   | 20.94   | 22.00                    |
| Band                                  | Band 4  |         |         | Tune-up Limit Power(dBm) |
| Channel                               | 1312    | 1412    | 1513    |                          |
| Frequency                             | 1712.40 | 1732.40 | 1752.60 |                          |
| AMR 12.2Kbps                          | 19.03   | 18.88   | 18.93   | 20.00                    |
| RMC 12.2Kbps                          | 19.05   | 19.00   | 18.96   | 20.00                    |
| HSDPA Subtest-1                       | 18.02   | 18.17   | 18.17   | 19.00                    |
| HSDPA Subtest-2                       | 18.12   | 18.20   | 18.29   | 19.00                    |
| HSDPA Subtest-3                       | 17.77   | 17.71   | 17.51   | 19.00                    |
| HSDPA Subtest-4                       | 17.86   | 17.69   | 17.87   | 19.00                    |
| DC-HSDPA Subtest-1                    | 17.90   | 17.98   | 18.00   | 19.00                    |
| DC-HSDPA Subtest-2                    | 18.20   | 18.00   | 18.35   | 19.00                    |
| DC-HSDPA Subtest-3                    | 17.72   | 17.73   | 17.70   | 19.00                    |
| DC-HSDPA Subtest-4                    | 17.99   | 17.88   | 17.85   | 19.00                    |
| HSUPA Subtest-1                       | 16.85   | 16.65   | 16.81   | 18.00                    |
| HSUPA Subtest-2                       | 15.01   | 14.91   | 15.06   | 16.00                    |
| HSUPA Subtest-3                       | 16.17   | 16.18   | 16.09   | 17.00                    |
| HSUPA Subtest-4                       | 15.65   | 15.69   | 15.61   | 17.00                    |
| HSUPA Subtest-5                       | 17.92   | 17.88   | 17.99   | 18.00                    |
| HSPA+                                 | 19.09   | 18.94   | 19.11   | 20.00                    |
| Band                                  | Band 5  |         |         | Tune-up Limit Power(dBm) |
| Channel                               | 4132    | 4182    | 4233    |                          |
| Frequency                             | 826.40  | 836.40  | 846.60  |                          |
| AMR 12.2Kbps                          | 23.46   | 23.64   | 23.63   | 24.50                    |
| RMC 12.2Kbps                          | 23.60   | 23.68   | 23.63   | 24.00                    |
| HSDPA Subtest-1                       | 22.43   | 22.61   | 22.56   | 23.00                    |
| HSDPA Subtest-2                       | 22.65   | 22.62   | 22.46   | 23.00                    |
| HSDPA Subtest-3                       | 22.04   | 22.14   | 22.22   | 23.00                    |
| HSDPA Subtest-4                       | 22.08   | 22.08   | 21.98   | 23.00                    |
| DC-HSDPA Subtest-1                    | 22.30   | 22.69   | 22.76   | 23.00                    |
| DC-HSDPA Subtest-2                    | 22.67   | 22.77   | 22.65   | 23.00                    |
| DC-HSDPA Subtest-3                    | 21.86   | 22.32   | 22.39   | 23.00                    |
| DC-HSDPA Subtest-4                    | 22.10   | 22.18   | 22.14   | 23.00                    |
| HSUPA Subtest-1                       | 21.15   | 21.04   | 20.94   | 22.00                    |
| HSUPA Subtest-2                       | 18.82   | 18.81   | 18.95   | 20.00                    |
| HSUPA Subtest-3                       | 20.70   | 20.62   | 20.44   | 21.00                    |
| HSUPA Subtest-4                       | 20.10   | 20.09   | 20.01   | 21.00                    |
| HSUPA Subtest-5                       | 21.87   | 21.80   | 21.85   | 22.00                    |
| HSPA+                                 | 23.70   | 23.40   | 23.57   | 24.50                    |

### 8.3.1 LTE Band2 Output Power

| LTE B2-Full Power -Ant.4 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 18607      | 18900 | 19193 | Tune-up power(dBm) |                    |
| 1.4                      | 1               | LOW       | QPSK       | 22.90      | 22.85 | 22.83 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 22.87      | 22.85 | 22.84 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.90      | 22.88 | 22.90 | 23.50              |                    |
|                          | 3               | LOW       | QPSK       | 22.92      | 22.89 | 22.99 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 22.95      | 22.88 | 23.02 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.92      | 22.87 | 22.99 | 23.50              |                    |
|                          | 6               | LOW       | QPSK       | 21.97      | 21.98 | 21.97 | 22.50              |                    |
|                          | 1.4             | 1         | LOW        | Q16        | 22.08 | 22.32 | 21.90              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.11 | 22.26 | 21.92              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.12      | 22.29 | 21.95 | 22.50              |                    |
| 3                        |                 | LOW       | Q16        | 22.00      | 22.15 | 22.10 | 22.50              |                    |
|                          |                 | MID       | Q16        | 22.00      | 22.08 | 22.10 | 22.50              |                    |
|                          |                 | HIGH      | Q16        | 22.00      | 22.08 | 22.08 | 22.50              |                    |
| 6                        |                 | LOW       | Q16        | 21.10      | 20.79 | 21.11 | 21.50              |                    |
| 1.4                      |                 | 1         | LOW        | 64QAM      | 21.08 | 21.40 | 20.77              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.11 | 21.26 | 20.87              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.16      | 21.23 | 21.03 | 21.50              |                    |
|                          | 3               | LOW       | 64QAM      | 20.97      | 21.25 | 21.11 | 21.50              |                    |
|                          |                 | MID       | 64QAM      | 21.08      | 21.04 | 21.06 | 21.50              |                    |
|                          |                 | HIGH      | 64QAM      | 21.02      | 21.07 | 21.20 | 21.50              |                    |
|                          | 6               | LOW       | 64QAM      | 20.00      | 19.90 | 20.01 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18615 | 18900 | 19185              | Tune-up power(dBm) |
|                          | 3               | 1         | LOW        | QPSK       | 22.94 | 22.87 | 22.91              | 23.50              |
| MID                      |                 |           | QPSK       | 22.74      | 22.89 | 23.04 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 22.76      | 22.77 | 22.72 | 23.50              |                    |
| 8                        |                 | LOW       | QPSK       | 21.77      | 22.15 | 22.13 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.08      | 22.08 | 22.07 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.10      | 21.85 | 21.89 | 22.50              |                    |
| 15                       |                 | LOW       | QPSK       | 22.01      | 21.85 | 22.06 | 22.50              |                    |
| 3                        |                 | 1         | LOW        | Q16        | 22.35 | 22.06 | 22.21              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.32 | 22.46 | 22.32              | 22.50              |
|                          | HIGH            |           | Q16        | 22.38      | 22.29 | 22.17 | 22.50              |                    |
|                          | 8               | LOW       | Q16        | 20.81      | 20.92 | 20.91 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.10      | 21.02 | 20.96 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.88      | 20.72 | 20.67 | 21.50              |                    |
|                          | 15              | LOW       | Q16        | 20.90      | 20.80 | 20.91 | 21.50              |                    |
|                          | 3               | 1         | LOW        | 64QAM      | 21.41 | 21.40 | 21.24              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.35 | 21.38 | 21.39              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.22      | 21.31 | 21.11 | 21.50              |                    |
| 8                        |                 | LOW       | 64QAM      | 19.71      | 19.97 | 20.06 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.04      | 19.93 | 20.08 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.70      | 19.86 | 19.95 | 20.50              |                    |
| 15                       |                 | LOW       | 64QAM      | 19.75      | 19.88 | 19.74 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 18625 | 18900 | 19175              | Tune-up power(dBm) |
| 5                        |                 | 1         | LOW        | QPSK       | 22.98 | 22.93 | 23.06              | 23.50              |
|                          | MID             |           | QPSK       | 22.65      | 22.83 | 22.82 | 23.50              |                    |
|                          | HIGH            |           | QPSK       | 22.74      | 22.75 | 22.91 | 23.50              |                    |
|                          | 36              | LOW       | QPSK       | 21.96      | 21.97 | 22.08 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 21.87      | 21.81 | 21.93 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.03      | 21.72 | 21.79 | 22.50              |                    |
|                          | 75              | LOW       | QPSK       | 21.82      | 22.02 | 21.80 | 22.50              |                    |
|                          | 5               | 1         | LOW        | Q16        | 22.31 | 22.06 | 22.25              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.48 | 22.44 | 22.39              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.32      | 22.17 | 22.45 | 22.50              |                    |
| 36                       |                 | LOW       | Q16        | 20.83      | 21.02 | 20.86 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.01      | 20.80 | 21.04 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.80      | 20.92 | 20.87 | 21.50              |                    |
| 75                       |                 | LOW       | Q16        | 20.76      | 20.78 | 20.78 | 21.50              |                    |
| 5                        |                 | 1         | LOW        | 64QAM      | 21.50 | 21.20 | 21.36              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.34 | 21.44 | 21.49              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.38      | 21.38 | 21.20 | 21.50              |                    |
|                          | 36              | LOW       | 64QAM      | 19.79      | 19.96 | 20.02 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.01      | 19.92 | 19.99 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.91      | 19.81 | 19.93 | 20.50              |                    |
|                          | 75              | LOW       | 64QAM      | 19.98      | 19.75 | 19.87 | 20.50              |                    |

| LTE B2-Full Power -Ant.4 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 18650      | 18900 | 19150 | Tune-up power(dBm) |                    |
| 10                       | 1               | LOW       | QPSK       | 22.99      | 22.88 | 23.12 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 22.72      | 22.80 | 22.82 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.85      | 22.97 | 22.84 | 23.50              |                    |
|                          | 50              | LOW       | QPSK       | 21.71      | 21.97 | 22.02 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.06      | 21.92 | 22.15 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.93      | 21.72 | 21.75 | 22.50              |                    |
|                          | 100             | LOW       | QPSK       | 21.83      | 22.04 | 22.01 | 22.50              |                    |
|                          | 10              | 1         | LOW        | Q16        | 22.31 | 22.07 | 22.42              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.47 | 22.27 | 22.35              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.32      | 22.18 | 22.34 | 22.50              |                    |
| 50                       |                 | LOW       | Q16        | 20.86      | 21.15 | 21.07 | 21.50              |                    |
|                          |                 | MID       | Q16        | 20.94      | 21.03 | 20.97 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.00      | 20.69 | 20.93 | 21.50              |                    |
| 100                      |                 | LOW       | Q16        | 20.96      | 20.76 | 20.92 | 21.50              |                    |
| 10                       |                 | 1         | LOW        | 64QAM      | 21.47 | 21.33 | 21.44              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.27 | 21.40 | 21.38              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.41      | 21.28 | 21.39 | 21.50              |                    |
|                          | 50              | LOW       | 64QAM      | 19.71      | 19.90 | 20.05 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 19.92      | 19.96 | 19.88 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.70      | 19.75 | 19.87 | 20.50              |                    |
|                          | 100             | LOW       | 64QAM      | 19.99      | 19.77 | 19.81 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18675 | 18900 | 19125              | Tune-up power(dBm) |
|                          | 15              | 1         | LOW        | QPSK       | 22.95 | 22.78 | 23.05              | 23.50              |
| MID                      |                 |           | QPSK       | 22.76      | 22.80 | 22.94 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 22.91      | 22.75 | 22.75 | 23.50              |                    |
| 36                       |                 | LOW       | QPSK       | 22.01      | 21.97 | 21.86 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 21.86      | 21.87 | 21.95 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.95      | 21.92 | 21.88 | 22.50              |                    |
| 75                       |                 | LOW       | QPSK       | 21.90      | 21.90 | 21.95 | 22.50              |                    |
| 15                       |                 | 1         | LOW        | Q16        | 22.41 | 22.09 | 22.20              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.45 | 22.44 | 22.38              | 22.50              |
|                          | HIGH            |           | Q16        | 22.41      | 22.23 | 22.42 | 22.50              |                    |
|                          | 36              | LOW       | Q16        | 20.94      | 21.07 | 20.96 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.02      | 20.96 | 20.90 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.88      | 20.79 | 20.77 | 21.50              |                    |
|                          | 75              | LOW       | Q16        | 20.78      | 20.98 | 20.98 | 21.50              |                    |
|                          | 15              | 1         | LOW        | 64QAM      | 21.46 | 21.12 | 21.47              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.26 | 21.44 | 21.28              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.27      | 21.38 | 21.29 | 21.50              |                    |
| 36                       |                 | LOW       | 64QAM      | 19.87      | 19.87 | 20.21 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 19.94      | 19.97 | 19.87 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.72      | 19.72 | 20.06 | 20.50              |                    |
| 75                       |                 | LOW       | 64QAM      | 19.94      | 19.95 | 19.73 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 18700 | 18900 | 19100              | Tune-up power(dBm) |
| 20                       |                 | 1         | LOW        | QPSK       | 22.85 | 22.81 | 22.97              | 23.50              |
|                          | MID             |           | QPSK       | 22.77      | 22.93 | 22.90 | 23.50              |                    |
|                          | HIGH            |           | QPSK       | 22.84      | 22.88 | 22.80 | 23.50              |                    |
|                          | 50              | LOW       | QPSK       | 21.86      | 22.00 | 22.00 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 21.96      | 21.95 | 22.01 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.96      | 21.87 | 21.89 | 22.50              |                    |
|                          | 100             | LOW       | QPSK       | 21.88      | 21.93 | 21.92 | 22.50              |                    |
|                          | 20              | 1         | LOW        | Q16        | 22.41 | 22.20 | 22.29              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.34 | 22.33 | 22.38              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.47      | 22.29 | 22.31 | 22.50              |                    |
| 50                       |                 | LOW       | Q16        | 20.83      | 21.00 | 20.95 | 21.50              |                    |
|                          |                 | MID       | Q16        | 20.95      | 20.94 | 20.93 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.95      | 20.84 | 20.80 | 21.50              |                    |
| 100                      |                 | LOW       | Q16        | 20.90      | 20.91 | 20.88 | 21.50              |                    |
| 20                       |                 | 1         | LOW        | 64QAM      | 21.36 | 21.25 | 21.37              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.39 | 21.42 | 21.38              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.35      | 21.39 | 21.25 | 21.50              |                    |
|                          | 50              | LOW       | 64QAM      | 19.85      | 19.96 | 20.09 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 19.90      | 20.01 | 19.99 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.80      | 19.86 | 19.94 | 20.50              |                    |
|                          | 100             | LOW       | 64QAM      | 19.89      | 19.80 | 19.77 | 20.50              |                    |

| LTE B2-State1&3&5 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 18607      | 18900 | 19193 | Tune-up power(dBm) |                    |
| 1.4                      | 1               | LOW       | QPSK       | 20.60      | 20.58 | 20.55 | 21.50              |                    |
|                          |                 | MID       | QPSK       | 20.58      | 20.60 | 20.56 | 21.50              |                    |
|                          |                 | HIGH      | QPSK       | 20.63      | 20.57 | 20.61 | 21.50              |                    |
|                          | 3               | LOW       | QPSK       | 20.63      | 20.61 | 20.71 | 21.50              |                    |
|                          |                 | MID       | QPSK       | 20.65      | 20.57 | 20.72 | 21.50              |                    |
|                          |                 | HIGH      | QPSK       | 20.62      | 20.56 | 20.70 | 21.50              |                    |
|                          | 6               | LOW       | QPSK       | 20.65      | 20.63 | 20.68 | 21.50              |                    |
|                          | 1.4             | 1         | LOW        | Q16        | 20.80 | 21.01 | 20.69              | 21.50              |
|                          |                 |           | MID        | Q16        | 20.80 | 20.96 | 20.75              | 21.50              |
| HIGH                     |                 |           | Q16        | 20.75      | 21.00 | 20.73 | 21.50              |                    |
| 3                        |                 | LOW       | Q16        | 20.69      | 20.82 | 20.85 | 21.50              |                    |
|                          |                 | MID       | Q16        | 20.67      | 20.82 | 20.85 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.68      | 20.78 | 20.83 | 21.50              |                    |
| 6                        |                 | LOW       | Q16        | 20.79      | 20.52 | 20.86 | 21.50              |                    |
| 1.4                      |                 | 1         | LOW        | 64QAM      | 20.71 | 20.87 | 20.57              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 20.93 | 21.11 | 20.68              | 21.50              |
|                          | HIGH            |           | 64QAM      | 20.61      | 21.01 | 20.73 | 21.50              |                    |
|                          | 3               | LOW       | 64QAM      | 20.79      | 20.80 | 20.84 | 21.50              |                    |
|                          |                 | MID       | 64QAM      | 20.68      | 20.85 | 20.88 | 21.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.70      | 20.78 | 20.71 | 21.50              |                    |
|                          | 6               | LOW       | 64QAM      | 19.76      | 19.50 | 19.88 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18615 | 18900 | 19185              | Tune-up power(dBm) |
|                          | 3               | 1         | LOW        | QPSK       | 20.62 | 20.64 | 20.69              | 21.50              |
| MID                      |                 |           | QPSK       | 20.57      | 20.76 | 20.71 | 21.50              |                    |
| HIGH                     |                 |           | QPSK       | 20.76      | 20.81 | 20.44 | 21.50              |                    |
| 8                        |                 | LOW       | QPSK       | 20.48      | 20.79 | 20.74 | 21.50              |                    |
|                          |                 | MID       | QPSK       | 20.78      | 20.62 | 20.83 | 21.50              |                    |
|                          |                 | HIGH      | QPSK       | 20.67      | 20.55 | 20.72 | 21.50              |                    |
| 15                       |                 | LOW       | QPSK       | 20.48      | 20.52 | 20.64 | 21.50              |                    |
| 3                        |                 | 1         | LOW        | Q16        | 21.12 | 21.00 | 21.01              | 21.50              |
|                          |                 |           | MID        | Q16        | 21.04 | 21.23 | 21.10              | 21.50              |
|                          | HIGH            |           | Q16        | 21.20      | 20.96 | 20.89 | 21.50              |                    |
|                          | 8               | LOW       | Q16        | 20.74      | 20.77 | 20.64 | 21.50              |                    |
|                          |                 | MID       | Q16        | 20.77      | 20.78 | 20.82 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.77      | 20.73 | 20.74 | 21.50              |                    |
|                          | 15              | LOW       | Q16        | 20.70      | 20.72 | 20.48 | 21.50              |                    |
|                          | 3               | 1         | LOW        | 64QAM      | 21.11 | 21.02 | 21.35              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.07 | 21.24 | 21.10              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.35      | 21.14 | 21.01 | 21.50              |                    |
| 8                        |                 | LOW       | 64QAM      | 19.67      | 19.77 | 19.48 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 19.99      | 19.63 | 19.48 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.66      | 19.64 | 19.46 | 20.50              |                    |
| 15                       |                 | LOW       | 64QAM      | 19.82      | 19.70 | 19.58 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 18625 | 18900 | 19175              | Tune-up power(dBm) |
| 5                        |                 | 1         | LOW        | QPSK       | 20.66 | 20.78 | 20.67              | 21.50              |
|                          | MID             |           | QPSK       | 20.75      | 20.86 | 20.72 | 21.50              |                    |
|                          | HIGH            |           | QPSK       | 20.67      | 20.63 | 20.73 | 21.50              |                    |
|                          | 36              | LOW       | QPSK       | 20.61      | 20.73 | 20.75 | 21.50              |                    |
|                          |                 | MID       | QPSK       | 20.66      | 20.76 | 20.74 | 21.50              |                    |
|                          |                 | HIGH      | QPSK       | 20.58      | 20.51 | 20.51 | 21.50              |                    |
|                          | 75              | LOW       | QPSK       | 20.58      | 20.62 | 20.75 | 21.50              |                    |
|                          | 5               | 1         | LOW        | Q16        | 21.12 | 21.17 | 21.09              | 21.50              |
|                          |                 |           | MID        | Q16        | 21.15 | 21.24 | 21.21              | 21.50              |
| HIGH                     |                 |           | Q16        | 21.03      | 21.02 | 21.19 | 21.50              |                    |
| 36                       |                 | LOW       | Q16        | 20.46      | 20.86 | 20.78 | 21.50              |                    |
|                          |                 | MID       | Q16        | 20.63      | 20.65 | 20.60 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.63      | 20.56 | 20.51 | 21.50              |                    |
| 75                       |                 | LOW       | Q16        | 20.74      | 20.66 | 20.69 | 21.50              |                    |
| 5                        |                 | 1         | LOW        | 64QAM      | 21.04 | 21.23 | 21.27              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.16 | 21.28 | 21.36              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.43      | 20.96 | 20.98 | 21.50              |                    |
|                          | 36              | LOW       | 64QAM      | 19.65      | 19.63 | 19.72 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 19.81      | 19.69 | 19.66 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.63      | 19.64 | 19.45 | 20.50              |                    |
|                          | 75              | LOW       | 64QAM      | 19.79      | 19.75 | 19.43 | 20.50              |                    |

| LTE B2-State1 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|----------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)      | RB Size         | RB offset | Modulation | 18650      | 18900 | 19150 | Tune-up power(dBm) |                    |
| 10                   | 1               | LOW       | QPSK       | 20.67      | 20.52 | 20.57 | 21.50              |                    |
|                      |                 | MID       | QPSK       | 20.85      | 20.65 | 20.82 | 21.50              |                    |
|                      |                 | HIGH      | QPSK       | 20.63      | 20.77 | 20.51 | 21.50              |                    |
|                      | 50              | LOW       | QPSK       | 20.59      | 20.73 | 20.73 | 21.50              |                    |
|                      |                 | MID       | QPSK       | 20.78      | 20.58 | 20.89 | 21.50              |                    |
|                      |                 | HIGH      | QPSK       | 20.59      | 20.77 | 20.69 | 21.50              |                    |
|                      | 100             | LOW       | QPSK       | 20.50      | 20.57 | 20.77 | 21.50              |                    |
|                      | 10              | 1         | LOW        | Q16        | 21.12 | 20.95 | 20.98              | 21.50              |
|                      |                 |           | MID        | Q16        | 21.22 | 21.13 | 21.12              | 21.50              |
| HIGH                 |                 |           | Q16        | 21.10      | 21.01 | 20.92 | 21.50              |                    |
| 50                   |                 | LOW       | Q16        | 20.47      | 20.67 | 20.68 | 21.50              |                    |
|                      |                 | MID       | Q16        | 20.80      | 20.70 | 20.84 | 21.50              |                    |
|                      |                 | HIGH      | Q16        | 20.73      | 20.58 | 20.56 | 21.50              |                    |
| 100                  |                 | LOW       | Q16        | 20.75      | 20.71 | 20.51 | 21.50              |                    |
| 10                   |                 | 1         | LOW        | 64QAM      | 21.14 | 21.14 | 21.33              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 21.25 | 21.04 | 21.22              | 21.50              |
|                      | HIGH            |           | 64QAM      | 21.34      | 20.96 | 20.95 | 21.50              |                    |
|                      | 50              | LOW       | 64QAM      | 19.70      | 19.53 | 19.68 | 20.50              |                    |
|                      |                 | MID       | 64QAM      | 19.78      | 19.82 | 19.50 | 20.50              |                    |
|                      |                 | HIGH      | 64QAM      | 19.65      | 19.78 | 19.30 | 20.50              |                    |
|                      | 100             | LOW       | 64QAM      | 19.68      | 19.60 | 19.41 | 20.50              |                    |
|                      | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18675 | 18900 | 19125              | Tune-up power(dBm) |
|                      | 15              | 1         | LOW        | QPSK       | 20.67 | 20.72 | 20.78              | 21.50              |
| MID                  |                 |           | QPSK       | 20.83      | 20.80 | 20.69 | 21.50              |                    |
| HIGH                 |                 |           | QPSK       | 20.72      | 20.69 | 20.64 | 21.50              |                    |
| 36                   |                 | LOW       | QPSK       | 20.60      | 20.88 | 20.79 | 21.50              |                    |
|                      |                 | MID       | QPSK       | 20.82      | 20.80 | 20.87 | 21.50              |                    |
|                      |                 | HIGH      | QPSK       | 20.77      | 20.51 | 20.58 | 21.50              |                    |
| 75                   |                 | LOW       | QPSK       | 20.72      | 20.79 | 20.70 | 21.50              |                    |
| 15                   |                 | 1         | LOW        | Q16        | 21.03 | 21.03 | 21.17              | 21.50              |
|                      |                 |           | MID        | Q16        | 21.23 | 21.07 | 21.11              | 21.50              |
|                      | HIGH            |           | Q16        | 21.09      | 20.99 | 21.01 | 21.50              |                    |
|                      | 36              | LOW       | Q16        | 20.47      | 20.78 | 20.82 | 21.50              |                    |
|                      |                 | MID       | Q16        | 20.63      | 20.74 | 20.59 | 21.50              |                    |
|                      |                 | HIGH      | Q16        | 20.85      | 20.69 | 20.49 | 21.50              |                    |
|                      | 75              | LOW       | Q16        | 20.81      | 20.71 | 20.73 | 21.50              |                    |
|                      | 15              | 1         | LOW        | 64QAM      | 20.97 | 21.21 | 21.10              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 21.16 | 21.19 | 21.21              | 21.50              |
| HIGH                 |                 |           | 64QAM      | 21.40      | 21.07 | 20.90 | 21.50              |                    |
| 36                   |                 | LOW       | 64QAM      | 19.80      | 19.70 | 19.59 | 20.50              |                    |
|                      |                 | MID       | 64QAM      | 19.94      | 19.76 | 19.47 | 20.50              |                    |
|                      |                 | HIGH      | 64QAM      | 19.64      | 19.56 | 19.32 | 20.50              |                    |
| 75                   |                 | LOW       | 64QAM      | 19.76      | 19.53 | 19.39 | 20.50              |                    |
| Bandwidth (MHz)      |                 | RB Size   | RB offset  | Modulation | 18700 | 18900 | 19100              | Tune-up power(dBm) |
| 20                   |                 | 1         | LOW        | QPSK       | 20.58 | 20.67 | 20.65              | 21.50              |
|                      | MID             |           | QPSK       | 20.64      | 20.72 | 20.73 | 21.50              |                    |
|                      | HIGH            |           | QPSK       | 20.72      | 20.69 | 20.58 | 21.50              |                    |
|                      | 50              | LOW       | QPSK       | 20.59      | 20.74 | 20.68 | 21.50              |                    |
|                      |                 | MID       | QPSK       | 20.68      | 20.71 | 20.73 | 21.50              |                    |
|                      |                 | HIGH      | QPSK       | 20.68      | 20.64 | 20.75 | 21.50              |                    |
|                      | 100             | LOW       | QPSK       | 20.63      | 20.63 | 20.65 | 21.50              |                    |
|                      | 20              | 1         | LOW        | Q16        | 21.08 | 21.06 | 21.05              | 21.50              |
|                      |                 |           | MID        | Q16        | 21.12 | 21.15 | 21.16              | 21.50              |
| HIGH                 |                 |           | Q16        | 21.10      | 21.07 | 21.05 | 21.50              |                    |
| 50                   |                 | LOW       | Q16        | 20.60      | 20.77 | 20.72 | 21.50              |                    |
|                      |                 | MID       | Q16        | 20.73      | 20.74 | 20.73 | 21.50              |                    |
|                      |                 | HIGH      | Q16        | 20.73      | 20.63 | 20.59 | 21.50              |                    |
| 100                  |                 | LOW       | Q16        | 20.68      | 20.69 | 20.63 | 21.50              |                    |
| 20                   |                 | 1         | LOW        | 64QAM      | 21.11 | 21.12 | 21.20              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 21.20 | 21.17 | 21.25              | 21.50              |
|                      | HIGH            |           | 64QAM      | 21.32      | 21.02 | 20.96 | 21.50              |                    |
|                      | 50              | LOW       | 64QAM      | 19.67      | 19.63 | 19.57 | 20.50              |                    |
|                      |                 | MID       | 64QAM      | 19.84      | 19.72 | 19.59 | 20.50              |                    |
|                      |                 | HIGH      | 64QAM      | 19.64      | 19.66 | 19.45 | 20.50              |                    |
|                      | 100             | LOW       | 64QAM      | 19.68      | 19.61 | 19.51 | 20.50              |                    |

| LTE B2-State2&4&6 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 18607      | 18900 | 19193 | Tune-up power(dBm) |                    |
| 1.4                      | 1               | LOW       | QPSK       | 16.74      | 16.74 | 16.71 | 17.50              |                    |
|                          |                 | MID       | QPSK       | 16.73      | 16.70 | 16.71 | 17.50              |                    |
|                          |                 | HIGH      | QPSK       | 16.77      | 16.73 | 16.71 | 17.50              |                    |
|                          | 3               | LOW       | QPSK       | 16.76      | 16.76 | 16.77 | 17.50              |                    |
|                          |                 | MID       | QPSK       | 16.81      | 16.75 | 16.79 | 17.50              |                    |
|                          |                 | HIGH      | QPSK       | 16.80      | 16.75 | 16.78 | 17.50              |                    |
|                          | 6               | LOW       | QPSK       | 16.79      | 16.80 | 16.79 | 17.50              |                    |
|                          | 1.4             | 1         | LOW        | Q16        | 16.94 | 17.14 | 16.76              | 17.50              |
|                          |                 |           | MID        | Q16        | 16.94 | 17.13 | 16.77              | 17.50              |
| HIGH                     |                 |           | Q16        | 16.96      | 17.13 | 16.81 | 17.50              |                    |
| 3                        |                 | LOW       | Q16        | 16.83      | 16.98 | 16.93 | 17.50              |                    |
|                          |                 | MID       | Q16        | 16.82      | 16.92 | 16.93 | 17.50              |                    |
|                          |                 | HIGH      | Q16        | 16.82      | 16.91 | 16.93 | 17.50              |                    |
| 6                        |                 | LOW       | Q16        | 16.94      | 16.65 | 16.95 | 17.50              |                    |
| 1.4                      |                 | 1         | LOW        | 64QAM      | 16.80 | 17.28 | 16.81              | 17.50              |
|                          |                 |           | MID        | 64QAM      | 17.06 | 17.03 | 16.78              | 17.50              |
|                          | HIGH            |           | 64QAM      | 17.05      | 17.18 | 16.68 | 17.50              |                    |
|                          | 3               | LOW       | 64QAM      | 16.88      | 16.98 | 17.07 | 17.50              |                    |
|                          |                 | MID       | 64QAM      | 16.71      | 16.99 | 16.89 | 17.50              |                    |
|                          |                 | HIGH      | 64QAM      | 16.90      | 17.05 | 16.89 | 17.50              |                    |
|                          | 6               | LOW       | 64QAM      | 17.04      | 16.69 | 16.86 | 17.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18615 | 18900 | 19185              | Tune-up power(dBm) |
|                          | 3               | 1         | LOW        | QPSK       | 16.72 | 16.83 | 16.72              | 17.50              |
| MID                      |                 |           | QPSK       | 16.96      | 16.72 | 16.83 | 17.50              |                    |
| HIGH                     |                 |           | QPSK       | 16.73      | 16.80 | 16.67 | 17.50              |                    |
| 8                        |                 | LOW       | QPSK       | 16.77      | 16.97 | 16.85 | 17.50              |                    |
|                          |                 | MID       | QPSK       | 16.89      | 16.90 | 16.83 | 17.50              |                    |
|                          |                 | HIGH      | QPSK       | 16.64      | 16.52 | 16.87 | 17.50              |                    |
| 15                       |                 | LOW       | QPSK       | 16.54      | 16.66 | 16.77 | 17.50              |                    |
| 3                        |                 | 1         | LOW        | Q16        | 17.08 | 17.02 | 16.96              | 17.50              |
|                          |                 |           | MID        | Q16        | 17.42 | 17.09 | 17.22              | 17.50              |
|                          | HIGH            |           | Q16        | 17.21      | 17.16 | 17.07 | 17.50              |                    |
|                          | 8               | LOW       | Q16        | 16.75      | 16.68 | 16.74 | 17.50              |                    |
|                          |                 | MID       | Q16        | 16.89      | 16.93 | 16.78 | 17.50              |                    |
|                          |                 | HIGH      | Q16        | 16.85      | 16.67 | 16.59 | 17.50              |                    |
|                          | 15              | LOW       | Q16        | 16.86      | 16.63 | 16.80 | 17.50              |                    |
|                          | 3               | 1         | LOW        | 64QAM      | 17.17 | 17.01 | 17.06              | 17.50              |
|                          |                 |           | MID        | 64QAM      | 17.14 | 17.11 | 17.23              | 17.50              |
| HIGH                     |                 |           | 64QAM      | 17.34      | 17.25 | 17.20 | 17.50              |                    |
| 8                        |                 | LOW       | 64QAM      | 16.43      | 17.01 | 16.77 | 17.50              |                    |
|                          |                 | MID       | 64QAM      | 16.83      | 16.90 | 16.71 | 17.50              |                    |
|                          |                 | HIGH      | 64QAM      | 16.89      | 16.67 | 16.55 | 17.50              |                    |
| 15                       |                 | LOW       | 64QAM      | 16.73      | 16.75 | 16.47 | 17.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 18625 | 18900 | 19175              | Tune-up power(dBm) |
| 5                        |                 | 1         | LOW        | QPSK       | 16.72 | 16.76 | 16.64              | 17.50              |
|                          | MID             |           | QPSK       | 16.85      | 16.75 | 16.81 | 17.50              |                    |
|                          | HIGH            |           | QPSK       | 16.84      | 16.90 | 16.58 | 17.50              |                    |
|                          | 36              | LOW       | QPSK       | 16.68      | 16.85 | 16.86 | 17.50              |                    |
|                          |                 | MID       | QPSK       | 16.88      | 16.91 | 16.82 | 17.50              |                    |
|                          |                 | HIGH      | QPSK       | 16.81      | 16.59 | 16.76 | 17.50              |                    |
|                          | 75              | LOW       | QPSK       | 16.57      | 16.80 | 16.71 | 17.50              |                    |
|                          | 5               | 1         | LOW        | Q16        | 17.15 | 16.93 | 17.10              | 17.50              |
|                          |                 |           | MID        | Q16        | 17.21 | 17.18 | 17.20              | 17.50              |
| HIGH                     |                 |           | Q16        | 17.10      | 17.10 | 17.06 | 17.50              |                    |
| 36                       |                 | LOW       | Q16        | 16.78      | 16.69 | 16.83 | 17.50              |                    |
|                          |                 | MID       | Q16        | 16.83      | 16.84 | 16.89 | 17.50              |                    |
|                          |                 | HIGH      | Q16        | 16.92      | 16.72 | 16.85 | 17.50              |                    |
| 75                       |                 | LOW       | Q16        | 16.68      | 16.81 | 16.56 | 17.50              |                    |
| 5                        |                 | 1         | LOW        | 64QAM      | 17.20 | 16.84 | 17.17              | 17.50              |
|                          |                 |           | MID        | 64QAM      | 17.30 | 17.03 | 17.27              | 17.50              |
|                          | HIGH            |           | 64QAM      | 17.18      | 17.05 | 17.14 | 17.50              |                    |
|                          | 36              | LOW       | 64QAM      | 16.64      | 17.07 | 16.84 | 17.50              |                    |
|                          |                 | MID       | 64QAM      | 16.69      | 16.85 | 16.78 | 17.50              |                    |
|                          |                 | HIGH      | 64QAM      | 16.81      | 16.71 | 16.49 | 17.50              |                    |
|                          | 75              | LOW       | 64QAM      | 16.76      | 16.79 | 16.43 | 17.50              |                    |



| LTE B2-State2&4 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)        | RB Size         | RB offset | Modulation | 18650      | 18900 | 19150 | Tune-up power(dBm) |                    |
| 10                     | 1               | LOW       | QPSK       | 16.73      | 16.83 | 16.76 | 17.50              |                    |
|                        |                 | MID       | QPSK       | 16.94      | 16.94 | 16.75 | 17.50              |                    |
|                        |                 | HIGH      | QPSK       | 16.65      | 16.76 | 16.73 | 17.50              |                    |
|                        | 50              | LOW       | QPSK       | 16.65      | 16.78 | 16.65 | 17.50              |                    |
|                        |                 | MID       | QPSK       | 16.71      | 16.81 | 16.72 | 17.50              |                    |
|                        |                 | HIGH      | QPSK       | 16.81      | 16.76 | 16.73 | 17.50              |                    |
|                        | 100             | LOW       | QPSK       | 16.61      | 16.79 | 16.80 | 17.50              |                    |
|                        | 10              | 1         | LOW        | Q16        | 17.16 | 17.04 | 17.20              | 17.50              |
|                        |                 |           | MID        | Q16        | 17.20 | 17.14 | 17.21              | 17.50              |
| HIGH                   |                 |           | Q16        | 17.11      | 17.17 | 17.10 | 17.50              |                    |
| 50                     |                 | LOW       | Q16        | 16.57      | 16.72 | 16.79 | 17.50              |                    |
|                        |                 | MID       | Q16        | 16.86      | 16.73 | 16.74 | 17.50              |                    |
|                        |                 | HIGH      | Q16        | 16.67      | 16.63 | 16.68 | 17.50              |                    |
| 100                    |                 | LOW       | Q16        | 16.78      | 16.82 | 16.80 | 17.50              |                    |
| 10                     |                 | 1         | LOW        | 64QAM      | 17.30 | 17.02 | 17.17              | 17.50              |
|                        |                 |           | MID        | 64QAM      | 17.17 | 17.13 | 17.32              | 17.50              |
|                        | HIGH            |           | 64QAM      | 17.22      | 17.06 | 17.28 | 17.50              |                    |
|                        | 50              | LOW       | 64QAM      | 16.63      | 17.01 | 16.81 | 17.50              |                    |
|                        |                 | MID       | 64QAM      | 16.79      | 16.88 | 16.69 | 17.50              |                    |
|                        |                 | HIGH      | 64QAM      | 16.80      | 16.86 | 16.45 | 17.50              |                    |
|                        | 100             | LOW       | 64QAM      | 16.81      | 16.96 | 16.69 | 17.50              |                    |
|                        | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18675 | 18900 | 19125              | Tune-up power(dBm) |
|                        | 15              | 1         | LOW        | QPSK       | 16.80 | 16.58 | 16.67              | 17.50              |
| MID                    |                 |           | QPSK       | 16.94      | 16.81 | 16.68 | 17.50              |                    |
| HIGH                   |                 |           | QPSK       | 16.78      | 16.70 | 16.67 | 17.50              |                    |
| 36                     |                 | LOW       | QPSK       | 16.72      | 16.83 | 16.70 | 17.50              |                    |
|                        |                 | MID       | QPSK       | 16.81      | 16.91 | 16.97 | 17.50              |                    |
|                        |                 | HIGH      | QPSK       | 16.73      | 16.72 | 16.84 | 17.50              |                    |
| 75                     |                 | LOW       | QPSK       | 16.55      | 16.84 | 16.65 | 17.50              |                    |
| 15                     |                 | 1         | LOW        | Q16        | 17.11 | 17.08 | 16.95              | 17.50              |
|                        |                 |           | MID        | Q16        | 17.28 | 17.15 | 17.12              | 17.50              |
|                        | HIGH            |           | Q16        | 17.07      | 16.99 | 17.02 | 17.50              |                    |
|                        | 36              | LOW       | Q16        | 16.81      | 16.85 | 16.74 | 17.50              |                    |
|                        |                 | MID       | Q16        | 16.81      | 16.67 | 16.89 | 17.50              |                    |
|                        |                 | HIGH      | Q16        | 16.85      | 16.59 | 16.63 | 17.50              |                    |
|                        | 75              | LOW       | Q16        | 16.89      | 16.70 | 16.76 | 17.50              |                    |
|                        | 15              | 1         | LOW        | 64QAM      | 17.07 | 16.75 | 17.04              | 17.50              |
|                        |                 |           | MID        | 64QAM      | 17.19 | 16.97 | 17.28              | 17.50              |
| HIGH                   |                 |           | 64QAM      | 17.22      | 17.05 | 17.14 | 17.50              |                    |
| 36                     |                 | LOW       | 64QAM      | 16.54      | 17.02 | 16.91 | 17.50              |                    |
|                        |                 | MID       | 64QAM      | 16.93      | 17.05 | 16.90 | 17.50              |                    |
|                        |                 | HIGH      | 64QAM      | 16.85      | 16.66 | 16.65 | 17.50              |                    |
| 75                     |                 | LOW       | 64QAM      | 16.62      | 16.89 | 16.65 | 17.50              |                    |
| Bandwidth (MHz)        |                 | RB Size   | RB offset  | Modulation | 18700 | 18900 | 19100              | Tune-up power(dBm) |
| 20                     |                 | 1         | LOW        | QPSK       | 16.68 | 16.83 | 16.70              | 17.50              |
|                        | MID             |           | QPSK       | 16.71      | 16.72 | 16.64 | 17.50              |                    |
|                        | HIGH            |           | QPSK       | 16.81      | 16.75 | 16.61 | 17.50              |                    |
|                        | 50              | LOW       | QPSK       | 16.67      | 16.65 | 16.80 | 17.50              |                    |
|                        |                 | MID       | QPSK       | 16.83      | 16.77 | 16.83 | 17.50              |                    |
|                        |                 | HIGH      | QPSK       | 16.76      | 16.84 | 16.73 | 17.50              |                    |
|                        | 100             | LOW       | QPSK       | 16.69      | 16.70 | 16.75 | 17.50              |                    |
|                        | 20              | 1         | LOW        | Q16        | 17.12 | 17.04 | 17.09              | 17.50              |
|                        |                 |           | MID        | Q16        | 17.16 | 17.20 | 17.20              | 17.50              |
| HIGH                   |                 |           | Q16        | 17.20      | 17.11 | 17.10 | 17.50              |                    |
| 50                     |                 | LOW       | Q16        | 16.66      | 16.83 | 16.80 | 17.50              |                    |
|                        |                 | MID       | Q16        | 16.81      | 16.78 | 16.80 | 17.50              |                    |
|                        |                 | HIGH      | Q16        | 16.79      | 16.71 | 16.70 | 17.50              |                    |
| 100                    |                 | LOW       | Q16        | 16.75      | 16.74 | 16.71 | 17.50              |                    |
| 20                     |                 | 1         | LOW        | 64QAM      | 17.16 | 16.90 | 17.14              | 17.50              |
|                        |                 |           | MID        | 64QAM      | 17.23 | 17.05 | 17.33              | 17.50              |
|                        | HIGH            |           | 64QAM      | 17.30      | 17.12 | 17.27 | 17.50              |                    |
|                        | 50              | LOW       | 64QAM      | 16.57      | 16.92 | 16.92 | 17.50              |                    |
|                        |                 | MID       | 64QAM      | 16.80      | 16.91 | 16.80 | 17.50              |                    |
|                        |                 | HIGH      | 64QAM      | 16.86      | 16.71 | 16.55 | 17.50              |                    |
|                        | 100             | LOW       | 64QAM      | 16.73      | 16.81 | 16.58 | 17.50              |                    |

## 8.3.1 LTE Band2 Output Power

| LTE B2-Full Power -Ant.3 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 18607      | 18900 | 19193 | Tune-up power(dBm) |                    |
| 1.4                      | 1               | LOW       | QPSK       | 23.39      | 23.42 | 23.44 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.39      | 23.42 | 23.43 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.42      | 23.44 | 23.46 | 23.50              |                    |
|                          | 3               | LOW       | QPSK       | 23.45      | 23.45 | 23.46 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.46      | 23.44 | 23.32 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.43      | 23.44 | 23.48 | 23.50              |                    |
|                          | 6               | LOW       | QPSK       | 22.44      | 22.43 | 22.45 | 22.50              |                    |
|                          | 1.4             | 1         | LOW        | Q16        | 22.48 | 22.38 | 22.50              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.42 | 22.34 | 22.33              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.44      | 22.37 | 22.33 | 22.50              |                    |
| 3                        |                 | LOW       | Q16        | 22.42      | 22.49 | 22.48 | 22.50              |                    |
|                          |                 | MID       | Q16        | 22.42      | 22.46 | 22.47 | 22.50              |                    |
|                          |                 | HIGH      | Q16        | 22.44      | 22.47 | 22.45 | 22.50              |                    |
| 6                        |                 | LOW       | Q16        | 21.50      | 21.39 | 21.50 | 21.50              |                    |
| 1.4                      |                 | 1         | LOW        | 64QAM      | 21.32 | 21.38 | 21.37              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.33 | 21.45 | 21.39              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.49      | 21.45 | 21.31 | 21.50              |                    |
|                          | 3               | LOW       | 64QAM      | 21.46      | 21.36 | 21.32 | 21.50              |                    |
|                          |                 | MID       | 64QAM      | 21.44      | 21.25 | 21.38 | 21.50              |                    |
|                          |                 | HIGH      | 64QAM      | 21.47      | 21.33 | 21.37 | 21.50              |                    |
|                          | 6               | LOW       | 64QAM      | 20.45      | 20.28 | 20.37 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18615 | 18900 | 19185              | Tune-up power(dBm) |
|                          | 3               | 1         | LOW        | QPSK       | 23.29 | 23.43 | 23.24              | 23.50              |
| MID                      |                 |           | QPSK       | 23.47      | 23.35 | 23.42 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 23.36      | 23.34 | 23.44 | 23.50              |                    |
| 8                        |                 | LOW       | QPSK       | 22.29      | 22.43 | 22.42 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.37      | 22.47 | 22.37 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.39      | 22.42 | 22.42 | 22.50              |                    |
| 15                       |                 | LOW       | QPSK       | 22.36      | 22.42 | 22.46 | 22.50              |                    |
| 3                        |                 | 1         | LOW        | Q16        | 22.31 | 22.33 | 22.32              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.45 | 22.36 | 22.46              | 22.50              |
|                          | HIGH            |           | Q16        | 22.34      | 22.33 | 22.29 | 22.50              |                    |
|                          | 8               | LOW       | Q16        | 21.44      | 21.45 | 21.49 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.50      | 21.49 | 21.47 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.49      | 21.36 | 21.36 | 21.50              |                    |
|                          | 15              | LOW       | Q16        | 21.42      | 21.41 | 21.42 | 21.50              |                    |
|                          | 3               | 1         | LOW        | 64QAM      | 21.46 | 21.42 | 21.21              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.33 | 21.24 | 21.48              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.31      | 21.37 | 21.40 | 21.50              |                    |
| 8                        |                 | LOW       | 64QAM      | 20.24      | 20.46 | 20.43 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.50      | 20.30 | 20.45 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.46      | 20.31 | 20.29 | 20.50              |                    |
| 15                       |                 | LOW       | 64QAM      | 20.32      | 20.45 | 20.45 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 18625 | 18900 | 19175              | Tune-up power(dBm) |
| 5                        |                 | 1         | LOW        | QPSK       | 23.27 | 23.47 | 23.26              | 23.50              |
|                          | MID             |           | QPSK       | 23.49      | 23.32 | 23.50 | 23.50              |                    |
|                          | HIGH            |           | QPSK       | 23.47      | 23.41 | 23.28 | 23.50              |                    |
|                          | 36              | LOW       | QPSK       | 22.24      | 22.38 | 22.45 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.31      | 22.30 | 22.41 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.47      | 22.35 | 22.39 | 22.50              |                    |
|                          | 75              | LOW       | QPSK       | 22.48      | 22.41 | 22.43 | 22.50              |                    |
|                          | 5               | 1         | LOW        | Q16        | 22.32 | 22.25 | 22.34              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.41 | 22.49 | 22.50              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.33      | 22.37 | 22.43 | 22.50              |                    |
| 36                       |                 | LOW       | Q16        | 21.43      | 21.26 | 21.50 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.46      | 21.45 | 21.39 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.39      | 21.39 | 21.30 | 21.50              |                    |
| 75                       |                 | LOW       | Q16        | 21.42      | 21.38 | 21.37 | 21.50              |                    |
| 5                        |                 | 1         | LOW        | 64QAM      | 21.35 | 21.43 | 21.38              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.37 | 21.23 | 21.48              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.26      | 21.33 | 21.39 | 21.50              |                    |
|                          | 36              | LOW       | 64QAM      | 20.25      | 20.32 | 20.41 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.41      | 20.38 | 20.34 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.47      | 20.38 | 20.28 | 20.50              |                    |
|                          | 75              | LOW       | 64QAM      | 20.31      | 20.42 | 20.44 | 20.50              |                    |

| LTE B2-Full Power -Ant.3 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 18650      | 18900 | 19150 | Tune-up power(dBm) |                    |
| 10                       | 1               | LOW       | QPSK       | 23.31      | 23.49 | 23.26 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.48      | 23.38 | 23.43 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.48      | 23.44 | 23.43 | 23.50              |                    |
|                          | 50              | LOW       | QPSK       | 22.35      | 22.46 | 22.47 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.31      | 22.43 | 22.44 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.39      | 22.31 | 22.41 | 22.50              |                    |
|                          | 100             | LOW       | QPSK       | 22.48      | 22.39 | 22.48 | 22.50              |                    |
|                          | 10              | 1         | LOW        | Q16        | 22.30 | 22.30 | 22.32              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.48 | 22.32 | 22.44              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.44      | 22.28 | 22.48 | 22.50              |                    |
| 50                       |                 | LOW       | Q16        | 21.27      | 21.44 | 21.42 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.42      | 21.40 | 21.40 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.42      | 21.48 | 21.39 | 21.50              |                    |
| 100                      |                 | LOW       | Q16        | 21.39      | 21.43 | 21.43 | 21.50              |                    |
| 10                       |                 | 1         | LOW        | 64QAM      | 21.48 | 21.39 | 21.21              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.24 | 21.17 | 21.50              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.33      | 21.35 | 21.42 | 21.50              |                    |
|                          | 50              | LOW       | 64QAM      | 20.18      | 20.47 | 20.35 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.42      | 20.31 | 20.45 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.44      | 20.35 | 20.35 | 20.50              |                    |
|                          | 100             | LOW       | 64QAM      | 20.26      | 20.42 | 20.47 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18675 | 18900 | 19125              | Tune-up power(dBm) |
|                          | 15              | 1         | LOW        | QPSK       | 23.41 | 23.42 | 23.33              | 23.50              |
| MID                      |                 |           | QPSK       | 23.43      | 23.44 | 23.40 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 23.44      | 23.34 | 23.46 | 23.50              |                    |
| 36                       |                 | LOW       | QPSK       | 22.34      | 22.49 | 22.43 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.46      | 22.31 | 22.40 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.31      | 22.31 | 22.30 | 22.50              |                    |
| 75                       |                 | LOW       | QPSK       | 22.47      | 22.48 | 22.37 | 22.50              |                    |
| 15                       |                 | 1         | LOW        | Q16        | 22.39 | 22.21 | 22.29              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.41 | 22.37 | 22.42              | 22.50              |
|                          | HIGH            |           | Q16        | 22.41      | 22.29 | 22.47 | 22.50              |                    |
|                          | 36              | LOW       | Q16        | 21.30      | 21.42 | 21.49 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.38      | 21.42 | 21.50 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.41      | 21.42 | 21.49 | 21.50              |                    |
|                          | 75              | LOW       | Q16        | 21.35      | 21.36 | 21.36 | 21.50              |                    |
|                          | 15              | 1         | LOW        | 64QAM      | 21.40 | 21.37 | 21.26              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.37 | 21.30 | 21.44              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.26      | 21.30 | 21.44 | 21.50              |                    |
| 36                       |                 | LOW       | 64QAM      | 20.14      | 20.49 | 20.34 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.46      | 20.47 | 20.46 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.40      | 20.39 | 20.35 | 20.50              |                    |
| 75                       |                 | LOW       | 64QAM      | 20.26      | 20.28 | 20.38 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 18700 | 18900 | 19100              | Tune-up power(dBm) |
| 20                       |                 | 1         | LOW        | QPSK       | 23.35 | 23.49 | 23.33              | 23.50              |
|                          | MID             |           | QPSK       | 23.48      | 23.36 | 23.48 | 23.50              |                    |
|                          | HIGH            |           | QPSK       | 23.40      | 23.44 | 23.38 | 23.50              |                    |
|                          | 50              | LOW       | QPSK       | 22.30      | 22.47 | 22.43 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.38      | 22.40 | 22.46 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.39      | 22.35 | 22.34 | 22.50              |                    |
|                          | 100             | LOW       | QPSK       | 22.40      | 22.48 | 22.46 | 22.50              |                    |
|                          | 20              | 1         | LOW        | Q16        | 22.34 | 22.27 | 22.36              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.48 | 22.39 | 22.47              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.43      | 22.31 | 22.38 | 22.50              |                    |
| 50                       |                 | LOW       | Q16        | 21.37      | 21.35 | 21.49 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.48      | 21.49 | 21.42 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.43      | 21.45 | 21.40 | 21.50              |                    |
| 100                      |                 | LOW       | Q16        | 21.42      | 21.45 | 21.44 | 21.50              |                    |
| 20                       |                 | 1         | LOW        | 64QAM      | 21.45 | 21.34 | 21.31              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.32 | 21.25 | 21.44              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.24      | 21.38 | 21.43 | 21.50              |                    |
|                          | 50              | LOW       | 64QAM      | 20.23      | 20.42 | 20.40 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.46      | 20.38 | 20.39 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.44      | 20.33 | 20.26 | 20.50              |                    |
|                          | 100             | LOW       | 64QAM      | 20.32      | 20.37 | 20.48 | 20.50              |                    |

| LTE B2-State1&3&5 -Ant.3 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 18607      | 18900 | 19193 | Tune-up power(dBm) |                    |
| 1.4                      | 1               | LOW       | QPSK       | 21.21      | 21.25 | 21.27 | 21.50              |                    |
|                          |                 | MID       | QPSK       | 21.17      | 21.24 | 21.24 | 21.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.21      | 21.23 | 21.27 | 21.50              |                    |
|                          | 3               | LOW       | QPSK       | 21.24      | 21.26 | 21.30 | 21.50              |                    |
|                          |                 | MID       | QPSK       | 21.23      | 21.25 | 21.34 | 21.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.22      | 21.24 | 21.34 | 21.50              |                    |
|                          | 6               | LOW       | QPSK       | 21.19      | 21.31 | 21.35 | 21.50              |                    |
|                          | 1.4             | 1         | LOW        | Q16        | 21.37 | 21.30 | 21.34              | 21.50              |
|                          |                 |           | MID        | Q16        | 21.40 | 21.44 | 21.35              | 21.50              |
| HIGH                     |                 |           | Q16        | 21.40      | 21.50 | 21.36 | 21.50              |                    |
| 3                        |                 | LOW       | Q16        | 21.27      | 21.49 | 21.50 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.29      | 21.46 | 21.48 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.30      | 21.47 | 21.49 | 21.50              |                    |
| 6                        |                 | LOW       | Q16        | 21.39      | 21.19 | 21.49 | 21.50              |                    |
| 1.4                      |                 | 1         | LOW        | 64QAM      | 21.46 | 21.34 | 21.49              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.33 | 21.31 | 21.29              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.29      | 21.45 | 21.36 | 21.50              |                    |
|                          | 3               | LOW       | 64QAM      | 21.17      | 21.47 | 21.39 | 21.50              |                    |
|                          |                 | MID       | 64QAM      | 21.28      | 21.44 | 21.42 | 21.50              |                    |
|                          |                 | HIGH      | 64QAM      | 21.19      | 21.39 | 21.36 | 21.50              |                    |
|                          | 6               | LOW       | 64QAM      | 20.47      | 20.32 | 20.34 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18615 | 18900 | 19185              | Tune-up power(dBm) |
|                          | 3               | 1         | LOW        | QPSK       | 21.09 | 21.23 | 21.23              | 21.50              |
| MID                      |                 |           | QPSK       | 21.38      | 21.24 | 21.15 | 21.50              |                    |
| HIGH                     |                 |           | QPSK       | 21.22      | 21.18 | 21.21 | 21.50              |                    |
| 8                        |                 | LOW       | QPSK       | 21.18      | 21.37 | 21.45 | 21.50              |                    |
|                          |                 | MID       | QPSK       | 21.25      | 21.32 | 21.45 | 21.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.34      | 21.29 | 21.17 | 21.50              |                    |
| 15                       |                 | LOW       | QPSK       | 21.21      | 21.23 | 21.23 | 21.50              |                    |
| 3                        |                 | 1         | LOW        | Q16        | 21.33 | 21.22 | 21.26              | 21.50              |
|                          |                 |           | MID        | Q16        | 21.34 | 21.35 | 21.39              | 21.50              |
|                          | HIGH            |           | Q16        | 21.45      | 21.24 | 21.20 | 21.50              |                    |
|                          | 8               | LOW       | Q16        | 21.29      | 21.41 | 21.28 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.27      | 21.33 | 21.36 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.33      | 21.18 | 21.27 | 21.50              |                    |
|                          | 15              | LOW       | Q16        | 21.28      | 21.31 | 21.15 | 21.50              |                    |
|                          | 3               | 1         | LOW        | 64QAM      | 21.14 | 21.16 | 21.01              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.45 | 21.37 | 21.45              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.33      | 21.38 | 21.35 | 21.50              |                    |
| 8                        |                 | LOW       | 64QAM      | 20.13      | 20.28 | 20.31 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.23      | 20.25 | 20.49 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.03      | 20.36 | 20.46 | 20.50              |                    |
| 15                       |                 | LOW       | 64QAM      | 20.32      | 20.15 | 20.20 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 18625 | 18900 | 19175              | Tune-up power(dBm) |
| 5                        |                 | 1         | LOW        | QPSK       | 21.09 | 21.25 | 21.11              | 21.50              |
|                          | MID             |           | QPSK       | 21.24      | 21.25 | 21.18 | 21.50              |                    |
|                          | HIGH            |           | QPSK       | 21.18      | 21.18 | 21.28 | 21.50              |                    |
|                          | 36              | LOW       | QPSK       | 21.03      | 21.32 | 21.44 | 21.50              |                    |
|                          |                 | MID       | QPSK       | 21.24      | 21.18 | 21.43 | 21.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.18      | 21.21 | 21.24 | 21.50              |                    |
|                          | 75              | LOW       | QPSK       | 21.18      | 21.31 | 21.27 | 21.50              |                    |
|                          | 5               | 1         | LOW        | Q16        | 21.32 | 21.28 | 21.36              | 21.50              |
|                          |                 |           | MID        | Q16        | 21.41 | 21.32 | 21.43              | 21.50              |
| HIGH                     |                 |           | Q16        | 21.35      | 21.33 | 21.20 | 21.50              |                    |
| 36                       |                 | LOW       | Q16        | 21.14      | 21.39 | 21.37 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.28      | 21.37 | 21.29 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.24      | 21.19 | 21.26 | 21.50              |                    |
| 75                       |                 | LOW       | Q16        | 21.17      | 21.33 | 21.16 | 21.50              |                    |
| 5                        |                 | 1         | LOW        | 64QAM      | 21.23 | 21.13 | 21.05              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.49 | 21.26 | 21.45              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.25      | 21.33 | 21.36 | 21.50              |                    |
|                          | 36              | LOW       | 64QAM      | 20.20      | 20.17 | 20.35 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.24      | 20.28 | 20.30 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.16      | 20.32 | 20.33 | 20.50              |                    |
|                          | 75              | LOW       | 64QAM      | 20.37      | 20.19 | 20.17 | 20.50              |                    |

| LTE B2-State1&3 -Ant.3 |                 |           |            |            |       |       |                    |                    |
|------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)        | RB Size         | RB offset | Modulation | 18650      | 18900 | 19150 | Tune-up power(dBm) |                    |
| 10                     | 1               | LOW       | QPSK       | 21.11      | 21.14 | 21.10 | 21.50              |                    |
|                        |                 | MID       | QPSK       | 21.26      | 21.29 | 21.22 | 21.50              |                    |
|                        |                 | HIGH      | QPSK       | 21.16      | 21.17 | 21.25 | 21.50              |                    |
|                        | 50              | LOW       | QPSK       | 21.12      | 21.35 | 21.44 | 21.50              |                    |
|                        |                 | MID       | QPSK       | 21.29      | 21.31 | 21.35 | 21.50              |                    |
|                        |                 | HIGH      | QPSK       | 21.24      | 21.32 | 21.22 | 21.50              |                    |
|                        | 100             | LOW       | QPSK       | 21.24      | 21.33 | 21.18 | 21.50              |                    |
|                        | 10              | 1         | LOW        | Q16        | 21.28 | 21.22 | 21.24              | 21.50              |
|                        |                 |           | MID        | Q16        | 21.44 | 21.40 | 21.36              | 21.50              |
| HIGH                   |                 |           | Q16        | 21.35      | 21.30 | 21.27 | 21.50              |                    |
| 50                     |                 | LOW       | Q16        | 21.14      | 21.26 | 21.26 | 21.50              |                    |
|                        |                 | MID       | Q16        | 21.24      | 21.36 | 21.39 | 21.50              |                    |
|                        |                 | HIGH      | Q16        | 21.31      | 21.27 | 21.22 | 21.50              |                    |
| 100                    |                 | LOW       | Q16        | 21.25      | 21.25 | 21.30 | 21.50              |                    |
| 10                     |                 | 1         | LOW        | 64QAM      | 21.32 | 21.12 | 21.07              | 21.50              |
|                        |                 |           | MID        | 64QAM      | 21.43 | 21.24 | 21.42              | 21.50              |
|                        | HIGH            |           | 64QAM      | 21.24      | 21.25 | 21.41 | 21.50              |                    |
|                        | 50              | LOW       | 64QAM      | 20.03      | 20.25 | 20.28 | 20.50              |                    |
|                        |                 | MID       | 64QAM      | 20.04      | 20.26 | 20.37 | 20.50              |                    |
|                        |                 | HIGH      | 64QAM      | 20.06      | 20.18 | 20.47 | 20.50              |                    |
|                        | 100             | LOW       | 64QAM      | 20.37      | 20.21 | 20.31 | 20.50              |                    |
|                        | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18675 | 18900 | 19125              | Tune-up power(dBm) |
|                        | 15              | 1         | LOW        | QPSK       | 21.17 | 21.15 | 21.12              | 21.50              |
| MID                    |                 |           | QPSK       | 21.38      | 21.28 | 21.14 | 21.50              |                    |
| HIGH                   |                 |           | QPSK       | 21.27      | 21.33 | 21.22 | 21.50              |                    |
| 36                     |                 | LOW       | QPSK       | 21.17      | 21.31 | 21.38 | 21.50              |                    |
|                        |                 | MID       | QPSK       | 21.32      | 21.30 | 21.26 | 21.50              |                    |
|                        |                 | HIGH      | QPSK       | 21.33      | 21.16 | 21.23 | 21.50              |                    |
| 75                     |                 | LOW       | QPSK       | 21.30      | 21.29 | 21.25 | 21.50              |                    |
| 15                     |                 | 1         | LOW        | Q16        | 21.30 | 21.26 | 21.16              | 21.50              |
|                        |                 |           | MID        | Q16        | 21.36 | 21.37 | 21.29              | 21.50              |
|                        | HIGH            |           | Q16        | 21.47      | 21.21 | 21.21 | 21.50              |                    |
|                        | 36              | LOW       | Q16        | 21.24      | 21.24 | 21.39 | 21.50              |                    |
|                        |                 | MID       | Q16        | 21.18      | 21.40 | 21.28 | 21.50              |                    |
|                        |                 | HIGH      | Q16        | 21.24      | 21.25 | 21.22 | 21.50              |                    |
|                        | 75              | LOW       | Q16        | 21.12      | 21.33 | 21.28 | 21.50              |                    |
|                        | 15              | 1         | LOW        | 64QAM      | 21.15 | 21.18 | 21.09              | 21.50              |
|                        |                 |           | MID        | 64QAM      | 21.40 | 21.33 | 21.40              | 21.50              |
| HIGH                   |                 |           | 64QAM      | 21.29      | 21.27 | 21.35 | 21.50              |                    |
| 36                     |                 | LOW       | 64QAM      | 20.02      | 20.35 | 20.34 | 20.50              |                    |
|                        |                 | MID       | 64QAM      | 20.18      | 20.41 | 20.30 | 20.50              |                    |
|                        |                 | HIGH      | 64QAM      | 20.04      | 20.17 | 20.46 | 20.50              |                    |
| 75                     |                 | LOW       | 64QAM      | 20.38      | 20.07 | 20.18 | 20.50              |                    |
| Bandwidth (MHz)        |                 | RB Size   | RB offset  | Modulation | 18700 | 18900 | 19100              | Tune-up power(dBm) |
| 20                     |                 | 1         | LOW        | QPSK       | 21.17 | 21.32 | 21.16              | 21.50              |
|                        | MID             |           | QPSK       | 21.29      | 21.21 | 21.21 | 21.50              |                    |
|                        | HIGH            |           | QPSK       | 21.21      | 21.26 | 21.22 | 21.50              |                    |
|                        | 50              | LOW       | QPSK       | 21.13      | 21.30 | 21.21 | 21.50              |                    |
|                        |                 | MID       | QPSK       | 21.26      | 21.37 | 21.35 | 21.50              |                    |
|                        |                 | HIGH      | QPSK       | 21.25      | 21.22 | 21.27 | 21.50              |                    |
|                        | 100             | LOW       | QPSK       | 21.22      | 21.25 | 21.28 | 21.50              |                    |
|                        | 20              | 1         | LOW        | Q16        | 21.28 | 21.24 | 21.26              | 21.50              |
|                        |                 |           | MID        | Q16        | 21.43 | 21.35 | 21.36              | 21.50              |
| HIGH                   |                 |           | Q16        | 21.37      | 21.28 | 21.27 | 21.50              |                    |
| 50                     |                 | LOW       | Q16        | 21.19      | 21.33 | 21.34 | 21.50              |                    |
|                        |                 | MID       | Q16        | 21.27      | 21.32 | 21.35 | 21.50              |                    |
|                        |                 | HIGH      | Q16        | 21.23      | 21.27 | 21.24 | 21.50              |                    |
| 100                    |                 | LOW       | Q16        | 21.21      | 21.26 | 21.24 | 21.50              |                    |
| 20                     |                 | 1         | LOW        | 64QAM      | 21.24 | 21.20 | 21.11              | 21.50              |
|                        |                 |           | MID        | 64QAM      | 21.50 | 21.31 | 21.49              | 21.50              |
|                        | HIGH            |           | 64QAM      | 21.26      | 21.35 | 21.42 | 21.50              |                    |
|                        | 50              | LOW       | 64QAM      | 20.12      | 20.26 | 20.34 | 20.50              |                    |
|                        |                 | MID       | 64QAM      | 20.14      | 20.31 | 20.39 | 20.50              |                    |
|                        |                 | HIGH      | 64QAM      | 20.13      | 20.27 | 20.38 | 20.50              |                    |
|                        | 100             | LOW       | 64QAM      | 20.32      | 20.13 | 20.24 | 20.50              |                    |

| LTE B2-State2&4&6 -Ant.3 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 18607      | 18900 | 19193 | Tune-up power(dBm) |                    |
| 1.4                      | 1               | LOW       | QPSK       | 23.39      | 23.42 | 23.44 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.39      | 23.42 | 23.43 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.42      | 23.44 | 23.46 | 23.50              |                    |
|                          | 3               | LOW       | QPSK       | 23.45      | 23.45 | 23.46 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.46      | 23.44 | 23.32 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.43      | 23.44 | 23.48 | 23.50              |                    |
|                          | 6               | LOW       | QPSK       | 22.44      | 22.43 | 22.45 | 22.50              |                    |
|                          | 1.4             | 1         | LOW        | Q16        | 22.48 | 22.38 | 22.50              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.42 | 22.34 | 22.33              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.44      | 22.37 | 22.33 | 22.50              |                    |
| 3                        |                 | LOW       | Q16        | 22.42      | 22.49 | 22.48 | 22.50              |                    |
|                          |                 | MID       | Q16        | 22.42      | 22.46 | 22.47 | 22.50              |                    |
|                          |                 | HIGH      | Q16        | 22.44      | 22.47 | 22.45 | 22.50              |                    |
| 6                        |                 | LOW       | Q16        | 21.50      | 21.39 | 21.50 | 21.50              |                    |
| 1.4                      |                 | 1         | LOW        | 64QAM      | 21.32 | 21.38 | 21.37              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.33 | 21.45 | 21.39              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.49      | 21.45 | 21.31 | 21.50              |                    |
|                          | 3               | LOW       | 64QAM      | 21.46      | 21.36 | 21.32 | 21.50              |                    |
|                          |                 | MID       | 64QAM      | 21.44      | 21.25 | 21.38 | 21.50              |                    |
|                          |                 | HIGH      | 64QAM      | 21.47      | 21.33 | 21.37 | 21.50              |                    |
|                          | 6               | LOW       | 64QAM      | 20.45      | 20.28 | 20.37 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18615 | 18900 | 19185              | Tune-up power(dBm) |
|                          | 3               | 1         | LOW        | QPSK       | 23.29 | 23.43 | 23.24              | 23.50              |
| MID                      |                 |           | QPSK       | 23.47      | 23.35 | 23.42 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 23.36      | 23.34 | 23.44 | 23.50              |                    |
| 8                        |                 | LOW       | QPSK       | 22.29      | 22.43 | 22.42 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.37      | 22.47 | 22.37 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.39      | 22.42 | 22.42 | 22.50              |                    |
| 15                       |                 | LOW       | QPSK       | 22.36      | 22.42 | 22.46 | 22.50              |                    |
| 3                        |                 | 1         | LOW        | Q16        | 22.31 | 22.33 | 22.32              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.45 | 22.36 | 22.46              | 22.50              |
|                          | HIGH            |           | Q16        | 22.34      | 22.33 | 22.29 | 22.50              |                    |
|                          | 8               | LOW       | Q16        | 21.44      | 21.45 | 21.49 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.50      | 21.49 | 21.47 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.49      | 21.36 | 21.36 | 21.50              |                    |
|                          | 15              | LOW       | Q16        | 21.42      | 21.41 | 21.42 | 21.50              |                    |
|                          | 3               | 1         | LOW        | 64QAM      | 21.46 | 21.42 | 21.21              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.33 | 21.24 | 21.48              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.31      | 21.37 | 21.40 | 21.50              |                    |
| 8                        |                 | LOW       | 64QAM      | 20.24      | 20.46 | 20.43 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.50      | 20.30 | 20.45 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.46      | 20.31 | 20.29 | 20.50              |                    |
| 15                       |                 | LOW       | 64QAM      | 20.32      | 20.45 | 20.45 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 18625 | 18900 | 19175              | Tune-up power(dBm) |
| 5                        |                 | 1         | LOW        | QPSK       | 23.27 | 23.47 | 23.26              | 23.50              |
|                          | MID             |           | QPSK       | 23.49      | 23.32 | 23.50 | 23.50              |                    |
|                          | HIGH            |           | QPSK       | 23.47      | 23.41 | 23.28 | 23.50              |                    |
|                          | 36              | LOW       | QPSK       | 22.24      | 22.38 | 22.45 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.31      | 22.30 | 22.41 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.47      | 22.35 | 22.39 | 22.50              |                    |
|                          | 75              | LOW       | QPSK       | 22.48      | 22.41 | 22.43 | 22.50              |                    |
|                          | 5               | 1         | LOW        | Q16        | 22.32 | 22.25 | 22.34              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.41 | 22.49 | 22.50              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.33      | 22.37 | 22.43 | 22.50              |                    |
| 36                       |                 | LOW       | Q16        | 21.43      | 21.26 | 21.50 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.46      | 21.45 | 21.39 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.39      | 21.39 | 21.30 | 21.50              |                    |
| 75                       |                 | LOW       | Q16        | 21.42      | 21.38 | 21.37 | 21.50              |                    |
| 5                        |                 | 1         | LOW        | 64QAM      | 21.35 | 21.43 | 21.38              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.37 | 21.23 | 21.48              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.26      | 21.33 | 21.39 | 21.50              |                    |
|                          | 36              | LOW       | 64QAM      | 20.25      | 20.32 | 20.41 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.41      | 20.38 | 20.34 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.47      | 20.38 | 20.28 | 20.50              |                    |
|                          | 75              | LOW       | 64QAM      | 20.31      | 20.42 | 20.44 | 20.50              |                    |

| LTE B2-State2&4&6 -Ant.3 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 18650      | 18900 | 19150 | Tune-up power(dBm) |                    |
| 10                       | 1               | LOW       | QPSK       | 23.31      | 23.49 | 23.26 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.48      | 23.38 | 23.43 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.48      | 23.44 | 23.43 | 23.50              |                    |
|                          | 50              | LOW       | QPSK       | 22.35      | 22.46 | 22.47 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.31      | 22.43 | 22.44 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.39      | 22.31 | 22.41 | 22.50              |                    |
|                          | 100             | LOW       | QPSK       | 22.48      | 22.39 | 22.48 | 22.50              |                    |
|                          | 10              | 1         | LOW        | Q16        | 22.30 | 22.30 | 22.32              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.48 | 22.32 | 22.44              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.44      | 22.28 | 22.48 | 22.50              |                    |
| 50                       |                 | LOW       | Q16        | 21.27      | 21.44 | 21.42 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.42      | 21.40 | 21.40 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.42      | 21.48 | 21.39 | 21.50              |                    |
| 100                      |                 | LOW       | Q16        | 21.39      | 21.43 | 21.43 | 21.50              |                    |
| 10                       |                 | 1         | LOW        | 64QAM      | 21.48 | 21.39 | 21.21              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.24 | 21.17 | 21.50              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.33      | 21.35 | 21.42 | 21.50              |                    |
|                          | 50              | LOW       | 64QAM      | 20.18      | 20.47 | 20.35 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.42      | 20.31 | 20.45 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.44      | 20.35 | 20.35 | 20.50              |                    |
|                          | 100             | LOW       | 64QAM      | 20.26      | 20.42 | 20.47 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18675 | 18900 | 19125              | Tune-up power(dBm) |
|                          | 15              | 1         | LOW        | QPSK       | 23.41 | 23.42 | 23.33              | 23.50              |
| MID                      |                 |           | QPSK       | 23.43      | 23.44 | 23.40 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 23.44      | 23.34 | 23.46 | 23.50              |                    |
| 36                       |                 | LOW       | QPSK       | 22.34      | 22.49 | 22.43 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.46      | 22.31 | 22.40 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.31      | 22.31 | 22.30 | 22.50              |                    |
| 75                       |                 | LOW       | QPSK       | 22.47      | 22.48 | 22.37 | 22.50              |                    |
| 15                       |                 | 1         | LOW        | Q16        | 22.39 | 22.21 | 22.29              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.41 | 22.37 | 22.42              | 22.50              |
|                          | HIGH            |           | Q16        | 22.41      | 22.29 | 22.47 | 22.50              |                    |
|                          | 36              | LOW       | Q16        | 21.30      | 21.42 | 21.49 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.38      | 21.42 | 21.50 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.41      | 21.42 | 21.49 | 21.50              |                    |
|                          | 75              | LOW       | Q16        | 21.35      | 21.36 | 21.36 | 21.50              |                    |
|                          | 15              | 1         | LOW        | 64QAM      | 21.40 | 21.37 | 21.26              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.37 | 21.30 | 21.44              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.26      | 21.30 | 21.44 | 21.50              |                    |
| 36                       |                 | LOW       | 64QAM      | 20.14      | 20.49 | 20.34 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.46      | 20.47 | 20.46 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.40      | 20.39 | 20.35 | 20.50              |                    |
| 75                       |                 | LOW       | 64QAM      | 20.26      | 20.28 | 20.38 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 18700 | 18900 | 19100              | Tune-up power(dBm) |
| 20                       |                 | 1         | LOW        | QPSK       | 23.35 | 23.49 | 23.33              | 23.50              |
|                          | MID             |           | QPSK       | 23.48      | 23.36 | 23.48 | 23.50              |                    |
|                          | HIGH            |           | QPSK       | 23.40      | 23.44 | 23.38 | 23.50              |                    |
|                          | 50              | LOW       | QPSK       | 22.30      | 22.40 | 22.43 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.38      | 22.47 | 22.46 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.39      | 22.35 | 22.34 | 22.50              |                    |
|                          | 100             | LOW       | QPSK       | 22.40      | 22.48 | 22.46 | 22.50              |                    |
|                          | 20              | 1         | LOW        | Q16        | 22.34 | 22.27 | 22.36              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.48 | 22.39 | 22.47              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.43      | 22.31 | 22.38 | 22.50              |                    |
| 50                       |                 | LOW       | Q16        | 21.37      | 21.35 | 21.49 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.48      | 21.49 | 21.42 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.43      | 21.45 | 21.40 | 21.50              |                    |
| 100                      |                 | LOW       | Q16        | 21.42      | 21.45 | 21.44 | 21.50              |                    |
| 20                       |                 | 1         | LOW        | 64QAM      | 21.45 | 21.34 | 21.31              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.32 | 21.25 | 21.44              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.24      | 21.38 | 21.43 | 21.50              |                    |
|                          | 50              | LOW       | 64QAM      | 20.23      | 20.42 | 20.40 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.46      | 20.38 | 20.39 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.44      | 20.33 | 20.26 | 20.50              |                    |
|                          | 100             | LOW       | 64QAM      | 20.32      | 20.37 | 20.48 | 20.50              |                    |

### 8.3.2 LTE Band4 Output Power

| LTE B4-Full Power -Ant.4 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 19957      | 20175 | 20393 | Tune-up power(dBm) |                    |
| 1.4                      | 1               | LOW       | QPSK       | 22.23      | 22.19 | 22.07 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 22.26      | 22.18 | 22.06 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.31      | 22.19 | 22.08 | 23.50              |                    |
|                          | 3               | LOW       | QPSK       | 22.33      | 22.22 | 22.11 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 22.33      | 22.20 | 22.10 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.31      | 22.20 | 22.09 | 23.50              |                    |
|                          | 6               | LOW       | QPSK       | 21.30      | 21.22 | 21.06 | 22.50              |                    |
|                          | 1.4             | 1         | LOW        | Q16        | 21.45 | 21.61 | 21.13              | 22.50              |
|                          |                 |           | MID        | Q16        | 21.45 | 21.57 | 21.14              | 22.50              |
| HIGH                     |                 |           | Q16        | 21.46      | 21.60 | 21.14 | 22.50              |                    |
| 3                        |                 | LOW       | Q16        | 21.35      | 21.40 | 21.25 | 22.50              |                    |
|                          |                 | MID       | Q16        | 21.34      | 21.37 | 21.24 | 22.50              |                    |
|                          |                 | HIGH      | Q16        | 21.34      | 21.40 | 21.22 | 22.50              |                    |
| 6                        |                 | LOW       | Q16        | 20.45      | 20.13 | 20.25 | 21.50              |                    |
| 1.4                      |                 | 1         | LOW        | 64QAM      | 20.56 | 20.70 | 20.11              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 20.47 | 20.61 | 20.00              | 21.50              |
|                          | HIGH            |           | 64QAM      | 20.43      | 20.51 | 20.09 | 21.50              |                    |
|                          | 3               | LOW       | 64QAM      | 20.47      | 20.41 | 20.29 | 21.50              |                    |
|                          |                 | MID       | 64QAM      | 20.27      | 20.32 | 20.17 | 21.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.40      | 20.50 | 20.33 | 21.50              |                    |
|                          | 6               | LOW       | 64QAM      | 19.48      | 19.08 | 19.26 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 19965 | 20175 | 20385              | Tune-up power(dBm) |
|                          | 3               | 1         | LOW        | QPSK       | 22.09 | 22.08 | 22.16              | 23.50              |
| MID                      |                 |           | QPSK       | 22.22      | 22.29 | 22.26 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 22.08      | 22.21 | 22.14 | 23.50              |                    |
| 8                        |                 | LOW       | QPSK       | 21.18      | 21.22 | 21.34 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 21.13      | 21.15 | 21.33 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.19      | 21.11 | 21.29 | 22.50              |                    |
| 15                       |                 | LOW       | QPSK       | 21.40      | 21.07 | 21.14 | 22.50              |                    |
| 3                        |                 | 1         | LOW        | Q16        | 21.82 | 21.50 | 21.66              | 22.50              |
|                          |                 |           | MID        | Q16        | 21.61 | 21.80 | 21.75              | 22.50              |
|                          | HIGH            |           | Q16        | 21.74      | 21.56 | 21.52 | 22.50              |                    |
|                          | 8               | LOW       | Q16        | 20.30      | 20.19 | 20.04 | 21.50              |                    |
|                          |                 | MID       | Q16        | 20.25      | 20.20 | 20.28 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.19      | 20.10 | 20.13 | 21.50              |                    |
|                          | 15              | LOW       | Q16        | 20.18      | 20.18 | 20.19 | 21.50              |                    |
|                          | 3               | 1         | LOW        | 64QAM      | 20.65 | 20.64 | 20.65              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 20.79 | 20.54 | 20.60              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 20.73      | 20.32 | 20.44 | 21.50              |                    |
| 8                        |                 | LOW       | 64QAM      | 19.13      | 19.28 | 19.26 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 19.29      | 19.12 | 19.23 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.06      | 19.24 | 19.23 | 20.50              |                    |
| 15                       |                 | LOW       | 64QAM      | 19.21      | 19.29 | 19.36 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 19975 | 20175 | 20375              | Tune-up power(dBm) |
| 5                        |                 | 1         | LOW        | QPSK       | 22.08 | 22.09 | 21.92              | 23.50              |
|                          | MID             |           | QPSK       | 22.10      | 22.24 | 22.32 | 23.50              |                    |
|                          | HIGH            |           | QPSK       | 22.07      | 22.29 | 22.15 | 23.50              |                    |
|                          | 36              | LOW       | QPSK       | 21.12      | 21.08 | 21.11 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 21.40      | 21.13 | 21.16 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.11      | 21.10 | 21.02 | 22.50              |                    |
|                          | 75              | LOW       | QPSK       | 21.34      | 21.15 | 21.14 | 22.50              |                    |
|                          | 5               | 1         | LOW        | Q16        | 21.76 | 21.48 | 21.42              | 22.50              |
|                          |                 |           | MID        | Q16        | 21.89 | 21.66 | 21.57              | 22.50              |
| HIGH                     |                 |           | Q16        | 21.66      | 21.46 | 21.54 | 22.50              |                    |
| 36                       |                 | LOW       | Q16        | 20.43      | 20.33 | 20.15 | 21.50              |                    |
|                          |                 | MID       | Q16        | 20.29      | 20.38 | 20.05 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.33      | 20.13 | 20.10 | 21.50              |                    |
| 75                       |                 | LOW       | Q16        | 20.15      | 20.15 | 20.13 | 21.50              |                    |
| 5                        |                 | 1         | LOW        | 64QAM      | 20.82 | 20.51 | 20.56              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 20.78 | 20.55 | 20.66              | 21.50              |
|                          | HIGH            |           | 64QAM      | 20.72      | 20.46 | 20.54 | 21.50              |                    |
|                          | 36              | LOW       | 64QAM      | 19.39      | 19.38 | 19.06 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 19.31      | 19.22 | 19.22 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.20      | 19.02 | 19.08 | 20.50              |                    |
|                          | 75              | LOW       | 64QAM      | 19.26      | 19.07 | 19.31 | 20.50              |                    |



| LTE B4-Full Power -Ant.4 |         |           |            |       |       |       |                    |       |
|--------------------------|---------|-----------|------------|-------|-------|-------|--------------------|-------|
| Bandwidth (MHz)          | RB Size | RB offset | Modulation | 20000 | 20175 | 20350 | Tune-up power(dBm) |       |
| 10                       | 1       | LOW       | QPSK       | 22.19 | 22.16 | 22.11 | 23.50              |       |
|                          |         | MID       | QPSK       | 22.36 | 22.16 | 22.12 | 23.50              |       |
|                          |         | HIGH      | QPSK       | 22.03 | 22.15 | 21.89 | 23.50              |       |
|                          | 50      | LOW       | QPSK       | 21.23 | 21.13 | 21.27 | 22.50              |       |
|                          |         | MID       | QPSK       | 21.30 | 21.29 | 21.35 | 22.50              |       |
|                          |         | HIGH      | QPSK       | 21.16 | 21.36 | 21.28 | 22.50              |       |
|                          | 100     | LOW       | QPSK       | 21.33 | 21.25 | 21.18 | 22.50              |       |
|                          | 10      | 1         | LOW        | Q16   | 21.65 | 21.59 | 21.46              | 22.50 |
|                          |         |           | MID        | Q16   | 21.61 | 21.79 | 21.68              | 22.50 |
| HIGH                     |         |           | Q16        | 21.77 | 21.49 | 21.34 | 22.50              |       |
| 50                       |         | LOW       | Q16        | 20.36 | 20.20 | 20.24 | 21.50              |       |
|                          |         | MID       | Q16        | 20.18 | 20.25 | 20.23 | 21.50              |       |
|                          |         | HIGH      | Q16        | 20.23 | 20.12 | 19.96 | 21.50              |       |
| 100                      |         | LOW       | Q16        | 20.36 | 20.20 | 20.24 | 21.50              |       |
| 10                       |         | 1         | LOW        | 64QAM | 20.85 | 20.49 | 20.44              | 21.50 |
|                          |         |           | MID        | 64QAM | 20.77 | 20.82 | 20.58              | 21.50 |
|                          | HIGH    |           | 64QAM      | 20.54 | 20.35 | 20.63 | 21.50              |       |
|                          | 50      | LOW       | 64QAM      | 19.35 | 19.19 | 19.01 | 20.50              |       |
|                          |         | MID       | 64QAM      | 19.14 | 19.22 | 19.20 | 20.50              |       |
|                          |         | HIGH      | 64QAM      | 19.15 | 19.21 | 18.97 | 20.50              |       |
|                          | 100     | LOW       | 64QAM      | 19.23 | 18.99 | 19.18 | 20.50              |       |
| Bandwidth (MHz)          | RB Size | RB offset | Modulation | 20025 | 20175 | 20325 | Tune-up power(dBm) |       |
| 15                       | 1       | LOW       | QPSK       | 22.28 | 22.20 | 21.90 | 23.50              |       |
|                          |         | MID       | QPSK       | 22.12 | 22.26 | 22.18 | 23.50              |       |
|                          |         | HIGH      | QPSK       | 22.27 | 22.41 | 22.12 | 23.50              |       |
|                          | 36      | LOW       | QPSK       | 21.03 | 21.21 | 21.24 | 22.50              |       |
|                          |         | MID       | QPSK       | 21.14 | 21.29 | 21.35 | 22.50              |       |
|                          |         | HIGH      | QPSK       | 21.19 | 21.26 | 21.08 | 22.50              |       |
|                          | 75      | LOW       | QPSK       | 21.11 | 21.20 | 21.20 | 22.50              |       |
|                          | 15      | 1         | LOW        | Q16   | 21.55 | 21.69 | 21.42              | 22.50 |
|                          |         |           | MID        | Q16   | 21.67 | 21.65 | 21.78              | 22.50 |
| HIGH                     |         |           | Q16        | 21.59 | 21.66 | 21.41 | 22.50              |       |
| 36                       |         | LOW       | Q16        | 20.32 | 20.27 | 20.08 | 21.50              |       |
|                          |         | MID       | Q16        | 20.29 | 20.21 | 20.25 | 21.50              |       |
|                          |         | HIGH      | Q16        | 20.30 | 20.27 | 19.93 | 21.50              |       |
| 75                       |         | LOW       | Q16        | 20.32 | 20.04 | 20.19 | 21.50              |       |
| 15                       |         | 1         | LOW        | 64QAM | 20.72 | 20.45 | 20.36              | 21.50 |
|                          |         |           | MID        | 64QAM | 20.84 | 20.76 | 20.71              | 21.50 |
|                          | HIGH    |           | 64QAM      | 20.67 | 20.54 | 20.45 | 21.50              |       |
|                          | 36      | LOW       | 64QAM      | 19.28 | 19.34 | 19.05 | 20.50              |       |
|                          |         | MID       | 64QAM      | 19.19 | 19.15 | 19.09 | 20.50              |       |
|                          |         | HIGH      | 64QAM      | 19.02 | 19.02 | 19.05 | 20.50              |       |
|                          | 75      | LOW       | 64QAM      | 19.20 | 19.03 | 19.14 | 20.50              |       |
| Bandwidth (MHz)          | RB Size | RB offset | Modulation | 20050 | 20175 | 20300 | Tune-up power(dBm) |       |
| 20                       | 1       | LOW       | QPSK       | 22.19 | 22.09 | 22.05 | 23.50              |       |
|                          |         | MID       | QPSK       | 22.23 | 22.16 | 22.24 | 23.50              |       |
|                          |         | HIGH      | QPSK       | 22.16 | 22.28 | 22.03 | 23.50              |       |
|                          | 50      | LOW       | QPSK       | 21.15 | 21.19 | 21.21 | 22.50              |       |
|                          |         | MID       | QPSK       | 21.25 | 21.26 | 21.25 | 22.50              |       |
|                          |         | HIGH      | QPSK       | 21.25 | 21.21 | 21.15 | 22.50              |       |
|                          | 100     | LOW       | QPSK       | 21.26 | 21.13 | 21.17 | 22.50              |       |
|                          | 20      | 1         | LOW        | Q16   | 21.67 | 21.61 | 21.52              | 22.50 |
|                          |         |           | MID        | Q16   | 21.74 | 21.73 | 21.66              | 22.50 |
| HIGH                     |         |           | Q16        | 21.66 | 21.58 | 21.47 | 22.50              |       |
| 50                       |         | LOW       | Q16        | 20.31 | 20.22 | 20.15 | 21.50              |       |
|                          |         | MID       | Q16        | 20.27 | 20.25 | 20.20 | 21.50              |       |
|                          |         | HIGH      | Q16        | 20.30 | 20.17 | 20.07 | 21.50              |       |
| 100                      |         | LOW       | Q16        | 20.28 | 20.17 | 20.13 | 21.50              |       |
| 20                       |         | 1         | LOW        | 64QAM | 20.73 | 20.55 | 20.59              | 21.50 |
|                          |         |           | MID        | 64QAM | 20.61 | 20.71 | 20.61              | 21.50 |
|                          | HIGH    |           | 64QAM      | 20.56 | 20.73 | 20.53 | 21.50              |       |
|                          | 50      | LOW       | 64QAM      | 19.30 | 19.07 | 19.24 | 20.50              |       |
|                          |         | MID       | 64QAM      | 19.14 | 19.37 | 19.10 | 20.50              |       |
|                          |         | HIGH      | 64QAM      | 19.39 | 19.24 | 19.09 | 20.50              |       |
|                          | 100     | LOW       | 64QAM      | 19.33 | 19.03 | 19.01 | 20.50              |       |

| LTE B4-State1 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|----------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)      | RB Size         | RB offset | Modulation | 19957      | 20175 | 20393 | Tune-up power(dBm) |                    |
| 1.4                  | 1               | LOW       | QPSK       | 22.23      | 22.22 | 22.08 | 22.50              |                    |
|                      |                 | MID       | QPSK       | 22.26      | 22.23 | 22.06 | 22.50              |                    |
|                      |                 | HIGH      | QPSK       | 22.33      | 22.24 | 22.06 | 22.50              |                    |
|                      | 3               | LOW       | QPSK       | 22.31      | 22.22 | 22.09 | 22.50              |                    |
|                      |                 | MID       | QPSK       | 22.33      | 22.23 | 22.10 | 22.50              |                    |
|                      |                 | HIGH      | QPSK       | 22.30      | 22.20 | 22.08 | 22.50              |                    |
|                      | 6               | LOW       | QPSK       | 21.35      | 21.25 | 21.06 | 22.50              |                    |
|                      | 1.4             | 1         | LOW        | Q16        | 21.45 | 21.62 | 21.11              | 22.50              |
|                      |                 |           | MID        | Q16        | 21.48 | 21.59 | 21.14              | 22.50              |
| HIGH                 |                 |           | Q16        | 21.49      | 21.64 | 21.13 | 22.50              |                    |
| 3                    |                 | LOW       | Q16        | 21.35      | 21.41 | 21.25 | 22.50              |                    |
|                      |                 | MID       | Q16        | 21.37      | 21.37 | 21.24 | 22.50              |                    |
|                      |                 | HIGH      | Q16        | 21.36      | 21.39 | 21.22 | 22.50              |                    |
| 6                    |                 | LOW       | Q16        | 20.47      | 20.12 | 20.23 | 21.50              |                    |
| 1.4                  |                 | 1         | LOW        | 64QAM      | 20.47 | 20.71 | 20.22              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 20.53 | 20.67 | 20.05              | 21.50              |
|                      | HIGH            |           | 64QAM      | 20.45      | 20.69 | 20.06 | 21.50              |                    |
|                      | 3               | LOW       | 64QAM      | 20.43      | 20.54 | 20.33 | 21.50              |                    |
|                      |                 | MID       | 64QAM      | 20.47      | 20.52 | 20.31 | 21.50              |                    |
|                      |                 | HIGH      | 64QAM      | 20.21      | 20.53 | 20.36 | 21.50              |                    |
|                      | 6               | LOW       | 64QAM      | 19.32      | 19.08 | 19.15 | 20.50              |                    |
|                      | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 19965 | 20175 | 20385              | Tune-up power(dBm) |
|                      | 3               | 1         | LOW        | QPSK       | 22.23 | 22.26 | 22.20              | 22.50              |
| MID                  |                 |           | QPSK       | 22.32      | 22.19 | 22.21 | 22.50              |                    |
| HIGH                 |                 |           | QPSK       | 22.16      | 22.26 | 21.88 | 22.50              |                    |
| 8                    |                 | LOW       | QPSK       | 21.29      | 21.30 | 21.29 | 22.50              |                    |
|                      |                 | MID       | QPSK       | 21.40      | 21.33 | 21.10 | 22.50              |                    |
|                      |                 | HIGH      | QPSK       | 21.30      | 21.32 | 21.30 | 22.50              |                    |
| 15                   |                 | LOW       | QPSK       | 21.36      | 21.18 | 21.08 | 22.50              |                    |
| 3                    |                 | 1         | LOW        | Q16        | 21.79 | 21.64 | 21.32              | 22.50              |
|                      |                 |           | MID        | Q16        | 21.70 | 21.68 | 21.60              | 22.50              |
|                      | HIGH            |           | Q16        | 21.75      | 21.75 | 21.42 | 22.50              |                    |
|                      | 8               | LOW       | Q16        | 20.21      | 20.15 | 20.21 | 21.50              |                    |
|                      |                 | MID       | Q16        | 20.49      | 20.07 | 20.24 | 21.50              |                    |
|                      |                 | HIGH      | Q16        | 20.30      | 20.25 | 20.08 | 21.50              |                    |
|                      | 15              | LOW       | Q16        | 20.38      | 20.15 | 20.15 | 21.50              |                    |
|                      | 3               | 1         | LOW        | 64QAM      | 20.58 | 20.53 | 20.55              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 20.60 | 20.77 | 20.79              | 21.50              |
| HIGH                 |                 |           | 64QAM      | 20.53      | 20.81 | 20.39 | 21.50              |                    |
| 8                    |                 | LOW       | 64QAM      | 19.13      | 19.16 | 18.98 | 20.50              |                    |
|                      |                 | MID       | 64QAM      | 19.42      | 19.27 | 19.23 | 20.50              |                    |
|                      |                 | HIGH      | 64QAM      | 19.54      | 19.26 | 18.95 | 20.50              |                    |
| 15                   |                 | LOW       | 64QAM      | 19.29      | 19.26 | 19.34 | 20.50              |                    |
| Bandwidth (MHz)      |                 | RB Size   | RB offset  | Modulation | 19975 | 20175 | 20375              | Tune-up power(dBm) |
| 5                    |                 | 1         | LOW        | QPSK       | 22.28 | 22.08 | 22.06              | 22.50              |
|                      | MID             |           | QPSK       | 22.25      | 22.24 | 22.37 | 22.50              |                    |
|                      | HIGH            |           | QPSK       | 22.20      | 22.32 | 21.97 | 22.50              |                    |
|                      | 36              | LOW       | QPSK       | 21.17      | 21.25 | 21.25 | 22.50              |                    |
|                      |                 | MID       | QPSK       | 21.46      | 21.28 | 21.39 | 22.50              |                    |
|                      |                 | HIGH      | QPSK       | 21.22      | 21.27 | 21.02 | 22.50              |                    |
|                      | 75              | LOW       | QPSK       | 21.41      | 21.21 | 21.10 | 22.50              |                    |
|                      | 5               | 1         | LOW        | Q16        | 21.60 | 21.56 | 21.35              | 22.50              |
|                      |                 |           | MID        | Q16        | 21.67 | 21.68 | 21.53              | 22.50              |
| HIGH                 |                 |           | Q16        | 21.63      | 21.54 | 21.43 | 22.50              |                    |
| 36                   |                 | LOW       | Q16        | 20.28      | 20.12 | 20.03 | 21.50              |                    |
|                      |                 | MID       | Q16        | 20.32      | 20.07 | 20.30 | 21.50              |                    |
|                      |                 | HIGH      | Q16        | 20.27      | 20.15 | 20.04 | 21.50              |                    |
| 75                   |                 | LOW       | Q16        | 20.24      | 20.08 | 20.07 | 21.50              |                    |
| 5                    |                 | 1         | LOW        | 64QAM      | 20.42 | 20.57 | 20.49              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 20.65 | 20.95 | 20.81              | 21.50              |
|                      | HIGH            |           | 64QAM      | 20.54      | 20.52 | 20.49 | 21.50              |                    |
|                      | 36              | LOW       | 64QAM      | 19.10      | 19.10 | 19.04 | 20.50              |                    |
|                      |                 | MID       | 64QAM      | 19.29      | 19.29 | 19.15 | 20.50              |                    |
|                      |                 | HIGH      | 64QAM      | 19.46      | 19.10 | 19.13 | 20.50              |                    |
|                      | 75              | LOW       | 64QAM      | 19.25      | 19.19 | 19.35 | 20.50              |                    |

| LTE B4-State1 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|----------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)      | RB Size         | RB offset | Modulation | 20000      | 20175 | 20350 | Tune-up power(dBm) |                    |
| 10                   | 1               | LOW       | QPSK       | 22.09      | 22.09 | 22.12 | 22.50              |                    |
|                      |                 | MID       | QPSK       | 22.21      | 22.14 | 22.36 | 22.50              |                    |
|                      |                 | HIGH      | QPSK       | 22.27      | 22.14 | 21.84 | 22.50              |                    |
|                      | 50              | LOW       | QPSK       | 21.20      | 21.32 | 21.17 | 22.50              |                    |
|                      |                 | MID       | QPSK       | 21.27      | 21.18 | 21.20 | 22.50              |                    |
|                      |                 | HIGH      | QPSK       | 21.24      | 21.26 | 21.25 | 22.50              |                    |
|                      | 100             | LOW       | QPSK       | 21.32      | 21.02 | 21.25 | 22.50              |                    |
|                      | 10              | 1         | LOW        | Q16        | 21.55 | 21.59 | 21.34              | 22.50              |
|                      |                 |           | MID        | Q16        | 21.83 | 21.82 | 21.59              | 22.50              |
| HIGH                 |                 |           | Q16        | 21.53      | 21.54 | 21.53 | 22.50              |                    |
| 50                   |                 | LOW       | Q16        | 20.21      | 20.23 | 20.16 | 21.50              |                    |
|                      |                 | MID       | Q16        | 20.35      | 20.25 | 20.34 | 21.50              |                    |
|                      |                 | HIGH      | Q16        | 20.41      | 20.27 | 20.20 | 21.50              |                    |
| 100                  |                 | LOW       | Q16        | 20.26      | 20.32 | 20.25 | 21.50              |                    |
| 10                   |                 | 1         | LOW        | 64QAM      | 20.64 | 20.54 | 20.37              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 20.73 | 20.88 | 20.58              | 21.50              |
|                      | HIGH            |           | 64QAM      | 20.63      | 20.55 | 20.26 | 21.50              |                    |
|                      | 50              | LOW       | 64QAM      | 19.31      | 19.07 | 19.08 | 20.50              |                    |
|                      |                 | MID       | 64QAM      | 19.12      | 19.19 | 19.25 | 20.50              |                    |
|                      |                 | HIGH      | 64QAM      | 19.32      | 19.05 | 19.13 | 20.50              |                    |
|                      | 100             | LOW       | 64QAM      | 19.26      | 19.32 | 19.26 | 20.50              |                    |
|                      | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20025 | 20175 | 20325              | Tune-up power(dBm) |
|                      | 15              | 1         | LOW        | QPSK       | 22.29 | 22.22 | 22.00              | 22.50              |
| MID                  |                 |           | QPSK       | 22.34      | 22.30 | 22.31 | 22.50              |                    |
| HIGH                 |                 |           | QPSK       | 22.08      | 22.14 | 21.91 | 22.50              |                    |
| 36                   |                 | LOW       | QPSK       | 21.27      | 21.26 | 21.11 | 22.50              |                    |
|                      |                 | MID       | QPSK       | 21.46      | 21.28 | 21.28 | 22.50              |                    |
|                      |                 | HIGH      | QPSK       | 21.44      | 21.26 | 21.16 | 22.50              |                    |
| 75                   |                 | LOW       | QPSK       | 21.35      | 21.04 | 21.07 | 22.50              |                    |
| 15                   |                 | 1         | LOW        | Q16        | 21.54 | 21.69 | 21.54              | 22.50              |
|                      |                 |           | MID        | Q16        | 21.81 | 21.67 | 21.79              | 22.50              |
|                      | HIGH            |           | Q16        | 21.57      | 21.56 | 21.57 | 22.50              |                    |
|                      | 36              | LOW       | Q16        | 20.32      | 20.20 | 20.02 | 21.50              |                    |
|                      |                 | MID       | Q16        | 20.23      | 20.35 | 20.18 | 21.50              |                    |
|                      |                 | HIGH      | Q16        | 20.39      | 20.09 | 20.22 | 21.50              |                    |
|                      | 75              | LOW       | Q16        | 20.20      | 20.13 | 20.14 | 21.50              |                    |
|                      | 15              | 1         | LOW        | 64QAM      | 20.64 | 20.65 | 20.28              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 20.83 | 20.89 | 20.71              | 21.50              |
| HIGH                 |                 |           | 64QAM      | 20.57      | 20.67 | 20.34 | 21.50              |                    |
| 36                   |                 | LOW       | 64QAM      | 19.01      | 19.28 | 19.03 | 20.50              |                    |
|                      |                 | MID       | 64QAM      | 19.20      | 19.25 | 19.28 | 20.50              |                    |
|                      |                 | HIGH      | 64QAM      | 19.38      | 19.11 | 19.02 | 20.50              |                    |
| 75                   |                 | LOW       | 64QAM      | 19.26      | 19.35 | 19.22 | 20.50              |                    |
| Bandwidth (MHz)      |                 | RB Size   | RB offset  | Modulation | 20050 | 20175 | 20300              | Tune-up power(dBm) |
| 20                   |                 | 1         | LOW        | QPSK       | 22.21 | 22.14 | 22.05              | 22.50              |
|                      | MID             |           | QPSK       | 22.29      | 22.18 | 22.23 | 22.50              |                    |
|                      | HIGH            |           | QPSK       | 22.18      | 22.29 | 21.99 | 22.50              |                    |
|                      | 50              | LOW       | QPSK       | 21.30      | 21.17 | 21.17 | 22.50              |                    |
|                      |                 | MID       | QPSK       | 21.33      | 21.33 | 21.25 | 22.50              |                    |
|                      |                 | HIGH      | QPSK       | 21.32      | 21.20 | 21.15 | 22.50              |                    |
|                      | 100             | LOW       | QPSK       | 21.29      | 21.14 | 21.15 | 22.50              |                    |
|                      | 20              | 1         | LOW        | Q16        | 21.66 | 21.56 | 21.47              | 22.50              |
|                      |                 |           | MID        | Q16        | 21.78 | 21.73 | 21.68              | 22.50              |
| HIGH                 |                 |           | Q16        | 21.65      | 21.61 | 21.48 | 22.50              |                    |
| 50                   |                 | LOW       | Q16        | 20.24      | 20.18 | 20.13 | 21.50              |                    |
|                      |                 | MID       | Q16        | 20.34      | 20.20 | 20.21 | 21.50              |                    |
|                      |                 | HIGH      | Q16        | 20.30      | 20.19 | 20.07 | 21.50              |                    |
| 100                  |                 | LOW       | Q16        | 20.30      | 20.17 | 20.12 | 21.50              |                    |
| 20                   |                 | 1         | LOW        | 64QAM      | 20.65 | 20.48 | 20.37              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 20.66 | 20.87 | 20.65              | 21.50              |
|                      | HIGH            |           | 64QAM      | 20.50      | 20.74 | 20.34 | 21.50              |                    |
|                      | 50              | LOW       | 64QAM      | 19.36      | 19.19 | 19.16 | 20.50              |                    |
|                      |                 | MID       | 64QAM      | 19.40      | 19.34 | 19.14 | 20.50              |                    |
|                      |                 | HIGH      | 64QAM      | 19.35      | 19.13 | 18.99 | 20.50              |                    |
|                      | 100             | LOW       | 64QAM      | 19.38      | 19.15 | 19.19 | 20.50              |                    |

| LTE B4-State2&4 -Ant.4 |         |           |            |       |       |       |                    |       |
|------------------------|---------|-----------|------------|-------|-------|-------|--------------------|-------|
| Bandwidth (MHz)        | RB Size | RB offset | Modulation | 19957 | 20175 | 20393 | Tune-up power(dBm) |       |
| 1.4                    | 1       | LOW       | QPSK       | 16.09 | 16.00 | 15.82 | 17.50              |       |
|                        |         | MID       | QPSK       | 16.11 | 15.99 | 15.82 | 17.50              |       |
|                        |         | HIGH      | QPSK       | 16.10 | 16.01 | 15.82 | 17.50              |       |
|                        | 3       | LOW       | QPSK       | 16.10 | 16.00 | 15.84 | 17.50              |       |
|                        |         | MID       | QPSK       | 16.15 | 16.01 | 15.86 | 17.50              |       |
|                        |         | HIGH      | QPSK       | 16.10 | 15.98 | 15.86 | 17.50              |       |
|                        | 6       | LOW       | QPSK       | 16.11 | 16.01 | 15.83 | 17.50              |       |
|                        | 1.4     | 1         | LOW        | Q16   | 16.22 | 16.40 | 15.90              | 17.50 |
|                        |         |           | MID        | Q16   | 16.24 | 16.38 | 15.94              | 17.50 |
| HIGH                   |         |           | Q16        | 16.24 | 16.40 | 15.93 | 17.50              |       |
| 3                      |         | LOW       | Q16        | 16.18 | 16.18 | 16.02 | 17.50              |       |
|                        |         | MID       | Q16        | 16.15 | 16.17 | 16.06 | 17.50              |       |
|                        |         | HIGH      | Q16        | 16.15 | 16.16 | 16.00 | 17.50              |       |
| 6                      |         | LOW       | Q16        | 16.23 | 15.93 | 16.03 | 17.50              |       |
| 1.4                    |         | 1         | LOW        | 64QAM | 16.07 | 16.50 | 15.86              | 17.50 |
|                        |         |           | MID        | 64QAM | 16.33 | 16.41 | 16.08              | 17.50 |
|                        | HIGH    |           | 64QAM      | 16.10 | 16.44 | 15.78 | 17.50              |       |
|                        | 3       | LOW       | 64QAM      | 16.27 | 16.17 | 16.16 | 17.50              |       |
|                        |         | MID       | 64QAM      | 16.19 | 16.21 | 16.16 | 17.50              |       |
|                        |         | HIGH      | 64QAM      | 16.10 | 16.09 | 16.13 | 17.50              |       |
|                        | 6       | LOW       | 64QAM      | 16.18 | 15.99 | 16.15 | 17.50              |       |
|                        | 3       | 1         | LOW        | QPSK  | 16.01 | 15.92 | 15.98              | 17.50 |
|                        |         |           | MID        | QPSK  | 16.11 | 16.13 | 15.97              | 17.50 |
| HIGH                   |         |           | QPSK       | 15.98 | 16.00 | 15.85 | 17.50              |       |
| 8                      |         | LOW       | QPSK       | 16.14 | 16.15 | 15.99 | 17.50              |       |
|                        |         | MID       | QPSK       | 16.02 | 15.95 | 16.13 | 17.50              |       |
|                        |         | HIGH      | QPSK       | 16.03 | 15.98 | 15.78 | 17.50              |       |
| 15                     |         | LOW       | QPSK       | 15.96 | 16.04 | 16.06 | 17.50              |       |
| 3                      |         | 1         | LOW        | Q16   | 16.48 | 16.40 | 16.24              | 17.50 |
|                        |         |           | MID        | Q16   | 16.60 | 16.54 | 16.28              | 17.50 |
|                        | HIGH    |           | Q16        | 16.45 | 16.31 | 16.18 | 17.50              |       |
|                        | 8       | LOW       | Q16        | 16.19 | 16.03 | 16.01 | 17.50              |       |
|                        |         | MID       | Q16        | 16.12 | 15.98 | 15.95 | 17.50              |       |
|                        |         | HIGH      | Q16        | 16.01 | 15.93 | 15.84 | 17.50              |       |
|                        | 15      | LOW       | Q16        | 16.24 | 15.90 | 15.92 | 17.50              |       |
|                        | 3       | 1         | LOW        | 64QAM | 16.44 | 16.30 | 16.24              | 17.50 |
|                        |         |           | MID        | 64QAM | 16.69 | 16.75 | 16.31              | 17.50 |
| HIGH                   |         |           | 64QAM      | 16.51 | 16.48 | 16.23 | 17.50              |       |
| 8                      |         | LOW       | 64QAM      | 16.20 | 15.74 | 16.06 | 17.50              |       |
|                        |         | MID       | 64QAM      | 16.16 | 16.06 | 15.85 | 17.50              |       |
|                        |         | HIGH      | 64QAM      | 16.28 | 15.70 | 15.65 | 17.50              |       |
| 15                     |         | LOW       | 64QAM      | 16.04 | 16.12 | 15.95 | 17.50              |       |
| 5                      |         | 1         | LOW        | QPSK  | 16.08 | 15.98 | 15.83              | 17.50 |
|                        |         |           | MID        | QPSK  | 15.90 | 15.91 | 15.93              | 17.50 |
|                        | HIGH    |           | QPSK       | 16.05 | 16.02 | 15.64 | 17.50              |       |
|                        | 36      | LOW       | QPSK       | 16.07 | 16.17 | 16.04 | 17.50              |       |
|                        |         | MID       | QPSK       | 16.07 | 15.99 | 15.99 | 17.50              |       |
|                        |         | HIGH      | QPSK       | 16.09 | 15.94 | 15.96 | 17.50              |       |
|                        | 75      | LOW       | QPSK       | 15.98 | 15.93 | 15.99 | 17.50              |       |
|                        | 5       | 1         | LOW        | Q16   | 16.49 | 16.36 | 16.21              | 17.50 |
|                        |         |           | MID        | Q16   | 16.34 | 16.41 | 16.24              | 17.50 |
| HIGH                   |         |           | Q16        | 16.00 | 16.26 | 16.12 | 17.50              |       |
| 36                     |         | LOW       | Q16        | 16.26 | 16.14 | 15.93 | 17.50              |       |
|                        |         | MID       | Q16        | 16.06 | 16.13 | 15.89 | 17.50              |       |
|                        |         | HIGH      | Q16        | 16.15 | 16.08 | 15.92 | 17.50              |       |
| 75                     |         | LOW       | Q16        | 16.17 | 15.98 | 15.90 | 17.50              |       |
| 5                      |         | 1         | LOW        | 64QAM | 16.63 | 16.53 | 16.34              | 17.50 |
|                        |         |           | MID        | 64QAM | 16.75 | 16.69 | 16.29              | 17.50 |
|                        | HIGH    |           | 64QAM      | 16.43 | 16.44 | 16.16 | 17.50              |       |
|                        | 36      | LOW       | 64QAM      | 16.21 | 15.73 | 15.97 | 17.50              |       |
|                        |         | MID       | 64QAM      | 16.08 | 15.90 | 15.92 | 17.50              |       |
|                        |         | HIGH      | 64QAM      | 16.03 | 15.73 | 15.75 | 17.50              |       |
|                        | 75      | LOW       | 64QAM      | 16.07 | 16.14 | 15.93 | 17.50              |       |

| LTE B4-State2&4 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)        | RB Size         | RB offset | Modulation | 20000      | 20175 | 20350 | Tune-up power(dBm) |                    |
| 10                     | 1               | LOW       | QPSK       | 16.09      | 16.04 | 15.77 | 17.50              |                    |
|                        |                 | MID       | QPSK       | 15.84      | 16.00 | 16.05 | 17.50              |                    |
|                        |                 | HIGH      | QPSK       | 15.91      | 16.03 | 15.80 | 17.50              |                    |
|                        | 50              | LOW       | QPSK       | 15.93      | 16.15 | 15.99 | 17.50              |                    |
|                        |                 | MID       | QPSK       | 15.98      | 16.05 | 16.14 | 17.50              |                    |
|                        |                 | HIGH      | QPSK       | 16.19      | 15.93 | 15.96 | 17.50              |                    |
|                        | 100             | LOW       | QPSK       | 16.10      | 15.97 | 15.80 | 17.50              |                    |
|                        | 10              | 1         | LOW        | Q16        | 16.53 | 16.52 | 16.19              | 17.50              |
|                        |                 |           | MID        | Q16        | 16.23 | 16.45 | 16.55              | 17.50              |
| HIGH                   |                 |           | Q16        | 16.41      | 16.37 | 16.21 | 17.50              |                    |
| 50                     |                 | LOW       | Q16        | 16.04      | 15.98 | 16.02 | 17.50              |                    |
|                        |                 | MID       | Q16        | 16.15      | 15.98 | 15.94 | 17.50              |                    |
|                        |                 | HIGH      | Q16        | 16.10      | 16.01 | 15.99 | 17.50              |                    |
| 100                    |                 | LOW       | Q16        | 15.99      | 16.08 | 15.88 | 17.50              |                    |
| 10                     |                 | 1         | LOW        | 64QAM      | 16.59 | 16.33 | 16.12              | 17.50              |
|                        |                 |           | MID        | 64QAM      | 16.68 | 16.46 | 16.38              | 17.50              |
|                        | HIGH            |           | 64QAM      | 16.58      | 16.41 | 16.27 | 17.50              |                    |
|                        | 50              | LOW       | 64QAM      | 16.26      | 15.79 | 15.99 | 17.50              |                    |
|                        |                 | MID       | 64QAM      | 16.13      | 15.96 | 15.91 | 17.50              |                    |
|                        |                 | HIGH      | 64QAM      | 16.22      | 15.85 | 15.66 | 17.50              |                    |
|                        | 100             | LOW       | 64QAM      | 16.21      | 16.00 | 15.80 | 17.50              |                    |
|                        | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20025 | 20175 | 20325              | Tune-up power(dBm) |
|                        | 15              | 1         | LOW        | QPSK       | 15.92 | 15.82 | 15.76              | 17.50              |
| MID                    |                 |           | QPSK       | 15.88      | 15.99 | 15.85 | 17.50              |                    |
| HIGH                   |                 |           | QPSK       | 15.98      | 16.15 | 15.73 | 17.50              |                    |
| 36                     |                 | LOW       | QPSK       | 16.11      | 16.07 | 15.86 | 17.50              |                    |
|                        |                 | MID       | QPSK       | 15.97      | 16.04 | 16.04 | 17.50              |                    |
|                        |                 | HIGH      | QPSK       | 16.09      | 15.90 | 15.98 | 17.50              |                    |
| 75                     |                 | LOW       | QPSK       | 15.95      | 15.96 | 15.82 | 17.50              |                    |
| 15                     |                 | 1         | LOW        | Q16        | 16.20 | 16.25 | 16.15              | 17.50              |
|                        |                 |           | MID        | Q16        | 16.23 | 16.46 | 16.34              | 17.50              |
|                        | HIGH            |           | Q16        | 16.48      | 16.37 | 16.14 | 17.50              |                    |
|                        | 36              | LOW       | Q16        | 16.01      | 16.12 | 15.94 | 17.50              |                    |
|                        |                 | MID       | Q16        | 16.07      | 15.95 | 16.06 | 17.50              |                    |
|                        |                 | HIGH      | Q16        | 16.06      | 15.86 | 15.97 | 17.50              |                    |
|                        | 75              | LOW       | Q16        | 16.11      | 15.81 | 15.81 | 17.50              |                    |
|                        | 15              | 1         | LOW        | 64QAM      | 16.51 | 16.42 | 16.13              | 17.50              |
|                        |                 |           | MID        | 64QAM      | 16.63 | 16.57 | 16.27              | 17.50              |
| HIGH                   |                 |           | 64QAM      | 16.56      | 16.32 | 16.14 | 17.50              |                    |
| 36                     |                 | LOW       | 64QAM      | 16.08      | 15.82 | 15.98 | 17.50              |                    |
|                        |                 | MID       | 64QAM      | 16.11      | 15.85 | 16.02 | 17.50              |                    |
|                        |                 | HIGH      | 64QAM      | 16.29      | 15.90 | 15.74 | 17.50              |                    |
| 75                     |                 | LOW       | 64QAM      | 16.09      | 16.00 | 15.97 | 17.50              |                    |
| Bandwidth (MHz)        |                 | RB Size   | RB offset  | Modulation | 20050 | 20175 | 20300              | Tune-up power(dBm) |
| 20                     |                 | 1         | LOW        | QPSK       | 15.99 | 15.94 | 15.85              | 17.50              |
|                        | MID             |           | QPSK       | 15.94      | 16.05 | 15.99 | 17.50              |                    |
|                        | HIGH            |           | QPSK       | 15.98      | 16.09 | 15.78 | 17.50              |                    |
|                        | 50              | LOW       | QPSK       | 16.06      | 16.10 | 15.98 | 17.50              |                    |
|                        |                 | MID       | QPSK       | 15.96      | 16.00 | 15.99 | 17.50              |                    |
|                        |                 | HIGH      | QPSK       | 16.05      | 15.95 | 15.87 | 17.50              |                    |
|                        | 100             | LOW       | QPSK       | 16.07      | 15.93 | 15.91 | 17.50              |                    |
|                        | 20              | 1         | LOW        | Q16        | 16.48 | 16.40 | 16.27              | 17.50              |
|                        |                 |           | MID        | Q16        | 16.40 | 16.55 | 16.43              | 17.50              |
| HIGH                   |                 |           | Q16        | 16.47      | 16.39 | 16.20 | 17.50              |                    |
| 50                     |                 | LOW       | Q16        | 16.11      | 15.99 | 15.94 | 17.50              |                    |
|                        |                 | MID       | Q16        | 16.12      | 15.98 | 15.94 | 17.50              |                    |
|                        |                 | HIGH      | Q16        | 16.09      | 15.94 | 15.85 | 17.50              |                    |
| 100                    |                 | LOW       | Q16        | 16.09      | 15.94 | 15.89 | 17.50              |                    |
| 20                     |                 | 1         | LOW        | 64QAM      | 16.39 | 16.53 | 16.20              | 17.50              |
|                        |                 |           | MID        | 64QAM      | 16.56 | 16.58 | 16.38              | 17.50              |
|                        | HIGH            |           | 64QAM      | 16.43      | 16.38 | 16.11 | 17.50              |                    |
|                        | 50              | LOW       | 64QAM      | 16.18      | 15.99 | 16.04 | 17.50              |                    |
|                        |                 | MID       | 64QAM      | 16.04      | 15.91 | 16.01 | 17.50              |                    |
|                        |                 | HIGH      | 64QAM      | 16.08      | 15.84 | 15.91 | 17.50              |                    |
|                        | 100             | LOW       | 64QAM      | 16.23      | 16.09 | 15.88 | 17.50              |                    |

| LTE B4-State3&5 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)        | RB Size         | RB offset | Modulation | 19957      | 20175 | 20393 | Tune-up power(dBm) |                    |
| 1.4                    | 1               | LOW       | QPSK       | 19.09      | 18.99 | 18.85 | 20.50              |                    |
|                        |                 | MID       | QPSK       | 19.06      | 18.98 | 18.84 | 20.50              |                    |
|                        |                 | HIGH      | QPSK       | 19.09      | 18.99 | 18.81 | 20.50              |                    |
|                        | 3               | LOW       | QPSK       | 19.14      | 19.02 | 18.88 | 20.50              |                    |
|                        |                 | MID       | QPSK       | 19.13      | 19.01 | 18.89 | 20.50              |                    |
|                        |                 | HIGH      | QPSK       | 19.12      | 18.99 | 18.88 | 20.50              |                    |
|                        | 6               | LOW       | QPSK       | 19.10      | 19.05 | 18.87 | 20.50              |                    |
|                        | 1.4             | 1         | LOW        | Q16        | 19.27 | 19.39 | 18.93              | 20.50              |
|                        |                 |           | MID        | Q16        | 19.27 | 19.39 | 18.93              | 20.50              |
| HIGH                   |                 |           | Q16        | 19.26      | 19.40 | 18.96 | 20.50              |                    |
| 3                      |                 | LOW       | Q16        | 19.14      | 19.23 | 19.07 | 20.50              |                    |
|                        |                 | MID       | Q16        | 19.17      | 19.16 | 19.06 | 20.50              |                    |
|                        |                 | HIGH      | Q16        | 19.18      | 19.19 | 19.02 | 20.50              |                    |
| 6                      |                 | LOW       | Q16        | 19.27      | 18.92 | 19.04 | 20.50              |                    |
| 1.4                    |                 | 1         | LOW        | 64QAM      | 19.13 | 19.43 | 19.02              | 20.50              |
|                        |                 |           | MID        | 64QAM      | 19.31 | 19.54 | 18.94              | 20.50              |
|                        | HIGH            |           | 64QAM      | 19.28      | 19.37 | 18.93 | 20.50              |                    |
|                        | 3               | LOW       | 64QAM      | 19.08      | 19.36 | 19.15 | 20.50              |                    |
|                        |                 | MID       | 64QAM      | 19.07      | 19.27 | 19.01 | 20.50              |                    |
|                        |                 | HIGH      | 64QAM      | 19.24      | 19.21 | 19.08 | 20.50              |                    |
|                        | 6               | LOW       | 64QAM      | 19.42      | 19.03 | 18.98 | 20.50              |                    |
|                        | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 19965 | 20175 | 20385              | Tune-up power(dBm) |
|                        | 3               | 1         | LOW        | QPSK       | 18.90 | 18.97 | 18.88              | 20.50              |
| MID                    |                 |           | QPSK       | 18.89      | 19.24 | 19.05 | 20.50              |                    |
| HIGH                   |                 |           | QPSK       | 19.00      | 18.99 | 18.90 | 20.50              |                    |
| 8                      |                 | LOW       | QPSK       | 19.12      | 19.04 | 19.14 | 20.50              |                    |
|                        |                 | MID       | QPSK       | 19.00      | 19.13 | 18.91 | 20.50              |                    |
|                        |                 | HIGH      | QPSK       | 18.86      | 19.07 | 19.02 | 20.50              |                    |
| 15                     |                 | LOW       | QPSK       | 19.06      | 18.94 | 18.96 | 20.50              |                    |
| 3                      |                 | 1         | LOW        | Q16        | 19.37 | 19.39 | 19.14              | 20.50              |
|                        |                 |           | MID        | Q16        | 19.32 | 19.71 | 19.42              | 20.50              |
|                        | HIGH            |           | Q16        | 19.41      | 19.30 | 19.20 | 20.50              |                    |
|                        | 8               | LOW       | Q16        | 19.22      | 19.02 | 19.01 | 20.50              |                    |
|                        |                 | MID       | Q16        | 19.17      | 19.00 | 18.96 | 20.50              |                    |
|                        |                 | HIGH      | Q16        | 19.21      | 19.15 | 19.00 | 20.50              |                    |
|                        | 15              | LOW       | Q16        | 18.97      | 18.81 | 19.05 | 20.50              |                    |
|                        | 3               | 1         | LOW        | 64QAM      | 19.45 | 19.31 | 19.18              | 20.50              |
|                        |                 |           | MID        | 64QAM      | 19.58 | 19.51 | 19.45              | 20.50              |
| HIGH                   |                 |           | 64QAM      | 19.51      | 19.28 | 19.22 | 20.50              |                    |
| 8                      |                 | LOW       | 64QAM      | 19.26      | 18.86 | 19.11 | 20.50              |                    |
|                        |                 | MID       | 64QAM      | 18.91      | 19.03 | 18.94 | 20.50              |                    |
|                        |                 | HIGH      | 64QAM      | 19.09      | 19.14 | 18.90 | 20.50              |                    |
| 15                     |                 | LOW       | 64QAM      | 18.94      | 18.82 | 19.01 | 20.50              |                    |
| Bandwidth (MHz)        |                 | RB Size   | RB offset  | Modulation | 19975 | 20175 | 20375              | Tune-up power(dBm) |
| 5                      |                 | 1         | LOW        | QPSK       | 19.03 | 18.95 | 18.97              | 20.50              |
|                        | MID             |           | QPSK       | 19.00      | 19.09 | 18.93 | 20.50              |                    |
|                        | HIGH            |           | QPSK       | 18.99      | 19.09 | 18.78 | 20.50              |                    |
|                        | 36              | LOW       | QPSK       | 19.00      | 19.06 | 18.94 | 20.50              |                    |
|                        |                 | MID       | QPSK       | 19.08      | 19.04 | 19.11 | 20.50              |                    |
|                        |                 | HIGH      | QPSK       | 19.11      | 18.97 | 18.96 | 20.50              |                    |
|                        | 75              | LOW       | QPSK       | 19.08      | 18.87 | 18.81 | 20.50              |                    |
|                        | 5               | 1         | LOW        | Q16        | 19.46 | 19.36 | 19.16              | 20.50              |
|                        |                 |           | MID        | Q16        | 19.48 | 19.48 | 19.20              | 20.50              |
| HIGH                   |                 |           | Q16        | 19.40      | 19.30 | 19.14 | 20.50              |                    |
| 36                     |                 | LOW       | Q16        | 19.02      | 19.10 | 18.93 | 20.50              |                    |
|                        |                 | MID       | Q16        | 19.23      | 18.93 | 19.03 | 20.50              |                    |
|                        |                 | HIGH      | Q16        | 19.03      | 19.07 | 18.93 | 20.50              |                    |
| 75                     |                 | LOW       | Q16        | 19.01      | 18.84 | 19.03 | 20.50              |                    |
| 5                      |                 | 1         | LOW        | 64QAM      | 19.44 | 19.35 | 19.11              | 20.50              |
|                        |                 |           | MID        | 64QAM      | 19.67 | 19.48 | 19.52              | 20.50              |
|                        | HIGH            |           | 64QAM      | 19.48      | 19.26 | 19.27 | 20.50              |                    |
|                        | 36              | LOW       | 64QAM      | 19.09      | 19.01 | 19.09 | 20.50              |                    |
|                        |                 | MID       | 64QAM      | 19.07      | 19.11 | 18.85 | 20.50              |                    |
|                        |                 | HIGH      | 64QAM      | 18.95      | 19.11 | 18.67 | 20.50              |                    |
|                        | 75              | LOW       | 64QAM      | 19.16      | 18.86 | 18.80 | 20.50              |                    |

| LTE B4-State3&5 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)        | RB Size         | RB offset | Modulation | 20000      | 20175 | 20350 | Tune-up power(dBm) |                    |
| 10                     | 1               | LOW       | QPSK       | 18.92      | 18.84 | 18.78 | 20.50              |                    |
|                        |                 | MID       | QPSK       | 18.90      | 18.96 | 19.06 | 20.50              |                    |
|                        |                 | HIGH      | QPSK       | 19.04      | 19.23 | 18.89 | 20.50              |                    |
|                        | 50              | LOW       | QPSK       | 18.95      | 18.98 | 18.91 | 20.50              |                    |
|                        |                 | MID       | QPSK       | 19.16      | 19.21 | 18.95 | 20.50              |                    |
|                        |                 | HIGH      | QPSK       | 18.98      | 18.91 | 18.87 | 20.50              |                    |
|                        | 100             | LOW       | QPSK       | 19.16      | 18.96 | 19.07 | 20.50              |                    |
|                        | 10              | 1         | LOW        | Q16        | 19.35 | 19.34 | 19.26              | 20.50              |
|                        |                 |           | MID        | Q16        | 19.36 | 19.39 | 19.50              | 20.50              |
| HIGH                   |                 |           | Q16        | 19.42      | 19.50 | 19.33 | 20.50              |                    |
| 50                     |                 | LOW       | Q16        | 19.09      | 19.02 | 19.10 | 20.50              |                    |
|                        |                 | MID       | Q16        | 19.06      | 18.90 | 18.98 | 20.50              |                    |
|                        |                 | HIGH      | Q16        | 19.09      | 19.10 | 18.95 | 20.50              |                    |
| 100                    |                 | LOW       | Q16        | 19.10      | 19.03 | 18.96 | 20.50              |                    |
| 10                     |                 | 1         | LOW        | 64QAM      | 19.34 | 19.45 | 19.10              | 20.50              |
|                        |                 |           | MID        | 64QAM      | 19.73 | 19.40 | 19.52              | 20.50              |
|                        | HIGH            |           | 64QAM      | 19.58      | 19.45 | 19.16 | 20.50              |                    |
|                        | 50              | LOW       | 64QAM      | 19.12      | 18.92 | 19.11 | 20.50              |                    |
|                        |                 | MID       | 64QAM      | 19.14      | 19.08 | 19.03 | 20.50              |                    |
|                        |                 | HIGH      | 64QAM      | 18.84      | 19.12 | 18.90 | 20.50              |                    |
|                        | 100             | LOW       | 64QAM      | 19.05      | 18.71 | 18.84 | 20.50              |                    |
|                        | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20025 | 20175 | 20325              | Tune-up power(dBm) |
|                        | 15              | 1         | LOW        | QPSK       | 19.08 | 18.83 | 18.81              | 20.50              |
| MID                    |                 |           | QPSK       | 18.96      | 19.23 | 19.09 | 20.50              |                    |
| HIGH                   |                 |           | QPSK       | 19.01      | 19.06 | 18.67 | 20.50              |                    |
| 36                     |                 | LOW       | QPSK       | 19.20      | 19.02 | 18.85 | 20.50              |                    |
|                        |                 | MID       | QPSK       | 19.14      | 19.06 | 19.09 | 20.50              |                    |
|                        |                 | HIGH      | QPSK       | 18.88      | 18.90 | 18.89 | 20.50              |                    |
| 75                     |                 | LOW       | QPSK       | 19.00      | 18.93 | 18.86 | 20.50              |                    |
| 15                     |                 | 1         | LOW        | Q16        | 19.39 | 19.28 | 19.26              | 20.50              |
|                        |                 |           | MID        | Q16        | 19.38 | 19.51 | 19.59              | 20.50              |
|                        | HIGH            |           | Q16        | 19.45      | 19.39 | 19.12 | 20.50              |                    |
|                        | 36              | LOW       | Q16        | 19.05      | 19.05 | 18.90 | 20.50              |                    |
|                        |                 | MID       | Q16        | 19.27      | 19.02 | 18.98 | 20.50              |                    |
|                        |                 | HIGH      | Q16        | 19.22      | 19.03 | 18.99 | 20.50              |                    |
|                        | 75              | LOW       | Q16        | 18.99      | 18.94 | 19.01 | 20.50              |                    |
|                        | 15              | 1         | LOW        | 64QAM      | 19.34 | 19.51 | 19.31              | 20.50              |
|                        |                 |           | MID        | 64QAM      | 19.62 | 19.56 | 19.68              | 20.50              |
| HIGH                   |                 |           | 64QAM      | 19.34      | 19.54 | 19.20 | 20.50              |                    |
| 36                     |                 | LOW       | 64QAM      | 19.21      | 18.93 | 19.12 | 20.50              |                    |
|                        |                 | MID       | 64QAM      | 18.87      | 18.94 | 19.08 | 20.50              |                    |
|                        |                 | HIGH      | 64QAM      | 18.94      | 19.20 | 18.86 | 20.50              |                    |
| 75                     |                 | LOW       | 64QAM      | 19.01      | 18.95 | 18.89 | 20.50              |                    |
| Bandwidth (MHz)        |                 | RB Size   | RB offset  | Modulation | 20050 | 20175 | 20300              | Tune-up power(dBm) |
| 20                     |                 | 1         | LOW        | QPSK       | 18.97 | 18.94 | 18.87              | 20.50              |
|                        | MID             |           | QPSK       | 19.01      | 19.10 | 19.05 | 20.50              |                    |
|                        | HIGH            |           | QPSK       | 19.03      | 19.12 | 18.81 | 20.50              |                    |
|                        | 50              | LOW       | QPSK       | 19.07      | 19.00 | 18.99 | 20.50              |                    |
|                        |                 | MID       | QPSK       | 19.06      | 19.10 | 18.97 | 20.50              |                    |
|                        |                 | HIGH      | QPSK       | 18.96      | 18.96 | 18.88 | 20.50              |                    |
|                        | 100             | LOW       | QPSK       | 19.07      | 18.98 | 18.92 | 20.50              |                    |
|                        | 20              | 1         | LOW        | Q16        | 19.33 | 19.43 | 19.28              | 20.50              |
|                        |                 |           | MID        | Q16        | 19.44 | 19.59 | 19.46              | 20.50              |
| HIGH                   |                 |           | Q16        | 19.49      | 19.45 | 19.22 | 20.50              |                    |
| 50                     |                 | LOW       | Q16        | 19.13      | 19.03 | 18.97 | 20.50              |                    |
|                        |                 | MID       | Q16        | 19.16      | 19.03 | 19.01 | 20.50              |                    |
|                        |                 | HIGH      | Q16        | 19.10      | 19.00 | 18.91 | 20.50              |                    |
| 100                    |                 | LOW       | Q16        | 19.10      | 18.96 | 18.96 | 20.50              |                    |
| 20                     |                 | 1         | LOW        | 64QAM      | 19.52 | 19.37 | 19.18              | 20.50              |
|                        |                 |           | MID        | 64QAM      | 19.72 | 19.71 | 19.31              | 20.50              |
|                        | HIGH            |           | 64QAM      | 19.53      | 19.59 | 19.16 | 20.50              |                    |
|                        | 50              | LOW       | 64QAM      | 18.98      | 18.90 | 18.88 | 20.50              |                    |
|                        |                 | MID       | 64QAM      | 19.17      | 19.11 | 19.14 | 20.50              |                    |
|                        |                 | HIGH      | 64QAM      | 19.12      | 18.95 | 18.94 | 20.50              |                    |
|                        | 100             | LOW       | 64QAM      | 19.17      | 18.81 | 19.04 | 20.50              |                    |

| LTE B4-State6 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|----------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)      | RB Size         | RB offset | Modulation | 19957      | 20175 | 20393 | Tune-up power(dBm) |                    |
| 1.4                  | 1               | LOW       | QPSK       | 15.02      | 14.89 | 14.74 | 16.50              |                    |
|                      |                 | MID       | QPSK       | 15.02      | 14.92 | 14.75 | 16.50              |                    |
|                      |                 | HIGH      | QPSK       | 15.04      | 14.91 | 14.73 | 16.50              |                    |
|                      | 3               | LOW       | QPSK       | 15.02      | 14.92 | 14.76 | 16.50              |                    |
|                      |                 | MID       | QPSK       | 15.03      | 14.93 | 14.79 | 16.50              |                    |
|                      |                 | HIGH      | QPSK       | 15.01      | 14.89 | 14.78 | 16.50              |                    |
|                      | 6               | LOW       | QPSK       | 15.02      | 14.93 | 14.76 | 16.50              |                    |
|                      | 1.4             | 1         | LOW        | Q16        | 15.16 | 15.30 | 14.83              | 16.50              |
|                      |                 |           | MID        | Q16        | 15.17 | 15.31 | 14.87              | 16.50              |
| HIGH                 |                 |           | Q16        | 15.18      | 15.29 | 14.84 | 16.50              |                    |
| 3                    |                 | LOW       | Q16        | 15.08      | 15.14 | 14.96 | 16.50              |                    |
|                      |                 | MID       | Q16        | 15.09      | 15.06 | 14.96 | 16.50              |                    |
|                      |                 | HIGH      | Q16        | 15.07      | 15.08 | 14.94 | 16.50              |                    |
| 6                    |                 | LOW       | Q16        | 15.15      | 14.84 | 14.92 | 16.50              |                    |
| 1.4                  |                 | 1         | LOW        | 64QAM      | 15.26 | 15.25 | 14.76              | 16.50              |
|                      |                 |           | MID        | 64QAM      | 15.20 | 15.22 | 14.94              | 16.50              |
|                      | HIGH            |           | 64QAM      | 15.14      | 15.16 | 14.95 | 16.50              |                    |
|                      | 3               | LOW       | 64QAM      | 15.14      | 15.25 | 15.02 | 16.50              |                    |
|                      |                 | MID       | 64QAM      | 15.24      | 15.10 | 15.07 | 16.50              |                    |
|                      |                 | HIGH      | 64QAM      | 14.93      | 15.09 | 15.09 | 16.50              |                    |
|                      | 6               | LOW       | 64QAM      | 15.08      | 14.79 | 14.94 | 16.50              |                    |
|                      | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 19965 | 20175 | 20385              | Tune-up power(dBm) |
|                      | 3               | 1         | LOW        | QPSK       | 14.74 | 14.88 | 14.91              | 16.50              |
| MID                  |                 |           | QPSK       | 14.89      | 15.01 | 14.95 | 16.50              |                    |
| HIGH                 |                 |           | QPSK       | 14.83      | 15.15 | 14.82 | 16.50              |                    |
| 8                    |                 | LOW       | QPSK       | 15.12      | 15.07 | 15.01 | 16.50              |                    |
|                      |                 | MID       | QPSK       | 14.95      | 14.94 | 14.76 | 16.50              |                    |
|                      |                 | HIGH      | QPSK       | 15.00      | 14.75 | 14.77 | 16.50              |                    |
| 15                   |                 | LOW       | QPSK       | 14.99      | 14.81 | 14.82 | 16.50              |                    |
| 3                    |                 | 1         | LOW        | Q16        | 15.24 | 15.27 | 15.13              | 16.50              |
|                      |                 |           | MID        | Q16        | 15.32 | 15.41 | 15.28              | 16.50              |
|                      | HIGH            |           | Q16        | 15.26      | 15.35 | 15.26 | 16.50              |                    |
|                      | 8               | LOW       | Q16        | 14.89      | 14.97 | 14.74 | 16.50              |                    |
|                      |                 | MID       | Q16        | 15.04      | 14.93 | 14.99 | 16.50              |                    |
|                      |                 | HIGH      | Q16        | 14.94      | 14.76 | 14.67 | 16.50              |                    |
|                      | 15              | LOW       | Q16        | 15.12      | 14.96 | 14.75 | 16.50              |                    |
|                      | 3               | 1         | LOW        | 64QAM      | 15.33 | 15.56 | 15.09              | 16.50              |
|                      |                 |           | MID        | 64QAM      | 15.39 | 15.74 | 15.42              | 16.50              |
| HIGH                 |                 |           | 64QAM      | 15.17      | 15.52 | 15.31 | 16.50              |                    |
| 8                    |                 | LOW       | 64QAM      | 14.87      | 14.87 | 14.79 | 16.50              |                    |
|                      |                 | MID       | 64QAM      | 15.14      | 15.02 | 14.88 | 16.50              |                    |
|                      |                 | HIGH      | 64QAM      | 15.04      | 14.76 | 14.78 | 16.50              |                    |
| 15                   |                 | LOW       | 64QAM      | 14.75      | 14.80 | 14.82 | 16.50              |                    |
| Bandwidth (MHz)      |                 | RB Size   | RB offset  | Modulation | 19975 | 20175 | 20375              | Tune-up power(dBm) |
| 5                    |                 | 1         | LOW        | QPSK       | 14.82 | 14.73 | 14.79              | 16.50              |
|                      | MID             |           | QPSK       | 14.72      | 14.92 | 14.95 | 16.50              |                    |
|                      | HIGH            |           | QPSK       | 14.82      | 15.00 | 14.78 | 16.50              |                    |
|                      | 36              | LOW       | QPSK       | 15.08      | 15.12 | 14.78 | 16.50              |                    |
|                      |                 | MID       | QPSK       | 14.86      | 15.00 | 14.91 | 16.50              |                    |
|                      |                 | HIGH      | QPSK       | 14.90      | 14.77 | 14.68 | 16.50              |                    |
|                      | 75              | LOW       | QPSK       | 15.02      | 14.82 | 14.97 | 16.50              |                    |
|                      | 5               | 1         | LOW        | Q16        | 15.27 | 15.20 | 15.15              | 16.50              |
|                      |                 |           | MID        | Q16        | 15.21 | 15.36 | 15.45              | 16.50              |
| HIGH                 |                 |           | Q16        | 15.29      | 15.41 | 15.20 | 16.50              |                    |
| 36                   |                 | LOW       | Q16        | 14.92      | 14.94 | 14.95 | 16.50              |                    |
|                      |                 | MID       | Q16        | 14.90      | 14.94 | 15.00 | 16.50              |                    |
|                      |                 | HIGH      | Q16        | 14.89      | 14.99 | 14.82 | 16.50              |                    |
| 75                   |                 | LOW       | Q16        | 15.01      | 14.86 | 14.71 | 16.50              |                    |
| 5                    |                 | 1         | LOW        | 64QAM      | 15.26 | 15.51 | 15.18              | 16.50              |
|                      |                 |           | MID        | 64QAM      | 15.47 | 15.70 | 15.43              | 16.50              |
|                      | HIGH            |           | 64QAM      | 15.16      | 15.27 | 15.10 | 16.50              |                    |
|                      | 36              | LOW       | 64QAM      | 14.86      | 15.02 | 14.70 | 16.50              |                    |
|                      |                 | MID       | 64QAM      | 15.17      | 14.96 | 14.95 | 16.50              |                    |
|                      |                 | HIGH      | 64QAM      | 14.83      | 14.85 | 14.65 | 16.50              |                    |
|                      | 75              | LOW       | 64QAM      | 14.84      | 14.65 | 14.87 | 16.50              |                    |



| LTE B4-State6 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|----------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)      | RB Size         | RB offset | Modulation | 20000      | 20175 | 20350 | Tune-up power(dBm) |                    |
| 10                   | 1               | LOW       | QPSK       | 14.88      | 14.69 | 14.84 | 16.50              |                    |
|                      |                 | MID       | QPSK       | 14.92      | 15.03 | 14.96 | 16.50              |                    |
|                      |                 | HIGH      | QPSK       | 14.95      | 15.13 | 14.81 | 16.50              |                    |
|                      | 50              | LOW       | QPSK       | 15.01      | 14.87 | 15.04 | 16.50              |                    |
|                      |                 | MID       | QPSK       | 15.00      | 14.87 | 15.06 | 16.50              |                    |
|                      |                 | HIGH      | QPSK       | 15.05      | 14.86 | 14.73 | 16.50              |                    |
|                      | 100             | LOW       | QPSK       | 14.92      | 14.74 | 14.92 | 16.50              |                    |
|                      | 10              | 1         | LOW        | Q16        | 15.33 | 15.12 | 15.20              | 16.50              |
|                      |                 |           | MID        | Q16        | 15.42 | 15.39 | 15.33              | 16.50              |
| HIGH                 |                 |           | Q16        | 15.41      | 15.24 | 15.29 | 16.50              |                    |
| 50                   |                 | LOW       | Q16        | 15.09      | 14.90 | 14.81 | 16.50              |                    |
|                      |                 | MID       | Q16        | 14.92      | 15.03 | 14.87 | 16.50              |                    |
|                      |                 | HIGH      | Q16        | 14.93      | 14.97 | 14.75 | 16.50              |                    |
| 100                  |                 | LOW       | Q16        | 15.04      | 14.98 | 14.83 | 16.50              |                    |
| 10                   |                 | 1         | LOW        | 64QAM      | 15.19 | 15.60 | 15.22              | 16.50              |
|                      |                 |           | MID        | 64QAM      | 15.41 | 15.78 | 15.48              | 16.50              |
|                      | HIGH            |           | 64QAM      | 15.35      | 15.42 | 15.13 | 16.50              |                    |
|                      | 50              | LOW       | 64QAM      | 15.02      | 14.86 | 14.81 | 16.50              |                    |
|                      |                 | MID       | 64QAM      | 15.11      | 15.02 | 15.13 | 16.50              |                    |
|                      |                 | HIGH      | 64QAM      | 15.03      | 14.84 | 14.73 | 16.50              |                    |
|                      | 100             | LOW       | 64QAM      | 15.04      | 14.74 | 14.99 | 16.50              |                    |
|                      | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20025 | 20175 | 20325              | Tune-up power(dBm) |
|                      | 15              | 1         | LOW        | QPSK       | 14.96 | 14.99 | 14.67              | 16.50              |
| MID                  |                 |           | QPSK       | 14.81      | 15.12 | 14.89 | 16.50              |                    |
| HIGH                 |                 |           | QPSK       | 14.76      | 15.00 | 14.60 | 16.50              |                    |
| 36                   |                 | LOW       | QPSK       | 14.85      | 15.14 | 14.85 | 16.50              |                    |
|                      |                 | MID       | QPSK       | 15.06      | 14.83 | 14.79 | 16.50              |                    |
|                      |                 | HIGH      | QPSK       | 15.04      | 14.95 | 14.87 | 16.50              |                    |
| 75                   |                 | LOW       | QPSK       | 15.04      | 15.01 | 14.94 | 16.50              |                    |
| 15                   |                 | 1         | LOW        | Q16        | 15.29 | 15.44 | 15.01              | 16.50              |
|                      |                 |           | MID        | Q16        | 15.27 | 15.48 | 15.22              | 16.50              |
|                      | HIGH            |           | Q16        | 15.22      | 15.36 | 15.09 | 16.50              |                    |
|                      | 36              | LOW       | Q16        | 14.94      | 14.85 | 15.02 | 16.50              |                    |
|                      |                 | MID       | Q16        | 14.97      | 15.06 | 14.85 | 16.50              |                    |
|                      |                 | HIGH      | Q16        | 14.95      | 14.72 | 14.92 | 16.50              |                    |
|                      | 75              | LOW       | Q16        | 14.91      | 14.81 | 14.97 | 16.50              |                    |
|                      | 15              | 1         | LOW        | 64QAM      | 15.40 | 15.49 | 15.13              | 16.50              |
|                      |                 |           | MID        | 64QAM      | 15.45 | 15.52 | 15.46              | 16.50              |
| HIGH                 |                 |           | 64QAM      | 15.10      | 15.38 | 15.17 | 16.50              |                    |
| 36                   |                 | LOW       | 64QAM      | 15.03      | 14.91 | 14.86 | 16.50              |                    |
|                      |                 | MID       | 64QAM      | 14.94      | 15.22 | 15.14 | 16.50              |                    |
|                      |                 | HIGH      | 64QAM      | 14.96      | 14.83 | 14.87 | 16.50              |                    |
| 75                   |                 | LOW       | 64QAM      | 15.00      | 14.83 | 14.84 | 16.50              |                    |
| Bandwidth (MHz)      |                 | RB Size   | RB offset  | Modulation | 20050 | 20175 | 20300              | Tune-up power(dBm) |
| 20                   |                 | 1         | LOW        | QPSK       | 14.89 | 14.84 | 14.79              | 16.50              |
|                      | MID             |           | QPSK       | 14.87      | 15.01 | 14.97 | 16.50              |                    |
|                      | HIGH            |           | QPSK       | 14.91      | 15.04 | 14.72 | 16.50              |                    |
|                      | 50              | LOW       | QPSK       | 14.99      | 15.01 | 14.90 | 16.50              |                    |
|                      |                 | MID       | QPSK       | 14.91      | 14.91 | 14.91 | 16.50              |                    |
|                      |                 | HIGH      | QPSK       | 14.99      | 14.85 | 14.81 | 16.50              |                    |
|                      | 100             | LOW       | QPSK       | 15.00      | 14.89 | 14.87 | 16.50              |                    |
|                      | 20              | 1         | LOW        | Q16        | 15.21 | 15.15 | 15.25              | 16.50              |
|                      |                 |           | MID        | Q16        | 15.32 | 15.50 | 15.39              | 16.50              |
| HIGH                 |                 |           | Q16        | 15.37      | 15.38 | 15.16 | 16.50              |                    |
| 50                   |                 | LOW       | Q16        | 15.02      | 14.95 | 14.88 | 16.50              |                    |
|                      |                 | MID       | Q16        | 15.03      | 14.94 | 14.89 | 16.50              |                    |
|                      |                 | HIGH      | Q16        | 15.03      | 14.87 | 14.79 | 16.50              |                    |
| 100                  |                 | LOW       | Q16        | 15.00      | 14.88 | 14.86 | 16.50              |                    |
| 20                   |                 | 1         | LOW        | 64QAM      | 15.50 | 15.48 | 15.31              | 16.50              |
|                      |                 |           | MID        | 64QAM      | 15.50 | 15.64 | 15.38              | 16.50              |
|                      | HIGH            |           | 64QAM      | 15.33      | 15.37 | 15.08 | 16.50              |                    |
|                      | 50              | LOW       | 64QAM      | 15.12      | 15.02 | 15.00 | 16.50              |                    |
|                      |                 | MID       | 64QAM      | 15.03      | 14.82 | 14.88 | 16.50              |                    |
|                      |                 | HIGH      | 64QAM      | 15.10      | 14.93 | 14.70 | 16.50              |                    |
|                      | 100             | LOW       | 64QAM      | 15.11      | 14.81 | 14.80 | 16.50              |                    |

### 8.3.2 LTE Band4 Output Power

| LTE B4-Full Power -Ant.3 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 19957      | 20175 | 20393 | Tune-up power(dBm) |                    |
| 1.4                      | 1               | LOW       | QPSK       | 23.28      | 23.33 | 23.27 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.32      | 23.33 | 23.33 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.37      | 23.36 | 23.35 | 23.50              |                    |
|                          | 3               | LOW       | QPSK       | 23.37      | 23.35 | 23.37 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.40      | 23.36 | 23.40 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.37      | 23.34 | 23.38 | 23.50              |                    |
|                          | 6               | LOW       | QPSK       | 22.37      | 22.36 | 22.34 | 22.50              |                    |
|                          | 1.4             | 1         | LOW        | Q16        | 22.45 | 22.45 | 22.44              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.42 | 22.44 | 22.41              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.42      | 22.44 | 22.47 | 22.50              |                    |
| 3                        |                 | LOW       | Q16        | 22.41      | 22.46 | 22.44 | 22.50              |                    |
|                          |                 | MID       | Q16        | 22.43      | 22.43 | 22.45 | 22.50              |                    |
|                          |                 | HIGH      | Q16        | 22.43      | 22.43 | 22.41 | 22.50              |                    |
| 6                        |                 | LOW       | Q16        | 21.41      | 21.25 | 21.41 | 21.50              |                    |
| 1.4                      |                 | 1         | LOW        | 64QAM      | 21.47 | 21.49 | 21.45              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.44 | 21.49 | 21.44              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.46      | 21.47 | 21.38 | 21.50              |                    |
|                          | 3               | LOW       | 64QAM      | 21.31      | 21.45 | 21.47 | 21.50              |                    |
|                          |                 | MID       | 64QAM      | 21.31      | 21.41 | 21.42 | 21.50              |                    |
|                          |                 | HIGH      | 64QAM      | 21.33      | 21.47 | 21.37 | 21.50              |                    |
|                          | 6               | LOW       | 64QAM      | 20.41      | 20.12 | 20.36 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 19965 | 20175 | 20385              | Tune-up power(dBm) |
|                          | 3               | 1         | LOW        | QPSK       | 23.27 | 23.33 | 23.34              | 23.50              |
| MID                      |                 |           | QPSK       | 23.47      | 23.42 | 23.40 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 23.22      | 23.42 | 23.23 | 23.50              |                    |
| 8                        |                 | LOW       | QPSK       | 22.31      | 22.45 | 22.39 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.34      | 22.32 | 22.49 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.44      | 22.35 | 22.46 | 22.50              |                    |
| 15                       |                 | LOW       | QPSK       | 22.43      | 22.34 | 22.34 | 22.50              |                    |
| 3                        |                 | 1         | LOW        | Q16        | 22.30 | 22.17 | 22.17              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.42 | 22.35 | 22.41              | 22.50              |
|                          | HIGH            |           | Q16        | 22.42      | 22.34 | 22.22 | 22.50              |                    |
|                          | 8               | LOW       | Q16        | 21.21      | 21.44 | 21.21 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.46      | 21.21 | 21.44 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.50      | 21.42 | 21.24 | 21.50              |                    |
|                          | 15              | LOW       | Q16        | 21.42      | 21.31 | 21.27 | 21.50              |                    |
|                          | 3               | 1         | LOW        | 64QAM      | 21.13 | 21.20 | 21.03              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.47 | 21.49 | 21.41              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.42      | 21.43 | 21.28 | 21.50              |                    |
| 8                        |                 | LOW       | 64QAM      | 20.33      | 20.40 | 20.32 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.43      | 20.37 | 20.32 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.25      | 20.37 | 20.47 | 20.50              |                    |
| 15                       |                 | LOW       | 64QAM      | 20.26      | 20.42 | 20.25 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 19975 | 20175 | 20375              | Tune-up power(dBm) |
| 5                        |                 | 1         | LOW        | QPSK       | 23.30 | 23.07 | 23.27              | 23.50              |
|                          | MID             |           | QPSK       | 23.37      | 23.46 | 23.48 | 23.50              |                    |
|                          | HIGH            |           | QPSK       | 23.34      | 23.50 | 23.22 | 23.50              |                    |
|                          | 36              | LOW       | QPSK       | 22.17      | 22.22 | 22.34 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.25      | 22.29 | 22.39 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.45      | 22.27 | 22.25 | 22.50              |                    |
|                          | 75              | LOW       | QPSK       | 22.47      | 22.35 | 22.38 | 22.50              |                    |
|                          | 5               | 1         | LOW        | Q16        | 22.39 | 22.29 | 22.38              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.48 | 22.40 | 22.44              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.42      | 22.42 | 22.27 | 22.50              |                    |
| 36                       |                 | LOW       | Q16        | 21.31      | 21.29 | 21.26 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.24      | 21.28 | 21.44 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.44      | 21.22 | 21.28 | 21.50              |                    |
| 75                       |                 | LOW       | Q16        | 21.48      | 21.33 | 21.40 | 21.50              |                    |
| 5                        |                 | 1         | LOW        | 64QAM      | 21.36 | 21.07 | 21.24              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.29 | 21.30 | 21.45              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.38      | 21.27 | 21.46 | 21.50              |                    |
|                          | 36              | LOW       | 64QAM      | 20.40      | 20.29 | 20.36 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.30      | 20.36 | 20.43 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.32      | 20.37 | 20.35 | 20.50              |                    |
|                          | 75              | LOW       | 64QAM      | 20.28      | 20.44 | 20.37 | 20.50              |                    |

| LTE B4-Full Power -Ant.3 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 20000      | 20175 | 20350 | Tune-up power(dBm) |                    |
| 10                       | 1               | LOW       | QPSK       | 23.32      | 23.24 | 23.24 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.45      | 23.48 | 23.46 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.48      | 23.47 | 23.27 | 23.50              |                    |
|                          | 50              | LOW       | QPSK       | 22.17      | 22.22 | 22.38 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.48      | 22.42 | 22.45 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.43      | 22.32 | 22.49 | 22.50              |                    |
|                          | 100             | LOW       | QPSK       | 22.32      | 22.34 | 22.48 | 22.50              |                    |
|                          | 10              | 1         | LOW        | Q16        | 22.40 | 22.16 | 22.28              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.41 | 22.47 | 22.45              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.36      | 22.36 | 22.45 | 22.50              |                    |
| 50                       |                 | LOW       | Q16        | 21.35      | 21.26 | 21.21 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.26      | 21.26 | 21.50 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.33      | 21.35 | 21.42 | 21.50              |                    |
| 100                      |                 | LOW       | Q16        | 21.28      | 21.28 | 21.43 | 21.50              |                    |
| 10                       |                 | 1         | LOW        | 64QAM      | 21.17 | 21.21 | 21.02              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.34 | 21.48 | 21.46              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.23      | 21.46 | 21.43 | 21.50              |                    |
|                          | 50              | LOW       | 64QAM      | 20.26      | 20.16 | 20.41 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.46      | 20.43 | 20.42 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.24      | 20.26 | 20.43 | 20.50              |                    |
|                          | 100             | LOW       | 64QAM      | 20.32      | 20.49 | 20.44 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20025 | 20175 | 20325              | Tune-up power(dBm) |
|                          | 15              | 1         | LOW        | QPSK       | 23.10 | 23.20 | 23.23              | 23.50              |
| MID                      |                 |           | QPSK       | 23.42      | 23.43 | 23.44 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 23.35      | 23.25 | 23.18 | 23.50              |                    |
| 36                       |                 | LOW       | QPSK       | 22.39      | 22.36 | 22.29 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.32      | 22.23 | 22.49 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.33      | 22.42 | 22.42 | 22.50              |                    |
| 75                       |                 | LOW       | QPSK       | 22.44      | 22.42 | 22.50 | 22.50              |                    |
| 15                       |                 | 1         | LOW        | Q16        | 22.45 | 22.23 | 22.37              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.45 | 22.23 | 22.40              | 22.50              |
|                          | HIGH            |           | Q16        | 22.43      | 22.30 | 22.19 | 22.50              |                    |
|                          | 36              | LOW       | Q16        | 21.43      | 21.35 | 21.21 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.45      | 21.48 | 21.32 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.45      | 21.26 | 21.24 | 21.50              |                    |
|                          | 75              | LOW       | Q16        | 21.41      | 21.32 | 21.25 | 21.50              |                    |
|                          | 15              | 1         | LOW        | 64QAM      | 21.12 | 21.32 | 21.25              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.43 | 21.32 | 21.43              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.37      | 21.33 | 21.45 | 21.50              |                    |
| 36                       |                 | LOW       | 64QAM      | 20.48      | 20.22 | 20.43 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.22      | 20.42 | 20.34 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.31      | 20.38 | 20.46 | 20.50              |                    |
| 75                       |                 | LOW       | 64QAM      | 20.44      | 20.43 | 20.20 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 20050 | 20175 | 20300              | Tune-up power(dBm) |
| 20                       |                 | 1         | LOW        | QPSK       | 23.24 | 23.19 | 23.26              | 23.50              |
|                          | MID             |           | QPSK       | 23.41      | 23.43 | 23.46 | 23.50              |                    |
|                          | HIGH            |           | QPSK       | 23.33      | 23.37 | 23.31 | 23.50              |                    |
|                          | 50              | LOW       | QPSK       | 22.32      | 22.33 | 22.40 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.38      | 22.33 | 22.49 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.40      | 22.29 | 22.40 | 22.50              |                    |
|                          | 100             | LOW       | QPSK       | 22.39      | 22.28 | 22.38 | 22.50              |                    |
|                          | 20              | 1         | LOW        | Q16        | 22.34 | 22.30 | 22.28              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.44 | 22.38 | 22.41              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.46      | 22.41 | 22.32 | 22.50              |                    |
| 50                       |                 | LOW       | Q16        | 21.36      | 21.30 | 21.35 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.39      | 21.35 | 21.42 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.45      | 21.31 | 21.37 | 21.50              |                    |
| 100                      |                 | LOW       | Q16        | 21.39      | 21.30 | 21.39 | 21.50              |                    |
| 20                       |                 | 1         | LOW        | 64QAM      | 21.27 | 21.18 | 21.17              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.39 | 21.44 | 21.40              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.36      | 21.42 | 21.41 | 21.50              |                    |
|                          | 50              | LOW       | 64QAM      | 20.36      | 20.28 | 20.41 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.31      | 20.39 | 20.35 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.37      | 20.27 | 20.43 | 20.50              |                    |
|                          | 100             | LOW       | 64QAM      | 20.36      | 20.43 | 20.32 | 20.50              |                    |

| LTE B4-State1&3 -Ant.3 |                 |           |            |            |       |       |                    |                    |
|------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)        | RB Size         | RB offset | Modulation | 19957      | 20175 | 20393 | Tune-up power(dBm) |                    |
| 1.4                    | 1               | LOW       | QPSK       | 21.21      | 21.16 | 21.13 | 21.50              |                    |
|                        |                 | MID       | QPSK       | 21.14      | 21.17 | 21.20 | 21.50              |                    |
|                        |                 | HIGH      | QPSK       | 21.15      | 21.23 | 21.14 | 21.50              |                    |
|                        | 3               | LOW       | QPSK       | 21.21      | 21.24 | 21.22 | 21.50              |                    |
|                        |                 | MID       | QPSK       | 21.23      | 21.21 | 21.23 | 21.50              |                    |
|                        |                 | HIGH      | QPSK       | 21.20      | 21.18 | 21.23 | 21.50              |                    |
|                        | 6               | LOW       | QPSK       | 21.21      | 21.22 | 21.22 | 21.50              |                    |
|                        | 1.4             | 1         | LOW        | Q16        | 21.34 | 21.41 | 21.29              | 21.50              |
|                        |                 |           | MID        | Q16        | 21.35 | 21.49 | 21.27              | 21.50              |
| HIGH                   |                 |           | Q16        | 21.38      | 21.48 | 21.28 | 21.50              |                    |
| 3                      |                 | LOW       | Q16        | 21.25      | 21.42 | 21.39 | 21.50              |                    |
|                        |                 | MID       | Q16        | 21.24      | 21.40 | 21.40 | 21.50              |                    |
|                        |                 | HIGH      | Q16        | 21.26      | 21.37 | 21.39 | 21.50              |                    |
| 6                      |                 | LOW       | Q16        | 21.36      | 21.11 | 21.38 | 21.50              |                    |
| 1.4                    |                 | 1         | LOW        | 64QAM      | 21.43 | 21.44 | 21.40              | 21.50              |
|                        |                 |           | MID        | 64QAM      | 21.37 | 21.46 | 21.35              | 21.50              |
|                        | HIGH            |           | 64QAM      | 21.41      | 21.42 | 21.43 | 21.50              |                    |
|                        | 3               | LOW       | 64QAM      | 21.10      | 21.42 | 21.30 | 21.50              |                    |
|                        |                 | MID       | 64QAM      | 21.14      | 21.45 | 21.30 | 21.50              |                    |
|                        |                 | HIGH      | 64QAM      | 21.30      | 21.26 | 21.42 | 21.50              |                    |
|                        | 6               | LOW       | 64QAM      | 20.46      | 20.19 | 20.25 | 20.50              |                    |
|                        | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 19965 | 20175 | 20385              | Tune-up power(dBm) |
|                        | 3               | 1         | LOW        | QPSK       | 20.99 | 21.11 | 20.95              | 21.50              |
| MID                    |                 |           | QPSK       | 21.25      | 21.41 | 21.27 | 21.50              |                    |
| HIGH                   |                 |           | QPSK       | 21.19      | 21.28 | 21.12 | 21.50              |                    |
| 8                      |                 | LOW       | QPSK       | 21.05      | 21.10 | 21.17 | 21.50              |                    |
|                        |                 | MID       | QPSK       | 21.23      | 21.32 | 21.24 | 21.50              |                    |
|                        |                 | HIGH      | QPSK       | 21.29      | 21.20 | 21.15 | 21.50              |                    |
| 15                     |                 | LOW       | QPSK       | 21.12      | 21.08 | 21.25 | 21.50              |                    |
| 3                      |                 | 1         | LOW        | Q16        | 21.28 | 21.34 | 21.32              | 21.50              |
|                        |                 |           | MID        | Q16        | 21.40 | 21.33 | 21.46              | 21.50              |
|                        | HIGH            |           | Q16        | 21.29      | 21.38 | 21.37 | 21.50              |                    |
|                        | 8               | LOW       | Q16        | 21.17      | 21.31 | 21.21 | 21.50              |                    |
|                        |                 | MID       | Q16        | 21.38      | 21.21 | 21.25 | 21.50              |                    |
|                        |                 | HIGH      | Q16        | 21.28      | 21.01 | 21.20 | 21.50              |                    |
|                        | 15              | LOW       | Q16        | 21.35      | 21.22 | 21.33 | 21.50              |                    |
|                        | 3               | 1         | LOW        | 64QAM      | 21.46 | 21.22 | 21.37              | 21.50              |
|                        |                 |           | MID        | 64QAM      | 21.36 | 21.41 | 21.46              | 21.50              |
| HIGH                   |                 |           | 64QAM      | 21.27      | 21.43 | 21.43 | 21.50              |                    |
| 8                      |                 | LOW       | 64QAM      | 20.20      | 20.03 | 20.27 | 20.50              |                    |
|                        |                 | MID       | 64QAM      | 20.19      | 20.16 | 20.46 | 20.50              |                    |
|                        |                 | HIGH      | 64QAM      | 20.44      | 20.25 | 20.16 | 20.50              |                    |
| 15                     |                 | LOW       | 64QAM      | 20.44      | 19.93 | 20.09 | 20.50              |                    |
| Bandwidth (MHz)        |                 | RB Size   | RB offset  | Modulation | 19975 | 20175 | 20375              | Tune-up power(dBm) |
| 5                      |                 | 1         | LOW        | QPSK       | 21.12 | 20.90 | 21.12              | 21.50              |
|                        | MID             |           | QPSK       | 21.32      | 21.23 | 21.30 | 21.50              |                    |
|                        | HIGH            |           | QPSK       | 21.06      | 21.09 | 21.30 | 21.50              |                    |
|                        | 36              | LOW       | QPSK       | 21.21      | 21.18 | 21.43 | 21.50              |                    |
|                        |                 | MID       | QPSK       | 21.29      | 21.31 | 21.18 | 21.50              |                    |
|                        |                 | HIGH      | QPSK       | 21.41      | 21.06 | 21.34 | 21.50              |                    |
|                        | 75              | LOW       | QPSK       | 21.28      | 21.21 | 21.15 | 21.50              |                    |
|                        | 5               | 1         | LOW        | Q16        | 21.44 | 21.32 | 21.25              | 21.50              |
|                        |                 |           | MID        | Q16        | 21.41 | 21.33 | 21.42              | 21.50              |
| HIGH                   |                 |           | Q16        | 21.33      | 21.50 | 21.42 | 21.50              |                    |
| 36                     |                 | LOW       | Q16        | 21.29      | 21.27 | 21.20 | 21.50              |                    |
|                        |                 | MID       | Q16        | 21.14      | 21.11 | 21.38 | 21.50              |                    |
|                        |                 | HIGH      | Q16        | 21.18      | 21.04 | 21.18 | 21.50              |                    |
| 75                     |                 | LOW       | Q16        | 21.33      | 21.24 | 21.30 | 21.50              |                    |
| 5                      |                 | 1         | LOW        | 64QAM      | 21.50 | 21.48 | 21.25              | 21.50              |
|                        |                 |           | MID        | 64QAM      | 21.33 | 21.41 | 21.41              | 21.50              |
|                        | HIGH            |           | 64QAM      | 21.19      | 21.40 | 21.34 | 21.50              |                    |
|                        | 36              | LOW       | 64QAM      | 20.46      | 20.04 | 20.17 | 20.50              |                    |
|                        |                 | MID       | 64QAM      | 20.29      | 20.29 | 20.47 | 20.50              |                    |
|                        |                 | HIGH      | 64QAM      | 20.35      | 20.16 | 20.38 | 20.50              |                    |
|                        | 75              | LOW       | 64QAM      | 20.43      | 19.88 | 20.23 | 20.50              |                    |

| LTE B4-State1 -Ant.3 |                 |           |            |            |       |       |                    |                    |
|----------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)      | RB Size         | RB offset | Modulation | 20000      | 20175 | 20350 | Tune-up power(dBm) |                    |
| 10                   | 1               | LOW       | QPSK       | 21.09      | 20.94 | 21.16 | 21.50              |                    |
|                      |                 | MID       | QPSK       | 21.20      | 21.36 | 21.18 | 21.50              |                    |
|                      |                 | HIGH      | QPSK       | 21.27      | 21.15 | 21.14 | 21.50              |                    |
|                      | 50              | LOW       | QPSK       | 21.06      | 21.14 | 21.24 | 21.50              |                    |
|                      |                 | MID       | QPSK       | 21.26      | 21.32 | 21.33 | 21.50              |                    |
|                      |                 | HIGH      | QPSK       | 21.18      | 21.00 | 21.25 | 21.50              |                    |
|                      | 100             | LOW       | QPSK       | 21.17      | 21.02 | 21.28 | 21.50              |                    |
|                      | 10              | 1         | LOW        | Q16        | 21.46 | 21.21 | 21.42              | 21.50              |
|                      |                 |           | MID        | Q16        | 21.50 | 21.38 | 21.49              | 21.50              |
| HIGH                 |                 |           | Q16        | 21.45      | 21.39 | 21.33 | 21.50              |                    |
| 50                   |                 | LOW       | Q16        | 21.20      | 21.16 | 21.16 | 21.50              |                    |
|                      |                 | MID       | Q16        | 21.39      | 21.30 | 21.32 | 21.50              |                    |
|                      |                 | HIGH      | Q16        | 21.20      | 21.06 | 21.32 | 21.50              |                    |
| 100                  |                 | LOW       | Q16        | 21.23      | 21.20 | 21.23 | 21.50              |                    |
| 10                   |                 | 1         | LOW        | 64QAM      | 21.30 | 21.40 | 21.25              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 21.40 | 21.40 | 21.49              | 21.50              |
|                      | HIGH            |           | 64QAM      | 21.25      | 21.41 | 21.35 | 21.50              |                    |
|                      | 50              | LOW       | 64QAM      | 20.25      | 20.04 | 20.32 | 20.50              |                    |
|                      |                 | MID       | 64QAM      | 20.26      | 20.34 | 20.41 | 20.50              |                    |
|                      |                 | HIGH      | 64QAM      | 20.43      | 20.05 | 20.33 | 20.50              |                    |
|                      | 100             | LOW       | 64QAM      | 20.24      | 20.04 | 20.04 | 20.50              |                    |
|                      | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20025 | 20175 | 20325              | Tune-up power(dBm) |
|                      | 15              | 1         | LOW        | QPSK       | 20.96 | 21.12 | 21.22              | 21.50              |
| MID                  |                 |           | QPSK       | 21.34      | 21.37 | 21.19 | 21.50              |                    |
| HIGH                 |                 |           | QPSK       | 21.27      | 21.23 | 21.05 | 21.50              |                    |
| 36                   |                 | LOW       | QPSK       | 21.09      | 21.24 | 21.16 | 21.50              |                    |
|                      |                 | MID       | QPSK       | 21.16      | 21.26 | 21.38 | 21.50              |                    |
|                      |                 | HIGH      | QPSK       | 21.17      | 20.99 | 21.17 | 21.50              |                    |
| 75                   |                 | LOW       | QPSK       | 21.23      | 21.02 | 21.26 | 21.50              |                    |
| 15                   |                 | 1         | LOW        | Q16        | 21.40 | 21.25 | 21.23              | 21.50              |
|                      |                 |           | MID        | Q16        | 21.39 | 21.29 | 21.42              | 21.50              |
|                      | HIGH            |           | Q16        | 21.47      | 21.47 | 21.27 | 21.50              |                    |
|                      | 36              | LOW       | Q16        | 21.19      | 21.22 | 21.29 | 21.50              |                    |
|                      |                 | MID       | Q16        | 21.29      | 21.28 | 21.22 | 21.50              |                    |
|                      |                 | HIGH      | Q16        | 21.14      | 20.98 | 21.19 | 21.50              |                    |
|                      | 75              | LOW       | Q16        | 21.39      | 21.12 | 21.14 | 21.50              |                    |
|                      | 15              | 1         | LOW        | 64QAM      | 21.50 | 21.45 | 21.33              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 21.47 | 21.34 | 21.35              | 21.50              |
| HIGH                 |                 |           | 64QAM      | 21.29      | 21.41 | 21.43 | 21.50              |                    |
| 36                   |                 | LOW       | 64QAM      | 20.36      | 20.04 | 20.38 | 20.50              |                    |
|                      |                 | MID       | 64QAM      | 20.34      | 20.32 | 20.28 | 20.50              |                    |
|                      |                 | HIGH      | 64QAM      | 20.22      | 20.05 | 20.34 | 20.50              |                    |
| 75                   |                 | LOW       | 64QAM      | 20.50      | 20.09 | 20.22 | 20.50              |                    |
| Bandwidth (MHz)      |                 | RB Size   | RB offset  | Modulation | 20050 | 20175 | 20300              | Tune-up power(dBm) |
| 20                   |                 | 1         | LOW        | QPSK       | 21.09 | 21.04 | 21.10              | 21.50              |
|                      | MID             |           | QPSK       | 21.24      | 21.29 | 21.24 | 21.50              |                    |
|                      | HIGH            |           | QPSK       | 21.14      | 21.30 | 21.19 | 21.50              |                    |
|                      | 50              | LOW       | QPSK       | 21.17      | 21.15 | 21.19 | 21.50              |                    |
|                      |                 | MID       | QPSK       | 21.26      | 21.31 | 21.28 | 21.50              |                    |
|                      |                 | HIGH      | QPSK       | 21.29      | 21.14 | 21.27 | 21.50              |                    |
|                      | 100             | LOW       | QPSK       | 21.25      | 21.13 | 21.29 | 21.50              |                    |
|                      | 20              | 1         | LOW        | Q16        | 21.43 | 21.35 | 21.32              | 21.50              |
|                      |                 |           | MID        | Q16        | 21.41 | 21.44 | 21.47              | 21.50              |
| HIGH                 |                 |           | Q16        | 21.43      | 21.46 | 21.39 | 21.50              |                    |
| 50                   |                 | LOW       | Q16        | 21.20      | 21.19 | 21.23 | 21.50              |                    |
|                      |                 | MID       | Q16        | 21.24      | 21.25 | 21.27 | 21.50              |                    |
|                      |                 | HIGH      | Q16        | 21.26      | 21.13 | 21.22 | 21.50              |                    |
| 100                  |                 | LOW       | Q16        | 21.25      | 21.15 | 21.29 | 21.50              |                    |
| 20                   |                 | 1         | LOW        | 64QAM      | 21.42 | 21.37 | 21.35              | 21.50              |
|                      |                 |           | MID        | 64QAM      | 21.48 | 21.49 | 21.47              | 21.50              |
|                      | HIGH            |           | 64QAM      | 21.30      | 21.49 | 21.45 | 21.50              |                    |
|                      | 50              | LOW       | 64QAM      | 20.32      | 20.13 | 20.27 | 20.50              |                    |
|                      |                 | MID       | 64QAM      | 20.24      | 20.19 | 20.41 | 20.50              |                    |
|                      |                 | HIGH      | 64QAM      | 20.29      | 20.16 | 20.30 | 20.50              |                    |
|                      | 100             | LOW       | 64QAM      | 20.38      | 20.02 | 20.19 | 20.50              |                    |

| LTE B4-State2&4&6 -Ant.3 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 19957      | 20175 | 20393 | Tune-up power(dBm) |                    |
| 1.4                      | 1               | LOW       | QPSK       | 23.28      | 23.33 | 23.27 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.32      | 23.33 | 23.33 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.37      | 23.36 | 23.35 | 23.50              |                    |
|                          | 3               | LOW       | QPSK       | 23.37      | 23.35 | 23.37 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.40      | 23.36 | 23.40 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.37      | 23.34 | 23.38 | 23.50              |                    |
|                          | 6               | LOW       | QPSK       | 22.37      | 22.36 | 22.34 | 22.50              |                    |
|                          | 1.4             | 1         | LOW        | Q16        | 22.45 | 22.45 | 22.44              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.42 | 22.44 | 22.41              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.42      | 22.44 | 22.47 | 22.50              |                    |
| 3                        |                 | LOW       | Q16        | 22.41      | 22.46 | 22.44 | 22.50              |                    |
|                          |                 | MID       | Q16        | 22.43      | 22.43 | 22.45 | 22.50              |                    |
|                          |                 | HIGH      | Q16        | 22.43      | 22.43 | 22.41 | 22.50              |                    |
| 6                        |                 | LOW       | Q16        | 21.41      | 21.25 | 21.41 | 21.50              |                    |
| 1.4                      |                 | 1         | LOW        | 64QAM      | 21.47 | 21.49 | 21.45              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.44 | 21.49 | 21.44              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.46      | 21.47 | 21.38 | 21.50              |                    |
|                          | 3               | LOW       | 64QAM      | 21.31      | 21.45 | 21.47 | 21.50              |                    |
|                          |                 | MID       | 64QAM      | 21.31      | 21.41 | 21.42 | 21.50              |                    |
|                          |                 | HIGH      | 64QAM      | 21.33      | 21.47 | 21.37 | 21.50              |                    |
|                          | 6               | LOW       | 64QAM      | 20.41      | 20.12 | 20.36 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 19965 | 20175 | 20385              | Tune-up power(dBm) |
|                          | 3               | 1         | LOW        | QPSK       | 23.27 | 23.33 | 23.34              | 23.50              |
| MID                      |                 |           | QPSK       | 23.47      | 23.42 | 23.40 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 23.22      | 23.42 | 23.23 | 23.50              |                    |
| 8                        |                 | LOW       | QPSK       | 22.31      | 22.45 | 22.39 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.34      | 22.32 | 22.49 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.44      | 22.35 | 22.46 | 22.50              |                    |
| 15                       |                 | LOW       | QPSK       | 22.43      | 22.34 | 22.34 | 22.50              |                    |
| 3                        |                 | 1         | LOW        | Q16        | 22.30 | 22.17 | 22.17              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.42 | 22.35 | 22.41              | 22.50              |
|                          | HIGH            |           | Q16        | 22.42      | 22.34 | 22.22 | 22.50              |                    |
|                          | 8               | LOW       | Q16        | 21.21      | 21.44 | 21.21 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.46      | 21.21 | 21.44 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.50      | 21.42 | 21.24 | 21.50              |                    |
|                          | 15              | LOW       | Q16        | 21.42      | 21.31 | 21.27 | 21.50              |                    |
|                          | 3               | 1         | LOW        | 64QAM      | 21.13 | 21.20 | 21.03              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.47 | 21.49 | 21.41              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.42      | 21.43 | 21.28 | 21.50              |                    |
| 8                        |                 | LOW       | 64QAM      | 20.33      | 20.40 | 20.32 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.43      | 20.37 | 20.32 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.25      | 20.37 | 20.47 | 20.50              |                    |
| 15                       |                 | LOW       | 64QAM      | 20.26      | 20.42 | 20.25 | 20.50              |                    |
| Bandwidth (MHz)          |                 | RB Size   | RB offset  | Modulation | 19975 | 20175 | 20375              | Tune-up power(dBm) |
| 5                        |                 | 1         | LOW        | QPSK       | 23.30 | 23.07 | 23.27              | 23.50              |
|                          | MID             |           | QPSK       | 23.37      | 23.46 | 23.48 | 23.50              |                    |
|                          | HIGH            |           | QPSK       | 23.34      | 23.50 | 23.22 | 23.50              |                    |
|                          | 36              | LOW       | QPSK       | 22.17      | 22.22 | 22.34 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.25      | 22.29 | 22.39 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.45      | 22.27 | 22.25 | 22.50              |                    |
|                          | 75              | LOW       | QPSK       | 22.47      | 22.35 | 22.38 | 22.50              |                    |
|                          | 5               | 1         | LOW        | Q16        | 22.39 | 22.29 | 22.38              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.48 | 22.40 | 22.44              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.42      | 22.42 | 22.27 | 22.50              |                    |
| 36                       |                 | LOW       | Q16        | 21.31      | 21.29 | 21.26 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.24      | 21.28 | 21.44 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.44      | 21.22 | 21.28 | 21.50              |                    |
| 75                       |                 | LOW       | Q16        | 21.48      | 21.33 | 21.40 | 21.50              |                    |
| 5                        |                 | 1         | LOW        | 64QAM      | 21.36 | 21.07 | 21.24              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.29 | 21.30 | 21.45              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.38      | 21.27 | 21.46 | 21.50              |                    |
|                          | 36              | LOW       | 64QAM      | 20.40      | 20.29 | 20.36 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.30      | 20.36 | 20.43 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.32      | 20.37 | 20.35 | 20.50              |                    |
|                          | 75              | LOW       | 64QAM      | 20.28      | 20.44 | 20.37 | 20.50              |                    |

| LTE B4-State2&4&6 -Ant.3 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 20000      | 20175 | 20350 | Tune-up power(dBm) |                    |
| 10                       | 1               | LOW       | QPSK       | 23.32      | 23.24 | 23.24 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.45      | 23.48 | 23.46 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.48      | 23.47 | 23.27 | 23.50              |                    |
|                          | 50              | LOW       | QPSK       | 22.17      | 22.22 | 22.38 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.48      | 22.42 | 22.45 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.43      | 22.32 | 22.49 | 22.50              |                    |
|                          | 100             | LOW       | QPSK       | 22.32      | 22.34 | 22.48 | 22.50              |                    |
|                          | 10              | 1         | LOW        | Q16        | 22.40 | 22.16 | 22.28              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.41 | 22.47 | 22.45              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.36      | 22.36 | 22.45 | 22.50              |                    |
| 50                       |                 | LOW       | Q16        | 21.35      | 21.26 | 21.21 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.26      | 21.26 | 21.50 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.33      | 21.35 | 21.42 | 21.50              |                    |
| 100                      |                 | LOW       | Q16        | 21.28      | 21.28 | 21.43 | 21.50              |                    |
| 10                       |                 | 1         | LOW        | 64QAM      | 21.17 | 21.21 | 21.02              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.34 | 21.48 | 21.46              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.23      | 21.46 | 21.43 | 21.50              |                    |
|                          | 50              | LOW       | 64QAM      | 20.26      | 20.16 | 20.41 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.46      | 20.43 | 20.42 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.24      | 20.26 | 20.43 | 20.50              |                    |
|                          | 100             | LOW       | 64QAM      | 20.32      | 20.49 | 20.44 | 20.50              |                    |
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 20025      | 20175 | 20325 | Tune-up power(dBm) |                    |
| 15                       | 1               | LOW       | QPSK       | 23.10      | 23.20 | 23.23 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 23.42      | 23.43 | 23.44 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.35      | 23.25 | 23.18 | 23.50              |                    |
|                          | 36              | LOW       | QPSK       | 22.39      | 22.36 | 22.29 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.32      | 22.23 | 22.49 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.33      | 22.42 | 22.42 | 22.50              |                    |
|                          | 75              | LOW       | QPSK       | 22.44      | 22.42 | 22.50 | 22.50              |                    |
|                          | 15              | 1         | LOW        | Q16        | 22.45 | 22.23 | 22.37              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.45 | 22.23 | 22.40              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.43      | 22.30 | 22.19 | 22.50              |                    |
| 36                       |                 | LOW       | Q16        | 21.43      | 21.35 | 21.21 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.45      | 21.48 | 21.32 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.45      | 21.26 | 21.24 | 21.50              |                    |
| 75                       |                 | LOW       | Q16        | 21.41      | 21.32 | 21.25 | 21.50              |                    |
| 15                       |                 | 1         | LOW        | 64QAM      | 21.12 | 21.32 | 21.25              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.43 | 21.32 | 21.43              | 21.50              |
|                          | HIGH            |           | 64QAM      | 21.37      | 21.33 | 21.45 | 21.50              |                    |
|                          | 36              | LOW       | 64QAM      | 20.48      | 20.22 | 20.43 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.22      | 20.42 | 20.34 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.31      | 20.38 | 20.46 | 20.50              |                    |
|                          | 75              | LOW       | 64QAM      | 20.44      | 20.43 | 20.20 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20050 | 20175 | 20300              | Tune-up power(dBm) |
|                          | 20              | 1         | LOW        | QPSK       | 23.24 | 23.19 | 23.26              | 23.50              |
| MID                      |                 |           | QPSK       | 23.41      | 23.43 | 23.37 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 23.33      | 23.46 | 23.31 | 23.50              |                    |
| 50                       |                 | LOW       | QPSK       | 22.32      | 22.33 | 22.40 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 22.38      | 22.49 | 22.39 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.40      | 22.29 | 22.40 | 22.50              |                    |
| 100                      |                 | LOW       | QPSK       | 22.39      | 22.28 | 22.38 | 22.50              |                    |
| 20                       |                 | 1         | LOW        | Q16        | 22.34 | 22.30 | 22.28              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.44 | 22.38 | 22.41              | 22.50              |
|                          | HIGH            |           | Q16        | 22.46      | 22.41 | 22.32 | 22.50              |                    |
|                          | 50              | LOW       | Q16        | 21.36      | 21.30 | 21.35 | 21.50              |                    |
|                          |                 | MID       | Q16        | 21.39      | 21.35 | 21.42 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 21.45      | 21.31 | 21.37 | 21.50              |                    |
|                          | 100             | LOW       | Q16        | 21.39      | 21.30 | 21.39 | 21.50              |                    |
|                          | 20              | 1         | LOW        | 64QAM      | 21.27 | 21.18 | 21.17              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.39 | 21.44 | 21.40              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 21.36      | 21.42 | 21.41 | 21.50              |                    |
| 50                       |                 | LOW       | 64QAM      | 20.36      | 20.28 | 20.41 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 20.31      | 20.39 | 20.35 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.37      | 20.27 | 20.43 | 20.50              |                    |
| 100                      |                 | LOW       | 64QAM      | 20.36      | 20.43 | 20.32 | 20.50              |                    |

| LTE B4-State5 -Ant.3 |                 |           |            |            |       |       |                    |                    |
|----------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)      | RB Size         | RB offset | Modulation | 19957      | 20175 | 20393 | Tune-up power(dBm) |                    |
| 1.4                  | 1               | LOW       | QPSK       | 19.66      | 19.66 | 19.64 | 20.00              |                    |
|                      |                 | MID       | QPSK       | 19.64      | 19.67 | 19.64 | 20.00              |                    |
|                      |                 | HIGH      | QPSK       | 19.65      | 19.69 | 19.64 | 20.00              |                    |
|                      | 3               | LOW       | QPSK       | 19.70      | 19.69 | 19.71 | 20.00              |                    |
|                      |                 | MID       | QPSK       | 19.70      | 19.69 | 19.68 | 20.00              |                    |
|                      |                 | HIGH      | QPSK       | 19.68      | 19.67 | 19.70 | 20.00              |                    |
|                      | 6               | LOW       | QPSK       | 19.70      | 19.72 | 19.68 | 20.00              |                    |
|                      | 1.4             | 1         | LOW        | Q16        | 19.84 | 19.97 | 19.75              | 20.00              |
|                      |                 |           | MID        | Q16        | 19.85 | 19.97 | 19.76              | 20.00              |
| HIGH                 |                 |           | Q16        | 19.88      | 19.95 | 19.79 | 20.00              |                    |
| 3                    |                 | LOW       | Q16        | 19.76      | 19.91 | 19.87 | 20.00              |                    |
|                      |                 | MID       | Q16        | 19.76      | 19.88 | 19.88 | 20.00              |                    |
|                      |                 | HIGH      | Q16        | 19.75      | 19.86 | 19.86 | 20.00              |                    |
| 6                    |                 | LOW       | Q16        | 19.83      | 19.61 | 19.85 | 20.00              |                    |
| 1.4                  |                 | 1         | LOW        | 64QAM      | 19.73 | 19.95 | 19.75              | 20.00              |
|                      |                 |           | MID        | 64QAM      | 19.91 | 19.91 | 19.64              | 20.00              |
|                      | HIGH            |           | 64QAM      | 19.92      | 19.99 | 19.68 | 20.00              |                    |
|                      | 3               | LOW       | 64QAM      | 19.65      | 19.83 | 19.77 | 20.00              |                    |
|                      |                 | MID       | 64QAM      | 19.69      | 19.86 | 19.81 | 20.00              |                    |
|                      |                 | HIGH      | 64QAM      | 19.75      | 19.72 | 19.86 | 20.00              |                    |
|                      | 6               | LOW       | 64QAM      | 19.84      | 19.76 | 19.79 | 20.00              |                    |
|                      | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 19965 | 20175 | 20385              | Tune-up power(dBm) |
|                      | 3               | 1         | LOW        | QPSK       | 19.65 | 19.53 | 19.62              | 20.00              |
| MID                  |                 |           | QPSK       | 19.87      | 19.77 | 19.69 | 20.00              |                    |
| HIGH                 |                 |           | QPSK       | 19.74      | 19.61 | 19.72 | 20.00              |                    |
| 8                    |                 | LOW       | QPSK       | 19.70      | 19.54 | 19.80 | 20.00              |                    |
|                      |                 | MID       | QPSK       | 19.63      | 19.71 | 19.84 | 20.00              |                    |
|                      |                 | HIGH      | QPSK       | 19.83      | 19.49 | 19.87 | 20.00              |                    |
| 15                   |                 | LOW       | QPSK       | 19.73      | 19.68 | 19.83 | 20.00              |                    |
| 3                    |                 | 1         | LOW        | Q16        | 19.86 | 19.69 | 19.63              | 20.00              |
|                      |                 |           | MID        | Q16        | 19.91 | 19.99 | 19.89              | 20.00              |
|                      | HIGH            |           | Q16        | 19.77      | 19.99 | 19.84 | 20.00              |                    |
|                      | 8               | LOW       | Q16        | 19.65      | 19.77 | 19.75 | 20.00              |                    |
|                      |                 | MID       | Q16        | 19.75      | 19.76 | 19.65 | 20.00              |                    |
|                      |                 | HIGH      | Q16        | 19.68      | 19.65 | 19.69 | 20.00              |                    |
|                      | 15              | LOW       | Q16        | 19.71      | 19.78 | 19.67 | 20.00              |                    |
|                      | 3               | 1         | LOW        | 64QAM      | 19.91 | 19.86 | 19.77              | 20.00              |
|                      |                 |           | MID        | 64QAM      | 19.80 | 19.92 | 19.78              | 20.00              |
| HIGH                 |                 |           | 64QAM      | 19.89      | 19.78 | 19.85 | 20.00              |                    |
| 8                    |                 | LOW       | 64QAM      | 19.75      | 19.54 | 19.88 | 20.00              |                    |
|                      |                 | MID       | 64QAM      | 19.87      | 19.57 | 19.52 | 20.00              |                    |
|                      |                 | HIGH      | 64QAM      | 19.73      | 19.63 | 19.52 | 20.00              |                    |
| 15                   |                 | LOW       | 64QAM      | 19.72      | 19.82 | 19.77 | 20.00              |                    |
| Bandwidth (MHz)      |                 | RB Size   | RB offset  | Modulation | 19975 | 20175 | 20375              | Tune-up power(dBm) |
| 5                    |                 | 1         | LOW        | QPSK       | 19.66 | 19.68 | 19.51              | 20.00              |
|                      | MID             |           | QPSK       | 19.71      | 19.73 | 19.72 | 20.00              |                    |
|                      | HIGH            |           | QPSK       | 19.78      | 19.77 | 19.70 | 20.00              |                    |
|                      | 36              | LOW       | QPSK       | 19.52      | 19.51 | 19.79 | 20.00              |                    |
|                      |                 | MID       | QPSK       | 19.71      | 19.79 | 19.83 | 20.00              |                    |
|                      |                 | HIGH      | QPSK       | 19.60      | 19.49 | 19.75 | 20.00              |                    |
|                      | 75              | LOW       | QPSK       | 19.82      | 19.72 | 19.67 | 20.00              |                    |
|                      | 5               | 1         | LOW        | Q16        | 19.92 | 19.77 | 19.72              | 20.00              |
|                      |                 |           | MID        | Q16        | 19.76 | 19.95 | 19.86              | 20.00              |
| HIGH                 |                 |           | Q16        | 19.81      | 19.85 | 19.70 | 20.00              |                    |
| 36                   |                 | LOW       | Q16        | 19.76      | 19.77 | 19.76 | 20.00              |                    |
|                      |                 | MID       | Q16        | 19.73      | 19.65 | 19.64 | 20.00              |                    |
|                      |                 | HIGH      | Q16        | 19.88      | 19.65 | 19.73 | 20.00              |                    |
| 75                   |                 | LOW       | Q16        | 19.65      | 19.79 | 19.79 | 20.00              |                    |
| 5                    |                 | 1         | LOW        | 64QAM      | 19.99 | 19.89 | 19.77              | 20.00              |
|                      |                 |           | MID        | 64QAM      | 19.82 | 19.78 | 19.94              | 20.00              |
|                      | HIGH            |           | 64QAM      | 19.83      | 19.95 | 19.87 | 20.00              |                    |
|                      | 36              | LOW       | 64QAM      | 19.59      | 19.58 | 19.68 | 20.00              |                    |
|                      |                 | MID       | 64QAM      | 19.88      | 19.75 | 19.71 | 20.00              |                    |
|                      |                 | HIGH      | 64QAM      | 19.92      | 19.53 | 19.61 | 20.00              |                    |
|                      | 75              | LOW       | 64QAM      | 19.51      | 19.87 | 19.57 | 20.00              |                    |



| LTE B4-State5 -Ant.3 |                 |           |            |            |       |       |                    |                    |
|----------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)      | RB Size         | RB offset | Modulation | 20000      | 20175 | 20350 | Tune-up power(dBm) |                    |
| 10                   | 1               | LOW       | QPSK       | 19.52      | 19.63 | 19.48 | 20.00              |                    |
|                      |                 | MID       | QPSK       | 19.63      | 19.76 | 19.80 | 20.00              |                    |
|                      |                 | HIGH      | QPSK       | 19.69      | 19.83 | 19.54 | 20.00              |                    |
|                      | 50              | LOW       | QPSK       | 19.71      | 19.61 | 19.80 | 20.00              |                    |
|                      |                 | MID       | QPSK       | 19.73      | 19.76 | 19.90 | 20.00              |                    |
|                      |                 | HIGH      | QPSK       | 19.75      | 19.52 | 19.74 | 20.00              |                    |
|                      | 100             | LOW       | QPSK       | 19.67      | 19.76 | 19.70 | 20.00              |                    |
|                      | 10              | 1         | LOW        | Q16        | 19.82 | 19.69 | 19.72              | 20.00              |
|                      |                 |           | MID        | Q16        | 19.95 | 19.90 | 19.84              | 20.00              |
| HIGH                 |                 |           | Q16        | 19.90      | 19.81 | 19.85 | 20.00              |                    |
| 50                   |                 | LOW       | Q16        | 19.65      | 19.63 | 19.84 | 20.00              |                    |
|                      |                 | MID       | Q16        | 19.79      | 19.70 | 19.63 | 20.00              |                    |
|                      |                 | HIGH      | Q16        | 19.83      | 19.75 | 19.73 | 20.00              |                    |
| 100                  |                 | LOW       | Q16        | 19.78      | 19.67 | 19.91 | 20.00              |                    |
| 10                   |                 | 1         | LOW        | 64QAM      | 19.90 | 19.80 | 19.94              | 20.00              |
|                      |                 |           | MID        | 64QAM      | 19.90 | 19.85 | 19.93              | 20.00              |
|                      | HIGH            |           | 64QAM      | 19.83      | 19.73 | 19.75 | 20.00              |                    |
|                      | 50              | LOW       | 64QAM      | 19.70      | 19.72 | 19.83 | 20.00              |                    |
|                      |                 | MID       | 64QAM      | 19.87      | 19.59 | 19.61 | 20.00              |                    |
|                      |                 | HIGH      | 64QAM      | 19.73      | 19.70 | 19.74 | 20.00              |                    |
|                      | 100             | LOW       | 64QAM      | 19.67      | 19.92 | 19.73 | 20.00              |                    |
|                      | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20025 | 20175 | 20325              | Tune-up power(dBm) |
|                      | 15              | 1         | LOW        | QPSK       | 19.66 | 19.50 | 19.56              | 20.00              |
| MID                  |                 |           | QPSK       | 19.61      | 19.90 | 19.76 | 20.00              |                    |
| HIGH                 |                 |           | QPSK       | 19.56      | 19.69 | 19.77 | 20.00              |                    |
| 36                   |                 | LOW       | QPSK       | 19.78      | 19.49 | 19.89 | 20.00              |                    |
|                      |                 | MID       | QPSK       | 19.65      | 19.90 | 19.68 | 20.00              |                    |
|                      |                 | HIGH      | QPSK       | 19.64      | 19.70 | 19.78 | 20.00              |                    |
| 75                   |                 | LOW       | QPSK       | 19.73      | 19.48 | 19.70 | 20.00              |                    |
| 15                   |                 | 1         | LOW        | Q16        | 19.96 | 19.67 | 19.60              | 20.00              |
|                      |                 |           | MID        | Q16        | 19.87 | 19.94 | 19.86              | 20.00              |
|                      | HIGH            |           | Q16        | 19.72      | 19.90 | 19.87 | 20.00              |                    |
|                      | 36              | LOW       | Q16        | 19.67      | 19.55 | 19.68 | 20.00              |                    |
|                      |                 | MID       | Q16        | 19.63      | 19.56 | 19.78 | 20.00              |                    |
|                      |                 | HIGH      | Q16        | 19.86      | 19.52 | 19.75 | 20.00              |                    |
|                      | 75              | LOW       | Q16        | 19.77      | 19.72 | 19.67 | 20.00              |                    |
|                      | 15              | 1         | LOW        | 64QAM      | 19.86 | 19.71 | 19.65              | 20.00              |
|                      |                 |           | MID        | 64QAM      | 19.87 | 19.76 | 19.76              | 20.00              |
| HIGH                 |                 |           | 64QAM      | 19.88      | 19.72 | 19.66 | 20.00              |                    |
| 36                   |                 | LOW       | 64QAM      | 19.60      | 19.62 | 19.64 | 20.00              |                    |
|                      |                 | MID       | 64QAM      | 19.75      | 19.58 | 19.73 | 20.00              |                    |
|                      |                 | HIGH      | 64QAM      | 19.97      | 19.53 | 19.77 | 20.00              |                    |
| 75                   |                 | LOW       | 64QAM      | 19.55      | 19.74 | 19.83 | 20.00              |                    |
| Bandwidth (MHz)      |                 | RB Size   | RB offset  | Modulation | 20050 | 20175 | 20300              | Tune-up power(dBm) |
| 20                   |                 | 1         | LOW        | QPSK       | 19.58 | 19.56 | 19.56              | 20.00              |
|                      | MID             |           | QPSK       | 19.75      | 19.79 | 19.73 | 20.00              |                    |
|                      | HIGH            |           | QPSK       | 19.66      | 19.80 | 19.65 | 20.00              |                    |
|                      | 50              | LOW       | QPSK       | 19.67      | 19.64 | 19.75 | 20.00              |                    |
|                      |                 | MID       | QPSK       | 19.72      | 19.77 | 19.76 | 20.00              |                    |
|                      |                 | HIGH      | QPSK       | 19.75      | 19.62 | 19.75 | 20.00              |                    |
|                      | 100             | LOW       | QPSK       | 19.74      | 19.62 | 19.77 | 20.00              |                    |
|                      | 20              | 1         | LOW        | Q16        | 19.81 | 19.77 | 19.71              | 20.00              |
|                      |                 |           | MID        | Q16        | 19.90 | 19.96 | 19.94              | 20.00              |
| HIGH                 |                 |           | Q16        | 19.86      | 19.87 | 19.79 | 20.00              |                    |
| 50                   |                 | LOW       | Q16        | 19.71      | 19.65 | 19.71 | 20.00              |                    |
|                      |                 | MID       | Q16        | 19.74      | 19.71 | 19.75 | 20.00              |                    |
|                      |                 | HIGH      | Q16        | 19.77      | 19.63 | 19.73 | 20.00              |                    |
| 100                  |                 | LOW       | Q16        | 19.75      | 19.64 | 19.77 | 20.00              |                    |
| 20                   |                 | 1         | LOW        | 64QAM      | 19.89 | 19.83 | 19.80              | 20.00              |
|                      |                 |           | MID        | 64QAM      | 19.92 | 19.87 | 19.90              | 20.00              |
|                      | HIGH            |           | 64QAM      | 19.84      | 19.84 | 19.79 | 20.00              |                    |
|                      | 50              | LOW       | 64QAM      | 19.63      | 19.67 | 19.78 | 20.00              |                    |
|                      |                 | MID       | 64QAM      | 19.79      | 19.68 | 19.67 | 20.00              |                    |
|                      |                 | HIGH      | 64QAM      | 19.83      | 19.59 | 19.62 | 20.00              |                    |
|                      | 100             | LOW       | 64QAM      | 19.60      | 19.77 | 19.71 | 20.00              |                    |

### 8.3.3 LTE Band5 Output Power

| LTE B5-Full Power -Ant.1 |         |           |            |       |       |       |                    |
|--------------------------|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (MHz)          | RB Size | RB offset | Modulation | 20407 | 20525 | 20643 | Tune-up power(dBm) |
| 1.4                      | 1       | LOW       | QPSK       | 23.02 | 23.06 | 23.01 | 24.50              |
|                          |         | MID       | QPSK       | 23.03 | 23.07 | 23.01 | 24.50              |
|                          |         | HIGH      | QPSK       | 23.10 | 23.06 | 22.98 | 24.50              |
|                          | 3       | LOW       | QPSK       | 23.12 | 23.15 | 23.14 | 24.50              |
|                          |         | MID       | QPSK       | 23.13 | 23.12 | 23.16 | 24.50              |
|                          |         | HIGH      | QPSK       | 23.11 | 23.14 | 23.12 | 24.50              |
| 6                        | LOW     | QPSK      | 22.15      | 22.19 | 22.12 | 23.50 |                    |
| 1.4                      | 1       | LOW       | Q16        | 22.24 | 22.57 | 22.08 | 23.50              |
|                          |         | MID       | Q16        | 22.27 | 22.53 | 22.04 | 23.50              |
|                          |         | HIGH      | Q16        | 22.25 | 22.53 | 22.05 | 23.50              |
|                          | 3       | LOW       | Q16        | 22.22 | 22.38 | 22.23 | 23.50              |
|                          |         | MID       | Q16        | 22.23 | 22.35 | 22.20 | 23.50              |
|                          |         | HIGH      | Q16        | 22.24 | 22.37 | 22.18 | 23.50              |
| 6                        | LOW     | Q16       | 21.27      | 21.04 | 21.25 | 22.50 |                    |
| 1.4                      | 1       | LOW       | 64QAM      | 21.19 | 21.55 | 21.17 | 22.50              |
|                          |         | MID       | 64QAM      | 21.33 | 21.55 | 20.96 | 22.50              |
|                          |         | HIGH      | 64QAM      | 21.34 | 21.46 | 21.17 | 22.50              |
|                          | 3       | LOW       | 64QAM      | 21.07 | 21.27 | 21.24 | 22.50              |
|                          |         | MID       | 64QAM      | 21.10 | 21.42 | 21.08 | 22.50              |
|                          |         | HIGH      | 64QAM      | 21.31 | 21.26 | 21.30 | 22.50              |
| 6                        | LOW     | 64QAM     | 20.31      | 19.99 | 20.38 | 21.50 |                    |
| Bandwidth (MHz)          | RB Size | RB offset | Modulation | 20415 | 20525 | 20635 | Tune-up power(dBm) |
| 3                        | 1       | LOW       | QPSK       | 23.10 | 23.27 | 23.25 | 24.50              |
|                          |         | MID       | QPSK       | 23.15 | 23.04 | 23.08 | 24.50              |
|                          |         | HIGH      | QPSK       | 23.09 | 23.20 | 23.21 | 24.50              |
|                          | 8       | LOW       | QPSK       | 22.33 | 22.02 | 22.14 | 23.50              |
|                          |         | MID       | QPSK       | 22.16 | 22.21 | 22.29 | 23.50              |
|                          |         | HIGH      | QPSK       | 22.32 | 22.21 | 22.27 | 23.50              |
| 15                       | LOW     | QPSK      | 22.09      | 22.33 | 22.21 | 23.50 |                    |
| 3                        | 1       | LOW       | Q16        | 22.16 | 22.38 | 22.13 | 23.50              |
|                          |         | MID       | Q16        | 22.10 | 22.58 | 22.06 | 23.50              |
|                          |         | HIGH      | Q16        | 22.08 | 22.62 | 21.92 | 23.50              |
|                          | 8       | LOW       | Q16        | 21.17 | 21.16 | 21.23 | 22.50              |
|                          |         | MID       | Q16        | 21.08 | 21.18 | 21.11 | 22.50              |
|                          |         | HIGH      | Q16        | 21.10 | 21.19 | 21.26 | 22.50              |
| 15                       | LOW     | Q16       | 21.12      | 21.11 | 21.24 | 22.50 |                    |
| 3                        | 1       | LOW       | 64QAM      | 21.07 | 21.44 | 21.10 | 22.50              |
|                          |         | MID       | 64QAM      | 21.05 | 21.44 | 21.18 | 22.50              |
|                          |         | HIGH      | 64QAM      | 21.02 | 21.45 | 21.04 | 22.50              |
|                          | 8       | LOW       | 64QAM      | 20.24 | 20.20 | 20.25 | 21.50              |
|                          |         | MID       | 64QAM      | 20.25 | 20.04 | 20.21 | 21.50              |
|                          |         | HIGH      | 64QAM      | 20.21 | 20.29 | 20.11 | 21.50              |
| 15                       | LOW     | 64QAM     | 20.11      | 20.22 | 20.18 | 21.50 |                    |

| LTE B5-Full Power -Ant.1 |             |           |            |            |       |       |                    |                    |
|--------------------------|-------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (              | RB Size     | RB offset | Modulation | 20425      | 20525 | 20625 | Tune-up power(dBm) |                    |
| 5                        | 1           | LOW       | QPSK       | 23.04      | 23.24 | 22.96 | 24.50              |                    |
|                          |             | MID       | QPSK       | 23.13      | 23.08 | 23.15 | 24.50              |                    |
|                          |             | HIGH      | QPSK       | 23.15      | 23.02 | 23.20 | 24.50              |                    |
|                          | 12          | LOW       | QPSK       | 22.30      | 22.04 | 22.07 | 23.50              |                    |
|                          |             | MID       | QPSK       | 22.26      | 22.16 | 22.09 | 23.50              |                    |
|                          |             | HIGH      | QPSK       | 22.18      | 22.23 | 22.11 | 23.50              |                    |
|                          | 25          | LOW       | QPSK       | 22.38      | 22.16 | 22.11 | 23.50              |                    |
|                          | 5           | 1         | LOW        | Q16        | 22.12 | 22.51 | 22.12              | 23.50              |
|                          |             |           | MID        | Q16        | 22.06 | 22.47 | 22.10              | 23.50              |
| HIGH                     |             |           | Q16        | 22.15      | 22.40 | 22.13 | 23.50              |                    |
| 12                       |             | LOW       | Q16        | 21.13      | 21.13 | 21.17 | 22.50              |                    |
|                          |             | MID       | Q16        | 21.37      | 21.07 | 21.18 | 22.50              |                    |
|                          |             | HIGH      | Q16        | 21.18      | 21.23 | 21.42 | 22.50              |                    |
| 25                       |             | LOW       | Q16        | 21.19      | 21.22 | 21.09 | 22.50              |                    |
| 5                        |             | 1         | LOW        | 64QAM      | 20.95 | 21.68 | 21.02              | 22.50              |
|                          |             |           | MID        | 64QAM      | 20.94 | 21.44 | 21.23              | 22.50              |
|                          | HIGH        |           | 64QAM      | 20.91      | 21.39 | 20.87 | 22.50              |                    |
|                          | 12          | LOW       | 64QAM      | 20.34      | 20.42 | 20.36 | 21.50              |                    |
|                          |             | MID       | 64QAM      | 20.12      | 20.05 | 20.29 | 21.50              |                    |
|                          |             | HIGH      | 64QAM      | 20.26      | 20.09 | 20.15 | 21.50              |                    |
|                          | 25          | LOW       | 64QAM      | 20.18      | 20.19 | 20.18 | 21.50              |                    |
|                          | Bandwidth ( | RB Size   | RB offset  | Modulation | 20450 | 20525 | 20600              | Tune-up power(dBm) |
|                          | 10          | 1         | LOW        | QPSK       | 23.11 | 23.16 | 23.16              | 24.50              |
| MID                      |             |           | QPSK       | 23.14      | 23.16 | 23.25 | 24.50              |                    |
| HIGH                     |             |           | QPSK       | 23.06      | 23.15 | 23.24 | 24.50              |                    |
| 25                       |             | LOW       | QPSK       | 22.22      | 22.15 | 22.23 | 23.50              |                    |
|                          |             | MID       | QPSK       | 22.17      | 22.17 | 22.17 | 23.50              |                    |
|                          |             | HIGH      | QPSK       | 22.22      | 22.19 | 22.21 | 23.50              |                    |
| 50                       |             | LOW       | QPSK       | 22.23      | 22.20 | 22.24 | 23.50              |                    |
| 10                       |             | 1         | LOW        | Q16        | 22.04 | 22.52 | 22.11              | 23.50              |
|                          |             |           | MID        | Q16        | 22.11 | 22.52 | 22.12              | 23.50              |
|                          | HIGH        |           | Q16        | 22.11      | 22.54 | 22.04 | 23.50              |                    |
|                          | 25          | LOW       | Q16        | 21.24      | 21.19 | 21.30 | 22.50              |                    |
|                          |             | MID       | Q16        | 21.22      | 21.22 | 21.24 | 22.50              |                    |
|                          |             | HIGH      | Q16        | 21.23      | 21.25 | 21.28 | 22.50              |                    |
|                          | 50          | LOW       | Q16        | 21.18      | 21.19 | 21.24 | 22.50              |                    |
|                          | 10          | 1         | LOW        | 64QAM      | 21.04 | 21.54 | 21.03              | 22.50              |
|                          |             |           | MID        | 64QAM      | 21.01 | 21.57 | 21.18              | 22.50              |
| HIGH                     |             |           | 64QAM      | 21.04      | 21.50 | 21.00 | 22.50              |                    |
| 25                       |             | LOW       | 64QAM      | 20.23      | 20.28 | 20.28 | 21.50              |                    |
|                          |             | MID       | 64QAM      | 20.26      | 20.12 | 20.14 | 21.50              |                    |
|                          |             | HIGH      | 64QAM      | 20.32      | 20.22 | 20.15 | 21.50              |                    |
| 50                       |             | LOW       | 64QAM      | 20.22      | 20.19 | 20.20 | 21.50              |                    |

| LTE B5-State1&2&3&4&5&6 -Ant.1 |         |           |            |       |       |       |                    |
|--------------------------------|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (                    | RB Size | RB offset | Modulation | 20407 | 20525 | 20643 | Tune-up power(dBm) |
| 1.4                            | 1       | LOW       | QPSK       | 23.02 | 23.06 | 23.01 | 24.50              |
|                                |         | MID       | QPSK       | 23.03 | 23.07 | 23.01 | 24.50              |
|                                |         | HIGH      | QPSK       | 23.10 | 23.06 | 22.98 | 24.50              |
|                                | 3       | LOW       | QPSK       | 23.12 | 23.15 | 23.14 | 24.50              |
|                                |         | MID       | QPSK       | 23.13 | 23.12 | 23.16 | 24.50              |
|                                |         | HIGH      | QPSK       | 23.11 | 23.14 | 23.12 | 24.50              |
| 6                              | LOW     | QPSK      | 22.15      | 22.19 | 22.12 | 23.50 |                    |
| 1.4                            | 1       | LOW       | Q16        | 22.24 | 22.57 | 22.08 | 23.50              |
|                                |         | MID       | Q16        | 22.27 | 22.53 | 22.04 | 23.50              |
|                                |         | HIGH      | Q16        | 22.25 | 22.53 | 22.05 | 23.50              |
|                                | 3       | LOW       | Q16        | 22.22 | 22.38 | 22.23 | 23.50              |
|                                |         | MID       | Q16        | 22.23 | 22.35 | 22.20 | 23.50              |
|                                |         | HIGH      | Q16        | 22.24 | 22.37 | 22.18 | 23.50              |
| 6                              | LOW     | Q16       | 21.27      | 21.04 | 21.25 | 22.50 |                    |
| 1.4                            | 1       | LOW       | 64QAM      | 21.19 | 21.55 | 21.17 | 22.50              |
|                                |         | MID       | 64QAM      | 21.33 | 21.55 | 20.96 | 22.50              |
|                                |         | HIGH      | 64QAM      | 21.34 | 21.46 | 21.17 | 22.50              |
|                                | 3       | LOW       | 64QAM      | 21.07 | 21.27 | 21.24 | 22.50              |
|                                |         | MID       | 64QAM      | 21.10 | 21.42 | 21.08 | 22.50              |
|                                |         | HIGH      | 64QAM      | 21.31 | 21.26 | 21.30 | 22.50              |
| 6                              | LOW     | 64QAM     | 20.31      | 19.99 | 20.38 | 21.50 |                    |
| Bandwidth (                    | RB Size | RB offset | Modulation | 20415 | 20525 | 20635 | Tune-up power(dBm) |
| 3                              | 1       | LOW       | QPSK       | 23.10 | 23.27 | 23.25 | 24.50              |
|                                |         | MID       | QPSK       | 23.15 | 23.04 | 23.08 | 24.50              |
|                                |         | HIGH      | QPSK       | 23.09 | 23.20 | 23.21 | 24.50              |
|                                | 8       | LOW       | QPSK       | 22.33 | 22.02 | 22.14 | 23.50              |
|                                |         | MID       | QPSK       | 22.16 | 22.21 | 22.29 | 23.50              |
|                                |         | HIGH      | QPSK       | 22.32 | 22.21 | 22.27 | 23.50              |
| 15                             | LOW     | QPSK      | 22.09      | 22.33 | 22.21 | 23.50 |                    |
| 3                              | 1       | LOW       | Q16        | 22.16 | 22.38 | 22.13 | 23.50              |
|                                |         | MID       | Q16        | 22.10 | 22.58 | 22.06 | 23.50              |
|                                |         | HIGH      | Q16        | 22.08 | 22.62 | 21.92 | 23.50              |
|                                | 8       | LOW       | Q16        | 21.17 | 21.16 | 21.23 | 22.50              |
|                                |         | MID       | Q16        | 21.08 | 21.18 | 21.11 | 22.50              |
|                                |         | HIGH      | Q16        | 21.10 | 21.19 | 21.26 | 22.50              |
| 15                             | LOW     | Q16       | 21.12      | 21.11 | 21.24 | 22.50 |                    |
| 3                              | 1       | LOW       | 64QAM      | 21.07 | 21.44 | 21.10 | 22.50              |
|                                |         | MID       | 64QAM      | 21.05 | 21.44 | 21.18 | 22.50              |
|                                |         | HIGH      | 64QAM      | 21.02 | 21.45 | 21.04 | 22.50              |
|                                | 8       | LOW       | 64QAM      | 20.24 | 20.20 | 20.25 | 21.50              |
|                                |         | MID       | 64QAM      | 20.25 | 20.04 | 20.21 | 21.50              |
|                                |         | HIGH      | 64QAM      | 20.21 | 20.29 | 20.11 | 21.50              |
| 15                             | LOW     | 64QAM     | 20.11      | 20.22 | 20.18 | 21.50 |                    |

| LTE B5-State1&2&3&4&5&6 -Ant.1 |             |           |            |            |       |       |                    |                    |
|--------------------------------|-------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (                    | RB Size     | RB offset | Modulation | 20425      | 20525 | 20625 | Tune-up power(dBm) |                    |
| 5                              | 1           | LOW       | QPSK       | 23.04      | 23.24 | 22.96 | 24.50              |                    |
|                                |             | MID       | QPSK       | 23.13      | 23.08 | 23.15 | 24.50              |                    |
|                                |             | HIGH      | QPSK       | 23.15      | 23.02 | 23.20 | 24.50              |                    |
|                                | 12          | LOW       | QPSK       | 22.30      | 22.04 | 22.07 | 23.50              |                    |
|                                |             | MID       | QPSK       | 22.26      | 22.16 | 22.09 | 23.50              |                    |
|                                |             | HIGH      | QPSK       | 22.18      | 22.23 | 22.11 | 23.50              |                    |
|                                | 25          | LOW       | QPSK       | 22.38      | 22.16 | 22.11 | 23.50              |                    |
|                                | 5           | 1         | LOW        | Q16        | 22.12 | 22.51 | 22.12              | 23.50              |
|                                |             |           | MID        | Q16        | 22.06 | 22.47 | 22.10              | 23.50              |
| HIGH                           |             |           | Q16        | 22.15      | 22.40 | 22.13 | 23.50              |                    |
| 12                             |             | LOW       | Q16        | 21.13      | 21.13 | 21.17 | 22.50              |                    |
|                                |             | MID       | Q16        | 21.37      | 21.07 | 21.18 | 22.50              |                    |
|                                |             | HIGH      | Q16        | 21.18      | 21.23 | 21.42 | 22.50              |                    |
| 25                             |             | LOW       | Q16        | 21.19      | 21.22 | 21.09 | 22.50              |                    |
| 5                              |             | 1         | LOW        | 64QAM      | 20.95 | 21.68 | 21.02              | 22.50              |
|                                |             |           | MID        | 64QAM      | 20.94 | 21.44 | 21.23              | 22.50              |
|                                | HIGH        |           | 64QAM      | 20.91      | 21.39 | 20.87 | 22.50              |                    |
|                                | 12          | LOW       | 64QAM      | 20.34      | 20.42 | 20.36 | 21.50              |                    |
|                                |             | MID       | 64QAM      | 20.12      | 20.05 | 20.29 | 21.50              |                    |
|                                |             | HIGH      | 64QAM      | 20.26      | 20.09 | 20.15 | 21.50              |                    |
|                                | 25          | LOW       | 64QAM      | 20.18      | 20.19 | 20.18 | 21.50              |                    |
|                                | Bandwidth ( | RB Size   | RB offset  | Modulation | 20450 | 20525 | 20600              | Tune-up power(dBm) |
|                                | 10          | 1         | LOW        | QPSK       | 23.11 | 23.16 | 23.16              | 24.50              |
| MID                            |             |           | QPSK       | 23.14      | 23.16 | 23.25 | 24.50              |                    |
| HIGH                           |             |           | QPSK       | 23.06      | 23.15 | 23.24 | 24.50              |                    |
| 25                             |             | LOW       | QPSK       | 22.22      | 22.15 | 22.23 | 23.50              |                    |
|                                |             | MID       | QPSK       | 22.17      | 22.17 | 22.17 | 23.50              |                    |
|                                |             | HIGH      | QPSK       | 22.22      | 22.19 | 22.21 | 23.50              |                    |
| 50                             |             | LOW       | QPSK       | 22.23      | 22.20 | 22.24 | 23.50              |                    |
| 10                             |             | 1         | LOW        | Q16        | 22.04 | 22.52 | 22.11              | 23.50              |
|                                |             |           | MID        | Q16        | 22.11 | 22.52 | 22.12              | 23.50              |
|                                | HIGH        |           | Q16        | 22.11      | 22.54 | 22.04 | 23.50              |                    |
|                                | 25          | LOW       | Q16        | 21.24      | 21.19 | 21.30 | 22.50              |                    |
|                                |             | MID       | Q16        | 21.22      | 21.22 | 21.24 | 22.50              |                    |
|                                |             | HIGH      | Q16        | 21.23      | 21.25 | 21.28 | 22.50              |                    |
|                                | 50          | LOW       | Q16        | 21.18      | 21.19 | 21.24 | 22.50              |                    |
|                                | 10          | 1         | LOW        | 64QAM      | 21.04 | 21.54 | 21.03              | 22.50              |
|                                |             |           | MID        | 64QAM      | 21.01 | 21.57 | 21.18              | 22.50              |
| HIGH                           |             |           | 64QAM      | 21.04      | 21.50 | 21.00 | 22.50              |                    |
| 25                             |             | LOW       | 64QAM      | 20.23      | 20.28 | 20.28 | 21.50              |                    |
|                                |             | MID       | 64QAM      | 20.26      | 20.12 | 20.14 | 21.50              |                    |
|                                |             | HIGH      | 64QAM      | 20.32      | 20.22 | 20.15 | 21.50              |                    |
| 50                             |             | LOW       | 64QAM      | 20.22      | 20.19 | 20.20 | 21.50              |                    |

### 8.3.3 LTE Band5 Output Power

| LTE B5-Full Power -Ant.0 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 20407      | 20525 | 20643 | Tune-up power(dBm) |                    |
| 1.4                      | 1               | LOW       | QPSK       | 23.32      | 23.33 | 23.27 | 24.50              |                    |
|                          |                 | MID       | QPSK       | 23.32      | 23.31 | 23.27 | 24.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.34      | 23.31 | 23.28 | 24.50              |                    |
|                          | 3               | LOW       | QPSK       | 23.42      | 23.40 | 23.42 | 24.50              |                    |
|                          |                 | MID       | QPSK       | 23.43      | 23.39 | 23.44 | 24.50              |                    |
|                          |                 | HIGH      | QPSK       | 23.42      | 23.39 | 23.40 | 24.50              |                    |
|                          | 6               | LOW       | QPSK       | 22.45      | 22.43 | 22.40 | 23.50              |                    |
|                          | 1.4             | 1         | LOW        | Q16        | 22.52 | 22.81 | 22.34              | 23.50              |
|                          |                 |           | MID        | Q16        | 22.54 | 22.78 | 22.30              | 23.50              |
| HIGH                     |                 |           | Q16        | 22.55      | 22.77 | 22.30 | 23.50              |                    |
| 3                        |                 | LOW       | Q16        | 22.49      | 22.64 | 22.50 | 23.50              |                    |
|                          |                 | MID       | Q16        | 22.49      | 22.60 | 22.46 | 23.50              |                    |
|                          |                 | HIGH      | Q16        | 22.49      | 22.61 | 22.47 | 23.50              |                    |
| 6                        |                 | LOW       | Q16        | 21.58      | 21.25 | 21.53 | 22.50              |                    |
| 1.4                      |                 | 1         | LOW        | 64QAM      | 21.54 | 21.75 | 21.35              | 22.50              |
|                          |                 |           | MID        | 64QAM      | 21.66 | 21.68 | 21.42              | 22.50              |
|                          | HIGH            |           | 64QAM      | 21.45      | 21.76 | 21.24 | 22.50              |                    |
|                          | 3               | LOW       | 64QAM      | 21.57      | 21.50 | 21.39 | 22.50              |                    |
|                          |                 | MID       | 64QAM      | 21.63      | 21.67 | 21.35 | 22.50              |                    |
|                          |                 | HIGH      | 64QAM      | 21.51      | 21.74 | 21.49 | 22.50              |                    |
|                          | 6               | LOW       | 64QAM      | 20.61      | 20.22 | 20.38 | 21.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20415 | 20525 | 20635              | Tune-up power(dBm) |
|                          | 3               | 1         | LOW        | QPSK       | 23.52 | 23.42 | 23.26              | 24.50              |
| MID                      |                 |           | QPSK       | 23.59      | 23.35 | 23.25 | 24.50              |                    |
| HIGH                     |                 |           | QPSK       | 23.61      | 23.55 | 23.17 | 24.50              |                    |
| 8                        |                 | LOW       | QPSK       | 22.54      | 22.37 | 22.33 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 22.43      | 22.36 | 22.30 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.43      | 22.43 | 22.59 | 23.50              |                    |
| 15                       |                 | LOW       | QPSK       | 22.33      | 22.50 | 22.45 | 23.50              |                    |
| 3                        |                 | 1         | LOW        | Q16        | 22.26 | 22.80 | 22.44              | 23.50              |
|                          |                 |           | MID        | Q16        | 22.36 | 22.73 | 22.49              | 23.50              |
|                          | HIGH            |           | Q16        | 22.27      | 22.95 | 22.27 | 23.50              |                    |
|                          | 8               | LOW       | Q16        | 21.32      | 21.67 | 21.54 | 22.50              |                    |
|                          |                 | MID       | Q16        | 21.51      | 21.53 | 21.53 | 22.50              |                    |
|                          |                 | HIGH      | Q16        | 21.64      | 21.40 | 21.54 | 22.50              |                    |
|                          | 15              | LOW       | Q16        | 21.34      | 21.37 | 21.51 | 22.50              |                    |
|                          | 3               | 1         | LOW        | 64QAM      | 21.29 | 21.74 | 21.52              | 22.50              |
|                          |                 |           | MID        | 64QAM      | 21.11 | 21.77 | 21.25              | 22.50              |
| HIGH                     |                 |           | 64QAM      | 21.24      | 21.84 | 21.18 | 22.50              |                    |
| 8                        |                 | LOW       | 64QAM      | 20.26      | 20.41 | 20.35 | 21.50              |                    |
|                          |                 | MID       | 64QAM      | 20.74      | 20.46 | 20.57 | 21.50              |                    |
|                          |                 | HIGH      | 64QAM      | 20.29      | 20.74 | 20.72 | 21.50              |                    |
| 15                       |                 | LOW       | 64QAM      | 20.38      | 20.31 | 20.48 | 21.50              |                    |

| LTE B5-Full Power -Ant.0 |             |           |            |            |       |       |                    |                    |
|--------------------------|-------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (              | RB Size     | RB offset | Modulation | 20425      | 20525 | 20625 | Tune-up power(dBm) |                    |
| 5                        | 1           | LOW       | QPSK       | 23.57      | 23.52 | 23.31 | 24.50              |                    |
|                          |             | MID       | QPSK       | 23.45      | 23.29 | 23.44 | 24.50              |                    |
|                          |             | HIGH      | QPSK       | 23.41      | 23.49 | 23.42 | 24.50              |                    |
|                          | 12          | LOW       | QPSK       | 22.57      | 22.31 | 22.55 | 23.50              |                    |
|                          |             | MID       | QPSK       | 22.54      | 22.33 | 22.34 | 23.50              |                    |
|                          |             | HIGH      | QPSK       | 22.40      | 22.42 | 22.47 | 23.50              |                    |
|                          | 25          | LOW       | QPSK       | 22.35      | 22.58 | 22.52 | 23.50              |                    |
|                          | 5           | 1         | LOW        | Q16        | 22.22 | 22.70 | 22.51              | 23.50              |
|                          |             |           | MID        | Q16        | 22.48 | 22.68 | 22.26              | 23.50              |
| HIGH                     |             |           | Q16        | 22.50      | 22.80 | 22.41 | 23.50              |                    |
| 12                       |             | LOW       | Q16        | 21.32      | 21.45 | 21.45 | 22.50              |                    |
|                          |             | MID       | Q16        | 21.34      | 21.39 | 21.57 | 22.50              |                    |
|                          |             | HIGH      | Q16        | 21.66      | 21.60 | 21.56 | 22.50              |                    |
| 25                       |             | LOW       | Q16        | 21.38      | 21.40 | 21.61 | 22.50              |                    |
| 5                        |             | 1         | LOW        | 64QAM      | 21.45 | 21.71 | 21.38              | 22.50              |
|                          |             |           | MID        | 64QAM      | 21.36 | 21.87 | 21.36              | 22.50              |
|                          | HIGH        |           | 64QAM      | 21.23      | 21.83 | 21.21 | 22.50              |                    |
|                          | 12          | LOW       | 64QAM      | 20.41      | 20.46 | 20.47 | 21.50              |                    |
|                          |             | MID       | 64QAM      | 20.76      | 20.38 | 20.74 | 21.50              |                    |
|                          |             | HIGH      | 64QAM      | 20.32      | 20.65 | 20.64 | 21.50              |                    |
|                          | 25          | LOW       | 64QAM      | 20.32      | 20.25 | 20.42 | 21.50              |                    |
|                          | Bandwidth ( | RB Size   | RB offset  | Modulation | 20450 | 20525 | 20600              | Tune-up power(dBm) |
|                          | 10          | 1         | LOW        | QPSK       | 23.44 | 23.39 | 23.37              | 24.50              |
| MID                      |             |           | QPSK       | 23.50      | 23.42 | 23.40 | 24.50              |                    |
| HIGH                     |             |           | QPSK       | 23.53      | 23.41 | 23.32 | 24.50              |                    |
| 25                       |             | LOW       | QPSK       | 22.43      | 22.37 | 22.46 | 23.50              |                    |
|                          |             | MID       | QPSK       | 22.40      | 22.43 | 22.42 | 23.50              |                    |
|                          |             | HIGH      | QPSK       | 22.49      | 22.45 | 22.46 | 23.50              |                    |
| 50                       |             | LOW       | QPSK       | 22.46      | 22.49 | 22.49 | 23.50              |                    |
| 10                       |             | 1         | LOW        | Q16        | 22.28 | 22.80 | 22.39              | 23.50              |
|                          |             |           | MID        | Q16        | 22.37 | 22.78 | 22.41              | 23.50              |
|                          | HIGH        |           | Q16        | 22.39      | 22.81 | 22.30 | 23.50              |                    |
|                          | 25          | LOW       | Q16        | 21.44      | 21.52 | 21.55 | 22.50              |                    |
|                          |             | MID       | Q16        | 21.47      | 21.47 | 21.54 | 22.50              |                    |
|                          |             | HIGH      | Q16        | 21.54      | 21.48 | 21.54 | 22.50              |                    |
|                          | 50          | LOW       | Q16        | 21.45      | 21.43 | 21.48 | 22.50              |                    |
|                          | 10          | 1         | LOW        | 64QAM      | 21.36 | 21.82 | 21.38              | 22.50              |
|                          |             |           | MID        | 64QAM      | 21.26 | 21.88 | 21.33              | 22.50              |
| HIGH                     |             |           | 64QAM      | 21.26      | 21.75 | 21.31 | 22.50              |                    |
| 25                       |             | LOW       | 64QAM      | 20.31      | 20.50 | 20.43 | 21.50              |                    |
|                          |             | MID       | 64QAM      | 20.62      | 20.46 | 20.69 | 21.50              |                    |
|                          |             | HIGH      | 64QAM      | 20.42      | 20.63 | 20.69 | 21.50              |                    |
| 50                       |             | LOW       | 64QAM      | 20.30      | 20.40 | 20.55 | 21.50              |                    |

| LTE B5-State1&2&3&4&5&6 -Ant.0 |         |           |            |       |       |       |                    |
|--------------------------------|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (                    | RB Size | RB offset | Modulation | 20407 | 20525 | 20643 | Tune-up power(dBm) |
| 1.4                            | 1       | LOW       | QPSK       | 23.32 | 23.33 | 23.27 | 24.50              |
|                                |         | MID       | QPSK       | 23.32 | 23.31 | 23.27 | 24.50              |
|                                |         | HIGH      | QPSK       | 23.34 | 23.31 | 23.28 | 24.50              |
|                                | 3       | LOW       | QPSK       | 23.42 | 23.40 | 23.42 | 24.50              |
|                                |         | MID       | QPSK       | 23.43 | 23.39 | 23.44 | 24.50              |
|                                |         | HIGH      | QPSK       | 23.42 | 23.39 | 23.40 | 24.50              |
| 6                              | LOW     | QPSK      | 22.45      | 22.43 | 22.40 | 23.50 |                    |
| 1.4                            | 1       | LOW       | Q16        | 22.52 | 22.81 | 22.34 | 23.50              |
|                                |         | MID       | Q16        | 22.54 | 22.78 | 22.30 | 23.50              |
|                                |         | HIGH      | Q16        | 22.55 | 22.77 | 22.30 | 23.50              |
|                                | 3       | LOW       | Q16        | 22.49 | 22.64 | 22.50 | 23.50              |
|                                |         | MID       | Q16        | 22.49 | 22.60 | 22.46 | 23.50              |
|                                |         | HIGH      | Q16        | 22.49 | 22.61 | 22.47 | 23.50              |
| 6                              | LOW     | Q16       | 21.58      | 21.25 | 21.53 | 22.50 |                    |
| 1.4                            | 1       | LOW       | 64QAM      | 21.54 | 21.75 | 21.35 | 22.50              |
|                                |         | MID       | 64QAM      | 21.66 | 21.68 | 21.42 | 22.50              |
|                                |         | HIGH      | 64QAM      | 21.45 | 21.76 | 21.24 | 22.50              |
|                                | 3       | LOW       | 64QAM      | 21.57 | 21.50 | 21.39 | 22.50              |
|                                |         | MID       | 64QAM      | 21.63 | 21.67 | 21.35 | 22.50              |
|                                |         | HIGH      | 64QAM      | 21.51 | 21.74 | 21.49 | 22.50              |
| 6                              | LOW     | 64QAM     | 20.61      | 20.22 | 20.38 | 21.50 |                    |
| Bandwidth (                    | RB Size | RB offset | Modulation | 20415 | 20525 | 20635 | Tune-up power(dBm) |
| 3                              | 1       | LOW       | QPSK       | 23.52 | 23.42 | 23.26 | 24.50              |
|                                |         | MID       | QPSK       | 23.59 | 23.35 | 23.25 | 24.50              |
|                                |         | HIGH      | QPSK       | 23.61 | 23.55 | 23.17 | 24.50              |
|                                | 8       | LOW       | QPSK       | 22.54 | 22.37 | 22.33 | 23.50              |
|                                |         | MID       | QPSK       | 22.43 | 22.36 | 22.30 | 23.50              |
|                                |         | HIGH      | QPSK       | 22.43 | 22.43 | 22.59 | 23.50              |
| 15                             | LOW     | QPSK      | 22.33      | 22.50 | 22.45 | 23.50 |                    |
| 3                              | 1       | LOW       | Q16        | 22.26 | 22.80 | 22.44 | 23.50              |
|                                |         | MID       | Q16        | 22.36 | 22.73 | 22.49 | 23.50              |
|                                |         | HIGH      | Q16        | 22.27 | 22.95 | 22.27 | 23.50              |
|                                | 8       | LOW       | Q16        | 21.32 | 21.67 | 21.54 | 22.50              |
|                                |         | MID       | Q16        | 21.51 | 21.53 | 21.53 | 22.50              |
|                                |         | HIGH      | Q16        | 21.64 | 21.40 | 21.54 | 22.50              |
| 15                             | LOW     | Q16       | 21.34      | 21.37 | 21.51 | 22.50 |                    |
| 3                              | 1       | LOW       | 64QAM      | 21.29 | 21.74 | 21.52 | 22.50              |
|                                |         | MID       | 64QAM      | 21.11 | 21.77 | 21.25 | 22.50              |
|                                |         | HIGH      | 64QAM      | 21.24 | 21.84 | 21.18 | 22.50              |
|                                | 8       | LOW       | 64QAM      | 20.26 | 20.41 | 20.35 | 21.50              |
|                                |         | MID       | 64QAM      | 20.74 | 20.46 | 20.57 | 21.50              |
|                                |         | HIGH      | 64QAM      | 20.29 | 20.74 | 20.72 | 21.50              |
| 15                             | LOW     | 64QAM     | 20.38      | 20.31 | 20.48 | 21.50 |                    |



| LTE B5-State1&2&3&4&5&6 -Ant.0 |             |           |            |            |       |       |                    |                    |
|--------------------------------|-------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (                    | RB Size     | RB offset | Modulation | 20425      | 20525 | 20625 | Tune-up power(dBm) |                    |
| 5                              | 1           | LOW       | QPSK       | 23.57      | 23.52 | 23.31 | 24.50              |                    |
|                                |             | MID       | QPSK       | 23.45      | 23.29 | 23.44 | 24.50              |                    |
|                                |             | HIGH      | QPSK       | 23.41      | 23.49 | 23.42 | 24.50              |                    |
|                                | 12          | LOW       | QPSK       | 22.57      | 22.31 | 22.55 | 23.50              |                    |
|                                |             | MID       | QPSK       | 22.54      | 22.33 | 22.34 | 23.50              |                    |
|                                |             | HIGH      | QPSK       | 22.40      | 22.42 | 22.47 | 23.50              |                    |
|                                | 25          | LOW       | QPSK       | 22.35      | 22.58 | 22.52 | 23.50              |                    |
|                                | 5           | 1         | LOW        | Q16        | 22.22 | 22.70 | 22.51              | 23.50              |
|                                |             |           | MID        | Q16        | 22.48 | 22.68 | 22.26              | 23.50              |
| HIGH                           |             |           | Q16        | 22.50      | 22.80 | 22.41 | 23.50              |                    |
| 12                             |             | LOW       | Q16        | 21.32      | 21.45 | 21.45 | 22.50              |                    |
|                                |             | MID       | Q16        | 21.34      | 21.39 | 21.57 | 22.50              |                    |
|                                |             | HIGH      | Q16        | 21.66      | 21.60 | 21.56 | 22.50              |                    |
| 25                             |             | LOW       | Q16        | 21.38      | 21.40 | 21.61 | 22.50              |                    |
| 5                              |             | 1         | LOW        | 64QAM      | 21.45 | 21.71 | 21.38              | 22.50              |
|                                |             |           | MID        | 64QAM      | 21.36 | 21.87 | 21.36              | 22.50              |
|                                | HIGH        |           | 64QAM      | 21.23      | 21.83 | 21.21 | 22.50              |                    |
|                                | 12          | LOW       | 64QAM      | 20.41      | 20.46 | 20.47 | 21.50              |                    |
|                                |             | MID       | 64QAM      | 20.76      | 20.38 | 20.74 | 21.50              |                    |
|                                |             | HIGH      | 64QAM      | 20.32      | 20.65 | 20.64 | 21.50              |                    |
|                                | 25          | LOW       | 64QAM      | 20.32      | 20.25 | 20.42 | 21.50              |                    |
|                                | Bandwidth ( | RB Size   | RB offset  | Modulation | 20450 | 20525 | 20600              | Tune-up power(dBm) |
|                                | 10          | 1         | LOW        | QPSK       | 23.44 | 23.50 | 23.37              | 24.50              |
| MID                            |             |           | QPSK       | 23.39      | 23.42 | 23.40 | 24.50              |                    |
| HIGH                           |             |           | QPSK       | 23.53      | 23.41 | 23.32 | 24.50              |                    |
| 25                             |             | LOW       | QPSK       | 22.43      | 22.37 | 22.46 | 23.50              |                    |
|                                |             | MID       | QPSK       | 22.40      | 22.49 | 22.42 | 23.50              |                    |
|                                |             | HIGH      | QPSK       | 22.43      | 22.45 | 22.46 | 23.50              |                    |
| 50                             |             | LOW       | QPSK       | 22.46      | 22.49 | 22.49 | 23.50              |                    |
| 10                             |             | 1         | LOW        | Q16        | 22.28 | 22.80 | 22.39              | 23.50              |
|                                |             |           | MID        | Q16        | 22.37 | 22.78 | 22.41              | 23.50              |
|                                | HIGH        |           | Q16        | 22.39      | 22.81 | 22.30 | 23.50              |                    |
|                                | 25          | LOW       | Q16        | 21.44      | 21.52 | 21.55 | 22.50              |                    |
|                                |             | MID       | Q16        | 21.47      | 21.47 | 21.54 | 22.50              |                    |
|                                |             | HIGH      | Q16        | 21.54      | 21.48 | 21.54 | 22.50              |                    |
|                                | 50          | LOW       | Q16        | 21.45      | 21.43 | 21.48 | 22.50              |                    |
|                                | 10          | 1         | LOW        | 64QAM      | 21.36 | 21.82 | 21.38              | 22.50              |
|                                |             |           | MID        | 64QAM      | 21.26 | 21.88 | 21.33              | 22.50              |
| HIGH                           |             |           | 64QAM      | 21.26      | 21.75 | 21.31 | 22.50              |                    |
| 25                             |             | LOW       | 64QAM      | 20.31      | 20.50 | 20.43 | 21.50              |                    |
|                                |             | MID       | 64QAM      | 20.62      | 20.46 | 20.69 | 21.50              |                    |
|                                |             | HIGH      | 64QAM      | 20.42      | 20.63 | 20.69 | 21.50              |                    |
| 50                             |             | LOW       | 64QAM      | 20.30      | 20.40 | 20.55 | 21.50              |                    |

### 8.3.4 LTE Band7 Output Power

| LTE B7-Full Power -Ant.4 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                        | 1               | LOW       | QPSK       | 22.84      | 22.52 | 22.37 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 22.89      | 22.53 | 22.32 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.86      | 22.48 | 22.33 | 23.50              |                    |
|                          | 12              | LOW       | QPSK       | 21.80      | 21.46 | 21.38 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 21.77      | 21.39 | 21.31 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.79      | 21.41 | 21.23 | 22.50              |                    |
|                          | 25              | LOW       | QPSK       | 21.80      | 21.42 | 21.34 | 22.50              |                    |
|                          | 5               | 1         | LOW        | Q16        | 21.93 | 21.94 | 21.44              | 22.50              |
|                          |                 |           | MID        | Q16        | 21.98 | 21.98 | 21.39              | 22.50              |
| HIGH                     |                 |           | Q16        | 21.97      | 21.90 | 21.34 | 22.50              |                    |
| 12                       |                 | LOW       | Q16        | 20.84      | 20.56 | 20.42 | 21.50              |                    |
|                          |                 | MID       | Q16        | 20.86      | 20.49 | 20.34 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.81      | 20.49 | 20.30 | 21.50              |                    |
| 25                       |                 | LOW       | Q16        | 20.80      | 20.47 | 20.28 | 21.50              |                    |
| 5                        |                 | 1         | LOW        | 64QAM      | 20.92 | 20.81 | 20.37              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.00 | 20.94 | 20.40              | 21.50              |
|                          | HIGH            |           | 64QAM      | 20.97      | 21.00 | 20.34 | 21.50              |                    |
|                          | 12              | LOW       | 64QAM      | 19.74      | 19.57 | 19.37 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 19.93      | 19.61 | 19.32 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.66      | 19.64 | 19.17 | 20.50              |                    |
|                          | 25              | LOW       | 64QAM      | 19.87      | 19.48 | 19.29 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                          | 10              | 1         | LOW        | QPSK       | 22.65 | 22.48 | 22.30              | 23.50              |
| MID                      |                 |           | QPSK       | 22.81      | 22.49 | 22.27 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 22.50      | 22.19 | 22.03 | 23.50              |                    |
| 25                       |                 | LOW       | QPSK       | 21.81      | 21.44 | 21.43 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 21.77      | 21.63 | 21.51 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.50      | 21.41 | 21.33 | 22.50              |                    |
| 50                       |                 | LOW       | QPSK       | 21.68      | 21.41 | 21.27 | 22.50              |                    |
| 10                       |                 | 1         | LOW        | Q16        | 22.25 | 22.04 | 21.57              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.31 | 21.94 | 21.81              | 22.50              |
|                          | HIGH            |           | Q16        | 21.85      | 21.65 | 21.65 | 22.50              |                    |
|                          | 25              | LOW       | Q16        | 20.57      | 20.58 | 20.23 | 21.50              |                    |
|                          |                 | MID       | Q16        | 20.81      | 20.36 | 20.31 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.78      | 20.42 | 20.30 | 21.50              |                    |
|                          | 50              | LOW       | Q16        | 20.62      | 20.54 | 20.28 | 21.50              |                    |
|                          | 10              | 1         | LOW        | 64QAM      | 21.07 | 20.89 | 20.54              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.21 | 20.85 | 21.01              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 20.84      | 20.58 | 20.74 | 21.50              |                    |
| 25                       |                 | LOW       | 64QAM      | 19.56      | 19.25 | 19.56 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 19.53      | 19.65 | 19.12 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.75      | 19.37 | 19.38 | 20.50              |                    |
| 50                       |                 | LOW       | 64QAM      | 19.73      | 19.50 | 19.32 | 20.50              |                    |

| LTE B7-Full Power -Ant.4 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                       | 1               | LOW       | QPSK       | 22.77      | 22.57 | 22.17 | 23.50              |                    |
|                          |                 | MID       | QPSK       | 22.70      | 22.62 | 22.27 | 23.50              |                    |
|                          |                 | HIGH      | QPSK       | 22.58      | 22.22 | 22.28 | 23.50              |                    |
|                          | 36              | LOW       | QPSK       | 21.75      | 21.40 | 21.24 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 21.66      | 21.47 | 21.47 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.51      | 21.50 | 21.26 | 22.50              |                    |
|                          | 75              | LOW       | QPSK       | 21.54      | 21.54 | 21.48 | 22.50              |                    |
|                          | 15              | 1         | LOW        | Q16        | 22.05 | 21.94 | 21.72              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.19 | 22.02 | 21.93              | 22.50              |
| HIGH                     |                 |           | Q16        | 22.07      | 21.93 | 21.55 | 22.50              |                    |
| 36                       |                 | LOW       | Q16        | 20.62      | 20.29 | 20.42 | 21.50              |                    |
|                          |                 | MID       | Q16        | 20.82      | 20.47 | 20.32 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.57      | 20.30 | 20.15 | 21.50              |                    |
| 75                       |                 | LOW       | Q16        | 20.55      | 20.48 | 20.35 | 21.50              |                    |
| 15                       |                 | 1         | LOW        | 64QAM      | 21.30 | 20.81 | 20.46              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.29 | 20.89 | 20.94              | 21.50              |
|                          | HIGH            |           | 64QAM      | 20.98      | 20.67 | 20.58 | 21.50              |                    |
|                          | 36              | LOW       | 64QAM      | 19.48      | 19.39 | 19.38 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 19.81      | 19.63 | 19.14 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.71      | 19.32 | 19.27 | 20.50              |                    |
|                          | 75              | LOW       | 64QAM      | 19.62      | 19.50 | 19.25 | 20.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                          | 20              | 1         | LOW        | QPSK       | 22.66 | 22.44 | 22.18              | 23.50              |
| MID                      |                 |           | QPSK       | 22.73      | 22.55 | 22.33 | 23.50              |                    |
| HIGH                     |                 |           | QPSK       | 22.54      | 22.33 | 22.16 | 23.50              |                    |
| 50                       |                 | LOW       | QPSK       | 21.70      | 21.44 | 21.39 | 22.50              |                    |
|                          |                 | MID       | QPSK       | 21.70      | 21.49 | 21.39 | 22.50              |                    |
|                          |                 | HIGH      | QPSK       | 21.62      | 21.41 | 21.27 | 22.50              |                    |
| 100                      |                 | LOW       | QPSK       | 21.68      | 21.43 | 21.34 | 22.50              |                    |
| 20                       |                 | 1         | LOW        | Q16        | 22.15 | 21.92 | 21.61              | 22.50              |
|                          |                 |           | MID        | Q16        | 22.17 | 22.03 | 21.81              | 22.50              |
|                          | HIGH            |           | Q16        | 21.98      | 21.80 | 21.62 | 22.50              |                    |
|                          | 50              | LOW       | Q16        | 20.69      | 20.44 | 20.34 | 21.50              |                    |
|                          |                 | MID       | Q16        | 20.72      | 20.49 | 20.29 | 21.50              |                    |
|                          |                 | HIGH      | Q16        | 20.65      | 20.36 | 20.23 | 21.50              |                    |
|                          | 100             | LOW       | Q16        | 20.68      | 20.45 | 20.27 | 21.50              |                    |
|                          | 20              | 1         | LOW        | 64QAM      | 21.19 | 20.96 | 20.46              | 21.50              |
|                          |                 |           | MID        | 64QAM      | 21.24 | 20.94 | 20.88              | 21.50              |
| HIGH                     |                 |           | 64QAM      | 20.99      | 20.73 | 20.62 | 21.50              |                    |
| 50                       |                 | LOW       | 64QAM      | 19.61      | 19.40 | 19.47 | 20.50              |                    |
|                          |                 | MID       | 64QAM      | 19.68      | 19.63 | 19.26 | 20.50              |                    |
|                          |                 | HIGH      | 64QAM      | 19.64      | 19.27 | 19.33 | 20.50              |                    |
| 100                      |                 | LOW       | 64QAM      | 19.76      | 19.47 | 19.31 | 20.50              |                    |

| LTE B7-State1&3&5 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                        | 1               | LOW       | QPSK       | 17.93      | 17.79 | 17.69 | 19.50              |                    |
|                          |                 | MID       | QPSK       | 18.08      | 17.74 | 17.71 | 19.50              |                    |
|                          |                 | HIGH      | QPSK       | 18.07      | 17.74 | 17.64 | 19.50              |                    |
|                          | 12              | LOW       | QPSK       | 17.95      | 17.83 | 17.70 | 19.50              |                    |
|                          |                 | MID       | QPSK       | 17.98      | 17.87 | 17.61 | 19.50              |                    |
|                          |                 | HIGH      | QPSK       | 17.99      | 17.77 | 17.58 | 19.50              |                    |
|                          | 25              | LOW       | QPSK       | 18.01      | 17.67 | 17.67 | 19.50              |                    |
|                          | 5               | 1         | LOW        | Q16        | 18.34 | 18.00 | 17.83              | 19.50              |
|                          |                 |           | MID        | Q16        | 18.49 | 18.00 | 17.85              | 19.50              |
| HIGH                     |                 |           | Q16        | 18.48      | 17.95 | 17.79 | 19.50              |                    |
| 12                       |                 | LOW       | Q16        | 18.13      | 17.86 | 17.79 | 19.50              |                    |
|                          |                 | MID       | Q16        | 18.15      | 17.83 | 17.75 | 19.50              |                    |
|                          |                 | HIGH      | Q16        | 18.15      | 17.81 | 17.68 | 19.50              |                    |
| 25                       |                 | LOW       | Q16        | 18.08      | 17.77 | 17.71 | 19.50              |                    |
| 5                        |                 | 1         | LOW        | 64QAM      | 18.29 | 18.09 | 17.77              | 19.50              |
|                          |                 |           | MID        | 64QAM      | 18.36 | 18.15 | 17.76              | 19.50              |
|                          | HIGH            |           | 64QAM      | 18.40      | 18.02 | 17.70 | 19.50              |                    |
|                          | 12              | LOW       | 64QAM      | 18.25      | 17.96 | 17.68 | 19.50              |                    |
|                          |                 | MID       | 64QAM      | 18.08      | 17.91 | 17.86 | 19.50              |                    |
|                          |                 | HIGH      | 64QAM      | 18.30      | 17.93 | 17.57 | 19.50              |                    |
|                          | 25              | LOW       | 64QAM      | 17.94      | 17.67 | 17.77 | 19.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                          | 10              | 1         | LOW        | QPSK       | 17.81 | 17.87 | 17.75              | 19.50              |
| MID                      |                 |           | QPSK       | 17.98      | 18.14 | 17.71 | 19.50              |                    |
| HIGH                     |                 |           | QPSK       | 17.77      | 17.88 | 17.98 | 19.50              |                    |
| 25                       |                 | LOW       | QPSK       | 17.98      | 17.81 | 17.73 | 19.50              |                    |
|                          |                 | MID       | QPSK       | 18.08      | 18.00 | 17.84 | 19.50              |                    |
|                          |                 | HIGH      | QPSK       | 18.07      | 17.88 | 17.72 | 19.50              |                    |
| 50                       | LOW             | QPSK      | 18.10      | 17.91      | 17.59 | 19.50 |                    |                    |
| 10                       | 1               | LOW       | Q16        | 18.25      | 18.19 | 18.18 | 19.50              |                    |
|                          |                 | MID       | Q16        | 18.44      | 18.39 | 18.16 | 19.50              |                    |
|                          |                 | HIGH      | Q16        | 18.20      | 18.32 | 17.98 | 19.50              |                    |
|                          | 25              | LOW       | Q16        | 18.04      | 17.90 | 17.68 | 19.50              |                    |
|                          |                 | MID       | Q16        | 18.15      | 18.02 | 17.59 | 19.50              |                    |
|                          |                 | HIGH      | Q16        | 17.91      | 17.81 | 17.68 | 19.50              |                    |
| 50                       | LOW             | Q16       | 17.97      | 17.82      | 17.60 | 19.50 |                    |                    |
| 10                       | 1               | LOW       | 64QAM      | 18.06      | 18.29 | 18.20 | 19.50              |                    |
|                          |                 | MID       | 64QAM      | 18.58      | 18.73 | 18.04 | 19.50              |                    |
|                          |                 | HIGH      | 64QAM      | 18.12      | 18.23 | 17.79 | 19.50              |                    |
|                          | 25              | LOW       | 64QAM      | 17.99      | 17.98 | 17.74 | 19.50              |                    |
|                          |                 | MID       | 64QAM      | 17.90      | 17.96 | 17.79 | 19.50              |                    |
|                          |                 | HIGH      | 64QAM      | 17.79      | 17.64 | 17.54 | 19.50              |                    |
| 50                       | LOW             | 64QAM     | 18.25      | 17.73      | 17.91 | 19.50 |                    |                    |

| LTE B7-State1&3&5 -Ant.4 |                 |           |            |            |       |       |                    |                    |
|--------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)          | RB Size         | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                       | 1               | LOW       | QPSK       | 17.91      | 17.74 | 17.63 | 19.50              |                    |
|                          |                 | MID       | QPSK       | 17.99      | 18.06 | 17.61 | 19.50              |                    |
|                          |                 | HIGH      | QPSK       | 17.85      | 17.84 | 17.61 | 19.50              |                    |
|                          | 36              | LOW       | QPSK       | 17.89      | 17.95 | 17.81 | 19.50              |                    |
|                          |                 | MID       | QPSK       | 18.01      | 17.92 | 17.88 | 19.50              |                    |
|                          |                 | HIGH      | QPSK       | 18.08      | 17.69 | 17.54 | 19.50              |                    |
|                          | 75              | LOW       | QPSK       | 17.92      | 17.82 | 17.59 | 19.50              |                    |
|                          | 15              | 1         | LOW        | Q16        | 18.39 | 18.15 | 18.01              | 19.50              |
|                          |                 |           | MID        | Q16        | 18.41 | 18.50 | 18.09              | 19.50              |
| HIGH                     |                 |           | Q16        | 18.20      | 18.25 | 17.85 | 19.50              |                    |
| 36                       |                 | LOW       | Q16        | 17.85      | 17.85 | 17.63 | 19.50              |                    |
|                          |                 | MID       | Q16        | 18.03      | 17.87 | 17.62 | 19.50              |                    |
|                          |                 | HIGH      | Q16        | 17.92      | 17.73 | 17.64 | 19.50              |                    |
| 75                       |                 | LOW       | Q16        | 17.94      | 17.94 | 17.69 | 19.50              |                    |
| 15                       |                 | 1         | LOW        | 64QAM      | 18.05 | 18.34 | 18.19              | 19.50              |
|                          |                 |           | MID        | 64QAM      | 18.47 | 18.74 | 18.06              | 19.50              |
|                          | HIGH            |           | 64QAM      | 18.20      | 18.24 | 17.96 | 19.50              |                    |
|                          | 36              | LOW       | 64QAM      | 17.99      | 18.00 | 17.98 | 19.50              |                    |
|                          |                 | MID       | 64QAM      | 17.92      | 18.13 | 17.65 | 19.50              |                    |
|                          |                 | HIGH      | 64QAM      | 17.79      | 17.78 | 17.70 | 19.50              |                    |
|                          | 75              | LOW       | 64QAM      | 18.09      | 17.81 | 17.78 | 19.50              |                    |
|                          | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                          | 20              | 1         | LOW        | QPSK       | 17.87 | 17.81 | 17.61              | 19.50              |
| MID                      |                 |           | QPSK       | 18.01      | 18.04 | 17.73 | 19.50              |                    |
| HIGH                     |                 |           | QPSK       | 17.71      | 17.83 | 17.57 | 19.50              |                    |
| 50                       |                 | LOW       | QPSK       | 17.97      | 17.80 | 17.76 | 19.50              |                    |
|                          |                 | MID       | QPSK       | 17.86      | 18.00 | 17.77 | 19.50              |                    |
|                          |                 | HIGH      | QPSK       | 17.96      | 17.76 | 17.66 | 19.50              |                    |
| 100                      |                 | LOW       | QPSK       | 17.97      | 17.80 | 17.74 | 19.50              |                    |
| 20                       |                 | 1         | LOW        | Q16        | 18.34 | 18.23 | 18.06              | 19.50              |
|                          |                 |           | MID        | Q16        | 18.47 | 18.50 | 18.20              | 19.50              |
|                          | HIGH            |           | Q16        | 18.18      | 18.25 | 17.99 | 19.50              |                    |
|                          | 50              | LOW       | Q16        | 18.00      | 17.87 | 17.77 | 19.50              |                    |
|                          |                 | MID       | Q16        | 18.01      | 17.90 | 17.73 | 19.50              |                    |
|                          |                 | HIGH      | Q16        | 17.99      | 17.82 | 17.65 | 19.50              |                    |
|                          | 100             | LOW       | Q16        | 18.00      | 17.84 | 17.72 | 19.50              |                    |
|                          | 20              | 1         | LOW        | 64QAM      | 18.19 | 18.36 | 18.17              | 19.50              |
|                          |                 |           | MID        | 64QAM      | 18.43 | 18.59 | 18.18              | 19.50              |
| HIGH                     |                 |           | 64QAM      | 18.14      | 18.28 | 17.92 | 19.50              |                    |
| 50                       |                 | LOW       | 64QAM      | 17.96      | 17.91 | 17.85 | 19.50              |                    |
|                          |                 | MID       | 64QAM      | 18.05      | 18.02 | 17.74 | 19.50              |                    |
|                          |                 | HIGH      | 64QAM      | 17.90      | 17.79 | 17.56 | 19.50              |                    |
| 100                      |                 | LOW       | 64QAM      | 18.12      | 17.81 | 17.85 | 19.50              |                    |

| LTE B7-State2&4&6-Ant.4 |                 |           |            |            |       |       |                    |                    |
|-------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)         | RB Size         | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                       | 1               | LOW       | QPSK       | 15.06      | 14.95 | 14.83 | 16.50              |                    |
|                         |                 | MID       | QPSK       | 15.14      | 14.99 | 14.80 | 16.50              |                    |
|                         |                 | HIGH      | QPSK       | 15.10      | 14.92 | 14.80 | 16.50              |                    |
|                         | 12              | LOW       | QPSK       | 15.09      | 14.90 | 14.81 | 16.50              |                    |
|                         |                 | MID       | QPSK       | 15.11      | 14.89 | 14.74 | 16.50              |                    |
|                         |                 | HIGH      | QPSK       | 15.13      | 14.86 | 14.70 | 16.50              |                    |
|                         | 25              | LOW       | QPSK       | 15.11      | 14.88 | 14.77 | 16.50              |                    |
|                         | 5               | 1         | LOW        | Q16        | 15.21 | 15.11 | 15.26              | 16.50              |
|                         |                 |           | MID        | Q16        | 15.27 | 15.09 | 15.24              | 16.50              |
| HIGH                    |                 |           | Q16        | 15.23      | 15.10 | 15.22 | 16.50              |                    |
| 12                      |                 | LOW       | Q16        | 15.13      | 14.97 | 14.91 | 16.50              |                    |
|                         |                 | MID       | Q16        | 15.13      | 14.97 | 14.83 | 16.50              |                    |
|                         |                 | HIGH      | Q16        | 15.18      | 14.96 | 14.82 | 16.50              |                    |
| 25                      |                 | LOW       | Q16        | 15.08      | 14.94 | 14.84 | 16.50              |                    |
| 5                       |                 | 1         | LOW        | 64QAM      | 15.07 | 15.15 | 15.40              | 16.50              |
|                         |                 |           | MID        | 64QAM      | 15.29 | 15.22 | 15.27              | 16.50              |
|                         | HIGH            |           | 64QAM      | 15.14      | 15.15 | 15.31 | 16.50              |                    |
|                         | 12              | LOW       | 64QAM      | 15.12      | 14.82 | 14.89 | 16.50              |                    |
|                         |                 | MID       | 64QAM      | 14.98      | 14.88 | 14.80 | 16.50              |                    |
|                         |                 | HIGH      | 64QAM      | 15.30      | 15.03 | 14.93 | 16.50              |                    |
|                         | 25              | LOW       | 64QAM      | 15.19      | 14.96 | 14.93 | 16.50              |                    |
|                         | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                         | 10              | 1         | LOW        | QPSK       | 14.96 | 14.94 | 14.73              | 16.50              |
| MID                     |                 |           | QPSK       | 15.07      | 15.13 | 14.85 | 16.50              |                    |
| HIGH                    |                 |           | QPSK       | 14.91      | 14.87 | 14.68 | 16.50              |                    |
| 25                      |                 | LOW       | QPSK       | 14.87      | 14.81 | 14.93 | 16.50              |                    |
|                         |                 | MID       | QPSK       | 15.09      | 14.92 | 14.70 | 16.50              |                    |
|                         |                 | HIGH      | QPSK       | 14.95      | 14.86 | 14.92 | 16.50              |                    |
| 50                      |                 | LOW       | QPSK       | 15.13      | 14.92 | 14.78 | 16.50              |                    |
| 10                      |                 | 1         | LOW        | Q16        | 15.41 | 15.38 | 15.18              | 16.50              |
|                         |                 |           | MID        | Q16        | 15.57 | 15.55 | 15.25              | 16.50              |
|                         | HIGH            |           | Q16        | 15.35      | 15.37 | 14.96 | 16.50              |                    |
|                         | 25              | LOW       | Q16        | 15.11      | 14.86 | 14.91 | 16.50              |                    |
|                         |                 | MID       | Q16        | 15.11      | 14.84 | 14.73 | 16.50              |                    |
|                         |                 | HIGH      | Q16        | 15.14      | 14.91 | 14.77 | 16.50              |                    |
|                         | 50              | LOW       | Q16        | 15.18      | 14.94 | 14.88 | 16.50              |                    |
|                         | 10              | 1         | LOW        | 64QAM      | 15.46 | 15.41 | 15.05              | 16.50              |
|                         |                 |           | MID        | 64QAM      | 15.52 | 15.44 | 15.38              | 16.50              |
| HIGH                    |                 |           | 64QAM      | 15.30      | 15.37 | 15.07 | 16.50              |                    |
| 25                      |                 | LOW       | 64QAM      | 15.22      | 14.67 | 14.70 | 16.50              |                    |
|                         |                 | MID       | 64QAM      | 14.97      | 14.87 | 14.80 | 16.50              |                    |
|                         |                 | HIGH      | 64QAM      | 15.00      | 14.91 | 14.61 | 16.50              |                    |
| 50                      |                 | LOW       | 64QAM      | 14.97      | 14.97 | 14.87 | 16.50              |                    |

| LTE B7-State2&4&6-Ant.4 |                 |           |            |            |       |       |                    |                    |
|-------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)         | RB Size         | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                      | 1               | LOW       | QPSK       | 15.02      | 14.89 | 14.75 | 16.50              |                    |
|                         |                 | MID       | QPSK       | 15.22      | 14.98 | 14.90 | 16.50              |                    |
|                         |                 | HIGH      | QPSK       | 14.82      | 14.76 | 14.71 | 16.50              |                    |
|                         | 36              | LOW       | QPSK       | 15.11      | 14.84 | 14.88 | 16.50              |                    |
|                         |                 | MID       | QPSK       | 15.07      | 14.98 | 14.93 | 16.50              |                    |
|                         |                 | HIGH      | QPSK       | 15.19      | 14.75 | 14.94 | 16.50              |                    |
|                         | 75              | LOW       | QPSK       | 15.22      | 14.86 | 14.95 | 16.50              |                    |
|                         | 15              | 1         | LOW        | Q16        | 15.50 | 15.34 | 15.04              | 16.50              |
|                         |                 |           | MID        | Q16        | 15.51 | 15.25 | 15.38              | 16.50              |
| HIGH                    |                 |           | Q16        | 15.28      | 15.19 | 15.06 | 16.50              |                    |
| 36                      |                 | LOW       | Q16        | 15.13      | 14.93 | 14.69 | 16.50              |                    |
|                         |                 | MID       | Q16        | 15.21      | 15.04 | 14.87 | 16.50              |                    |
|                         |                 | HIGH      | Q16        | 15.14      | 14.79 | 14.76 | 16.50              |                    |
| 75                      |                 | LOW       | Q16        | 15.11      | 14.85 | 14.88 | 16.50              |                    |
| 15                      |                 | 1         | LOW        | 64QAM      | 15.63 | 15.46 | 15.08              | 16.50              |
|                         |                 |           | MID        | 64QAM      | 15.51 | 15.40 | 15.53              | 16.50              |
|                         | HIGH            |           | 64QAM      | 15.53      | 15.17 | 15.04 | 16.50              |                    |
|                         | 36              | LOW       | 64QAM      | 15.16      | 14.86 | 14.86 | 16.50              |                    |
|                         |                 | MID       | 64QAM      | 15.16      | 15.14 | 15.03 | 16.50              |                    |
|                         |                 | HIGH      | 64QAM      | 15.02      | 14.82 | 14.60 | 16.50              |                    |
|                         | 75              | LOW       | 64QAM      | 14.98      | 14.91 | 14.85 | 16.50              |                    |
|                         | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                         | 20              | 1         | LOW        | QPSK       | 14.96 | 14.88 | 14.70              | 16.50              |
| MID                     |                 |           | QPSK       | 15.00      | 15.07 | 14.83 | 16.50              |                    |
| HIGH                    |                 |           | QPSK       | 14.92      | 14.83 | 14.66 | 16.50              |                    |
| 50                      |                 | LOW       | QPSK       | 15.02      | 14.95 | 14.87 | 16.50              |                    |
|                         |                 | MID       | QPSK       | 14.95      | 15.10 | 14.85 | 16.50              |                    |
|                         |                 | HIGH      | QPSK       | 15.08      | 14.90 | 14.80 | 16.50              |                    |
| 100                     |                 | LOW       | QPSK       | 14.85      | 14.94 | 15.07 | 16.50              |                    |
| 20                      |                 | 1         | LOW        | Q16        | 15.45 | 15.38 | 15.13              | 16.50              |
|                         |                 |           | MID        | Q16        | 15.56 | 15.34 | 15.28              | 16.50              |
|                         | HIGH            |           | Q16        | 15.40      | 15.30 | 15.08 | 16.50              |                    |
|                         | 50              | LOW       | Q16        | 15.10      | 14.91 | 14.84 | 16.50              |                    |
|                         |                 | MID       | Q16        | 15.13      | 14.99 | 14.84 | 16.50              |                    |
|                         |                 | HIGH      | Q16        | 15.09      | 14.90 | 14.77 | 16.50              |                    |
|                         | 100             | LOW       | Q16        | 15.09      | 14.92 | 14.83 | 16.50              |                    |
|                         | 20              | 1         | LOW        | 64QAM      | 15.49 | 15.44 | 15.20              | 16.50              |
|                         |                 |           | MID        | 64QAM      | 15.65 | 15.47 | 15.43              | 16.50              |
| HIGH                    |                 |           | 64QAM      | 15.44      | 15.23 | 15.16 | 16.50              |                    |
| 50                      |                 | LOW       | 64QAM      | 15.08      | 14.79 | 14.72 | 16.50              |                    |
|                         |                 | MID       | 64QAM      | 15.01      | 15.01 | 14.95 | 16.50              |                    |
|                         |                 | HIGH      | 64QAM      | 15.04      | 14.96 | 14.63 | 16.50              |                    |
| 100                     |                 | LOW       | 64QAM      | 14.94      | 14.88 | 14.97 | 16.50              |                    |

## 8.3.4 LTE Band7 Output Power

| LTE B7-Full Power -Ant.3 |           |           |            |            |       |       |                    |                    |
|--------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                | RB Size   | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                        | 1         | LOW       | QPSK       | 23.45      | 23.30 | 23.50 | 23.50              |                    |
|                          |           | MID       | QPSK       | 23.44      | 23.31 | 23.37 | 23.50              |                    |
|                          |           | HIGH      | QPSK       | 23.40      | 23.47 | 23.42 | 23.50              |                    |
|                          | 12        | LOW       | QPSK       | 22.37      | 22.44 | 22.43 | 22.50              |                    |
|                          |           | MID       | QPSK       | 22.46      | 22.37 | 22.42 | 22.50              |                    |
|                          |           | HIGH      | QPSK       | 22.43      | 22.33 | 22.33 | 22.50              |                    |
|                          | 25        | LOW       | QPSK       | 22.41      | 22.40 | 22.32 | 22.50              |                    |
|                          | 5         | 1         | LOW        | Q16        | 22.30 | 22.39 | 22.44              | 22.50              |
|                          |           |           | MID        | Q16        | 22.44 | 22.38 | 22.34              | 22.50              |
| HIGH                     |           |           | Q16        | 22.50      | 22.41 | 22.35 | 22.50              |                    |
| 12                       |           | LOW       | Q16        | 21.36      | 21.37 | 21.41 | 21.50              |                    |
|                          |           | MID       | Q16        | 21.32      | 21.36 | 21.43 | 21.50              |                    |
|                          |           | HIGH      | Q16        | 21.33      | 21.29 | 21.24 | 21.50              |                    |
| 25                       |           | LOW       | Q16        | 21.33      | 21.38 | 21.29 | 21.50              |                    |
| 5                        |           | 1         | LOW        | 64QAM      | 21.41 | 21.44 | 21.27              | 21.50              |
|                          |           |           | MID        | 64QAM      | 21.47 | 21.41 | 21.46              | 21.50              |
|                          | HIGH      |           | 64QAM      | 21.28      | 21.36 | 21.38 | 21.50              |                    |
|                          | 12        | LOW       | 64QAM      | 20.43      | 20.43 | 20.43 | 20.50              |                    |
|                          |           | MID       | 64QAM      | 20.23      | 20.43 | 20.31 | 20.50              |                    |
|                          |           | HIGH      | 64QAM      | 20.44      | 20.45 | 20.39 | 20.50              |                    |
|                          | 25        | LOW       | 64QAM      | 20.44      | 20.41 | 20.45 | 20.50              |                    |
|                          | Bandwidth | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                          | 10        | 1         | LOW        | QPSK       | 23.40 | 23.48 | 23.40              | 23.50              |
| MID                      |           |           | QPSK       | 23.38      | 23.27 | 23.40 | 23.50              |                    |
| HIGH                     |           |           | QPSK       | 23.48      | 23.28 | 23.47 | 23.50              |                    |
| 25                       |           | LOW       | QPSK       | 22.42      | 22.41 | 22.39 | 22.50              |                    |
|                          |           | MID       | QPSK       | 22.36      | 22.46 | 22.42 | 22.50              |                    |
|                          |           | HIGH      | QPSK       | 22.34      | 22.33 | 22.35 | 22.50              |                    |
| 50                       |           | LOW       | QPSK       | 22.37      | 22.47 | 22.45 | 22.50              |                    |
| 10                       |           | 1         | LOW        | Q16        | 22.33 | 22.45 | 22.50              | 22.50              |
|                          |           |           | MID        | Q16        | 22.38 | 22.49 | 22.42              | 22.50              |
|                          | HIGH      |           | Q16        | 22.44      | 22.39 | 22.37 | 22.50              |                    |
|                          | 25        | LOW       | Q16        | 21.35      | 21.34 | 21.28 | 21.50              |                    |
|                          |           | MID       | Q16        | 21.33      | 21.48 | 21.47 | 21.50              |                    |
|                          |           | HIGH      | Q16        | 21.32      | 21.34 | 21.24 | 21.50              |                    |
|                          | 50        | LOW       | Q16        | 21.32      | 21.43 | 21.42 | 21.50              |                    |
|                          | 10        | 1         | LOW        | 64QAM      | 21.30 | 21.43 | 21.28              | 21.50              |
|                          |           |           | MID        | 64QAM      | 21.42 | 21.31 | 21.45              | 21.50              |
| HIGH                     |           |           | 64QAM      | 21.34      | 21.26 | 21.39 | 21.50              |                    |
| 25                       |           | LOW       | 64QAM      | 20.40      | 20.44 | 20.38 | 20.50              |                    |
|                          |           | MID       | 64QAM      | 20.24      | 20.50 | 20.37 | 20.50              |                    |
|                          |           | HIGH      | 64QAM      | 20.44      | 20.46 | 20.30 | 20.50              |                    |
| 50                       |           | LOW       | 64QAM      | 20.47      | 20.47 | 20.45 | 20.50              |                    |



| LTE B7-Full Power -Ant.3 |           |           |            |            |       |       |                    |                    |
|--------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                | RB Size   | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                       | 1         | LOW       | QPSK       | 23.40      | 23.33 | 23.42 | 23.50              |                    |
|                          |           | MID       | QPSK       | 23.41      | 23.34 | 23.38 | 23.50              |                    |
|                          |           | HIGH      | QPSK       | 23.33      | 23.37 | 23.33 | 23.50              |                    |
|                          | 36        | LOW       | QPSK       | 22.39      | 22.50 | 22.40 | 22.50              |                    |
|                          |           | MID       | QPSK       | 22.31      | 22.37 | 22.36 | 22.50              |                    |
|                          |           | HIGH      | QPSK       | 22.44      | 22.49 | 22.44 | 22.50              |                    |
|                          | 75        | LOW       | QPSK       | 22.32      | 22.47 | 22.42 | 22.50              |                    |
|                          | 15        | 1         | LOW        | Q16        | 22.31 | 22.49 | 22.39              | 22.50              |
|                          |           |           | MID        | Q16        | 22.37 | 22.33 | 22.41              | 22.50              |
| HIGH                     |           |           | Q16        | 22.42      | 22.40 | 22.34 | 22.50              |                    |
| 36                       |           | LOW       | Q16        | 21.33      | 21.41 | 21.47 | 21.50              |                    |
|                          |           | MID       | Q16        | 21.29      | 21.44 | 21.33 | 21.50              |                    |
|                          |           | HIGH      | Q16        | 21.31      | 21.29 | 21.40 | 21.50              |                    |
| 75                       |           | LOW       | Q16        | 21.30      | 21.34 | 21.45 | 21.50              |                    |
| 15                       |           | 1         | LOW        | 64QAM      | 21.35 | 21.35 | 21.46              | 21.50              |
|                          |           |           | MID        | 64QAM      | 21.39 | 21.38 | 21.49              | 21.50              |
|                          | HIGH      |           | 64QAM      | 21.41      | 21.41 | 21.40 | 21.50              |                    |
|                          | 36        | LOW       | 64QAM      | 20.41      | 20.40 | 20.38 | 20.50              |                    |
|                          |           | MID       | 64QAM      | 20.26      | 20.43 | 20.43 | 20.50              |                    |
|                          |           | HIGH      | 64QAM      | 20.42      | 20.41 | 20.45 | 20.50              |                    |
|                          | 75        | LOW       | 64QAM      | 20.48      | 20.38 | 20.40 | 20.50              |                    |
|                          | Bandwidth | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                          | 20        | 1         | LOW        | QPSK       | 23.44 | 23.40 | 23.41              | 23.50              |
| MID                      |           |           | QPSK       | 23.39      | 23.33 | 23.38 | 23.50              |                    |
| HIGH                     |           |           | QPSK       | 23.43      | 23.38 | 23.42 | 23.50              |                    |
| 50                       |           | LOW       | QPSK       | 22.33      | 22.42 | 22.43 | 22.50              |                    |
|                          |           | MID       | QPSK       | 22.36      | 22.44 | 22.43 | 22.50              |                    |
|                          |           | HIGH      | QPSK       | 22.36      | 22.43 | 22.37 | 22.50              |                    |
| 100                      |           | LOW       | QPSK       | 22.35      | 22.45 | 22.39 | 22.50              |                    |
| 20                       |           | 1         | LOW        | Q16        | 22.31 | 22.48 | 22.47              | 22.50              |
|                          |           |           | MID        | Q16        | 22.46 | 22.43 | 22.43              | 22.50              |
|                          | HIGH      |           | Q16        | 22.49      | 22.43 | 22.31 | 22.50              |                    |
|                          | 50        | LOW       | Q16        | 21.31      | 21.43 | 21.37 | 21.50              |                    |
|                          |           | MID       | Q16        | 21.39      | 21.45 | 21.38 | 21.50              |                    |
|                          |           | HIGH      | Q16        | 21.35      | 21.38 | 21.31 | 21.50              |                    |
|                          | 100       | LOW       | Q16        | 21.34      | 21.44 | 21.36 | 21.50              |                    |
|                          | 20        | 1         | LOW        | 64QAM      | 21.37 | 21.35 | 21.37              | 21.50              |
|                          |           |           | MID        | 64QAM      | 21.37 | 21.31 | 21.41              | 21.50              |
| HIGH                     |           |           | 64QAM      | 21.31      | 21.36 | 21.40 | 21.50              |                    |
| 50                       |           | LOW       | 64QAM      | 20.45      | 20.45 | 20.47 | 20.50              |                    |
|                          |           | MID       | 64QAM      | 20.31      | 20.48 | 20.40 | 20.50              |                    |
|                          |           | HIGH      | 64QAM      | 20.48      | 20.49 | 20.38 | 20.50              |                    |
| 100                      |           | LOW       | 64QAM      | 20.46      | 20.46 | 20.36 | 20.50              |                    |

| LTE B7-State1&3&5 -Ant.3 |           |           |            |            |       |       |                    |                    |
|--------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                | RB Size   | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                        | 1         | LOW       | QPSK       | 18.47      | 18.76 | 18.68 | 19.00              |                    |
|                          |           | MID       | QPSK       | 18.92      | 18.98 | 18.76 | 19.00              |                    |
|                          |           | HIGH      | QPSK       | 18.90      | 18.67 | 18.64 | 19.00              |                    |
|                          | 12        | LOW       | QPSK       | 18.84      | 18.84 | 18.85 | 19.00              |                    |
|                          |           | MID       | QPSK       | 18.88      | 18.90 | 18.75 | 19.00              |                    |
|                          |           | HIGH      | QPSK       | 18.88      | 18.88 | 18.80 | 19.00              |                    |
|                          | 25        | LOW       | QPSK       | 18.91      | 18.84 | 18.68 | 19.00              |                    |
|                          | 5         | 1         | LOW        | Q16        | 18.82 | 18.81 | 18.90              | 19.00              |
|                          |           |           | MID        | Q16        | 18.81 | 18.84 | 18.90              | 19.00              |
| HIGH                     |           |           | Q16        | 18.77      | 18.82 | 18.81 | 19.00              |                    |
| 12                       |           | LOW       | Q16        | 18.83      | 18.86 | 18.86 | 19.00              |                    |
|                          |           | MID       | Q16        | 18.97      | 18.88 | 18.79 | 19.00              |                    |
|                          |           | HIGH      | Q16        | 18.87      | 18.72 | 18.69 | 19.00              |                    |
| 25                       |           | LOW       | Q16        | 18.92      | 18.71 | 18.68 | 19.00              |                    |
| 5                        |           | 1         | LOW        | 64QAM      | 18.94 | 18.81 | 18.88              | 19.00              |
|                          |           |           | MID        | 64QAM      | 18.81 | 18.90 | 18.95              | 19.00              |
|                          | HIGH      |           | 64QAM      | 18.91      | 18.87 | 18.79 | 19.00              |                    |
|                          | 12        | LOW       | 64QAM      | 18.93      | 18.87 | 18.71 | 19.00              |                    |
|                          |           | MID       | 64QAM      | 18.97      | 18.93 | 18.70 | 19.00              |                    |
|                          |           | HIGH      | 64QAM      | 18.95      | 18.82 | 18.76 | 19.00              |                    |
|                          | 25        | LOW       | 64QAM      | 18.85      | 18.81 | 18.90 | 19.00              |                    |
|                          | Bandwidth | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                          | 10        | 1         | LOW        | QPSK       | 18.59 | 18.71 | 18.69              | 19.00              |
| MID                      |           |           | QPSK       | 18.97      | 18.93 | 18.71 | 19.00              |                    |
| HIGH                     |           |           | QPSK       | 18.89      | 18.72 | 18.60 | 19.00              |                    |
| 25                       |           | LOW       | QPSK       | 18.99      | 18.71 | 18.88 | 19.00              |                    |
|                          |           | MID       | QPSK       | 18.88      | 18.91 | 18.80 | 19.00              |                    |
|                          |           | HIGH      | QPSK       | 19.00      | 18.84 | 18.74 | 19.00              |                    |
| 50                       | LOW       | QPSK      | 18.93      | 18.87      | 18.75 | 19.00 |                    |                    |
| 10                       | 1         | LOW       | Q16        | 18.79      | 18.88 | 18.81 | 19.00              |                    |
|                          |           | MID       | Q16        | 18.93      | 18.76 | 18.96 | 19.00              |                    |
|                          |           | HIGH      | Q16        | 18.84      | 18.80 | 18.96 | 19.00              |                    |
|                          | 25        | LOW       | Q16        | 18.88      | 18.85 | 18.73 | 19.00              |                    |
|                          |           | MID       | Q16        | 18.92      | 18.94 | 18.78 | 19.00              |                    |
|                          |           | HIGH      | Q16        | 18.91      | 18.83 | 18.72 | 19.00              |                    |
|                          | 50        | LOW       | Q16        | 18.93      | 18.80 | 18.74 | 19.00              |                    |
|                          | 10        | 1         | LOW        | 64QAM      | 18.95 | 18.85 | 18.91              | 19.00              |
|                          |           |           | MID        | 64QAM      | 18.77 | 18.97 | 18.91              | 19.00              |
| HIGH                     |           |           | 64QAM      | 18.88      | 18.99 | 18.90 | 19.00              |                    |
| 25                       |           | LOW       | 64QAM      | 18.89      | 18.75 | 18.66 | 19.00              |                    |
|                          |           | MID       | 64QAM      | 18.95      | 18.95 | 18.68 | 19.00              |                    |
|                          |           | HIGH      | 64QAM      | 18.90      | 18.90 | 18.84 | 19.00              |                    |
| 50                       |           | LOW       | 64QAM      | 18.81      | 18.87 | 18.84 | 19.00              |                    |

| LTE B7-State1&3 -Ant.3 |           |           |            |            |       |       |                    |                    |
|------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth              | RB Size   | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                     | 1         | LOW       | QPSK       | 18.48      | 18.84 | 18.86 | 19.00              |                    |
|                        |           | MID       | QPSK       | 18.93      | 18.83 | 18.70 | 19.00              |                    |
|                        |           | HIGH      | QPSK       | 18.87      | 18.72 | 18.65 | 19.00              |                    |
|                        | 36        | LOW       | QPSK       | 19.00      | 18.78 | 18.75 | 19.00              |                    |
|                        |           | MID       | QPSK       | 18.82      | 18.78 | 18.70 | 19.00              |                    |
|                        |           | HIGH      | QPSK       | 18.86      | 18.78 | 18.73 | 19.00              |                    |
|                        | 75        | LOW       | QPSK       | 18.85      | 18.74 | 18.80 | 19.00              |                    |
|                        | 15        | 1         | LOW        | Q16        | 18.95 | 18.85 | 18.89              | 19.00              |
|                        |           |           | MID        | Q16        | 18.75 | 18.90 | 18.89              | 19.00              |
| HIGH                   |           |           | Q16        | 18.88      | 18.75 | 18.85 | 19.00              |                    |
| 36                     |           | LOW       | Q16        | 18.83      | 18.77 | 18.84 | 19.00              |                    |
|                        |           | MID       | Q16        | 18.96      | 18.90 | 18.64 | 19.00              |                    |
|                        |           | HIGH      | Q16        | 18.99      | 18.72 | 18.68 | 19.00              |                    |
| 75                     |           | LOW       | Q16        | 18.85      | 18.71 | 18.65 | 19.00              |                    |
| 15                     |           | 1         | LOW        | 64QAM      | 18.91 | 18.92 | 18.96              | 19.00              |
|                        |           |           | MID        | 64QAM      | 18.68 | 18.90 | 18.90              | 19.00              |
|                        | HIGH      |           | 64QAM      | 18.89      | 18.90 | 18.77 | 19.00              |                    |
|                        | 36        | LOW       | 64QAM      | 18.97      | 18.82 | 18.67 | 19.00              |                    |
|                        |           | MID       | 64QAM      | 18.93      | 18.91 | 18.70 | 19.00              |                    |
|                        |           | HIGH      | 64QAM      | 18.93      | 18.85 | 18.75 | 19.00              |                    |
|                        | 75        | LOW       | 64QAM      | 18.97      | 18.77 | 18.94 | 19.00              |                    |
|                        | Bandwidth | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                        | 20        | 1         | LOW        | QPSK       | 18.55 | 18.76 | 18.76              | 19.00              |
| MID                    |           |           | QPSK       | 18.93      | 18.93 | 18.78 | 19.00              |                    |
| HIGH                   |           |           | QPSK       | 18.80      | 18.71 | 18.64 | 19.00              |                    |
| 50                     |           | LOW       | QPSK       | 18.90      | 18.80 | 18.79 | 19.00              |                    |
|                        |           | MID       | QPSK       | 18.88      | 18.82 | 18.80 | 19.00              |                    |
|                        |           | HIGH      | QPSK       | 18.87      | 18.91 | 18.73 | 19.00              |                    |
| 100                    | LOW       | QPSK      | 18.86      | 18.79      | 18.74 | 19.00 |                    |                    |
| 20                     | 1         | LOW       | Q16        | 18.87      | 18.90 | 18.86 | 19.00              |                    |
|                        |           | MID       | Q16        | 18.83      | 18.86 | 19.00 | 19.00              |                    |
|                        |           | HIGH      | Q16        | 18.85      | 18.83 | 18.87 | 19.00              |                    |
|                        | 50        | LOW       | Q16        | 18.92      | 18.80 | 18.77 | 19.00              |                    |
|                        |           | MID       | Q16        | 18.98      | 18.87 | 18.74 | 19.00              |                    |
|                        |           | HIGH      | Q16        | 18.95      | 18.80 | 18.70 | 19.00              |                    |
| 100                    | LOW       | Q16       | 18.94      | 18.80      | 18.74 | 19.00 |                    |                    |
| 20                     | 1         | LOW       | 64QAM      | 18.93      | 18.91 | 18.93 | 19.00              |                    |
|                        |           | MID       | 64QAM      | 18.76      | 18.95 | 18.99 | 19.00              |                    |
|                        |           | HIGH      | 64QAM      | 18.97      | 18.93 | 18.87 | 19.00              |                    |
|                        | 50        | LOW       | 64QAM      | 19.00      | 18.78 | 18.68 | 19.00              |                    |
|                        |           | MID       | 64QAM      | 18.96      | 18.98 | 18.64 | 19.00              |                    |
|                        |           | HIGH      | 64QAM      | 18.97      | 18.85 | 18.78 | 19.00              |                    |
| 100                    | LOW       | 64QAM     | 18.89      | 18.78      | 18.86 | 19.00 |                    |                    |

| LTE B7-State2&4&6 -Ant.3 |           |           |            |            |       |       |                    |                    |
|--------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                | RB Size   | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                        | 1         | LOW       | QPSK       | 23.45      | 23.30 | 23.50 | 23.50              |                    |
|                          |           | MID       | QPSK       | 23.44      | 23.31 | 23.37 | 23.50              |                    |
|                          |           | HIGH      | QPSK       | 23.40      | 23.47 | 23.42 | 23.50              |                    |
|                          | 12        | LOW       | QPSK       | 22.37      | 22.44 | 22.43 | 22.50              |                    |
|                          |           | MID       | QPSK       | 22.46      | 22.37 | 22.42 | 22.50              |                    |
|                          |           | HIGH      | QPSK       | 22.43      | 22.33 | 22.33 | 22.50              |                    |
|                          | 25        | LOW       | QPSK       | 22.41      | 22.40 | 22.32 | 22.50              |                    |
|                          | 5         | 1         | LOW        | Q16        | 22.30 | 22.39 | 22.44              | 22.50              |
|                          |           |           | MID        | Q16        | 22.44 | 22.38 | 22.34              | 22.50              |
| HIGH                     |           |           | Q16        | 22.50      | 22.41 | 22.35 | 22.50              |                    |
| 12                       |           | LOW       | Q16        | 21.36      | 21.37 | 21.41 | 21.50              |                    |
|                          |           | MID       | Q16        | 21.32      | 21.36 | 21.43 | 21.50              |                    |
|                          |           | HIGH      | Q16        | 21.33      | 21.29 | 21.24 | 21.50              |                    |
| 25                       |           | LOW       | Q16        | 21.33      | 21.38 | 21.29 | 21.50              |                    |
| 5                        |           | 1         | LOW        | 64QAM      | 21.41 | 21.44 | 21.27              | 21.50              |
|                          |           |           | MID        | 64QAM      | 21.47 | 21.41 | 21.46              | 21.50              |
|                          | HIGH      |           | 64QAM      | 21.28      | 21.36 | 21.38 | 21.50              |                    |
|                          | 12        | LOW       | 64QAM      | 20.43      | 20.43 | 20.43 | 20.50              |                    |
|                          |           | MID       | 64QAM      | 20.23      | 20.43 | 20.31 | 20.50              |                    |
|                          |           | HIGH      | 64QAM      | 20.44      | 20.45 | 20.39 | 20.50              |                    |
|                          | 25        | LOW       | 64QAM      | 20.44      | 20.41 | 20.45 | 20.50              |                    |
|                          | Bandwidth | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                          | 10        | 1         | LOW        | QPSK       | 23.40 | 23.48 | 23.40              | 23.50              |
| MID                      |           |           | QPSK       | 23.38      | 23.27 | 23.40 | 23.50              |                    |
| HIGH                     |           |           | QPSK       | 23.48      | 23.28 | 23.47 | 23.50              |                    |
| 25                       |           | LOW       | QPSK       | 22.42      | 22.41 | 22.39 | 22.50              |                    |
|                          |           | MID       | QPSK       | 22.36      | 22.46 | 22.42 | 22.50              |                    |
|                          |           | HIGH      | QPSK       | 22.34      | 22.33 | 22.35 | 22.50              |                    |
| 50                       | LOW       | QPSK      | 22.37      | 22.47      | 22.45 | 22.50 |                    |                    |
| 10                       | 1         | LOW       | Q16        | 22.33      | 22.45 | 22.50 | 22.50              |                    |
|                          |           | MID       | Q16        | 22.38      | 22.49 | 22.42 | 22.50              |                    |
|                          |           | HIGH      | Q16        | 22.44      | 22.39 | 22.37 | 22.50              |                    |
|                          | 25        | LOW       | Q16        | 21.35      | 21.34 | 21.28 | 21.50              |                    |
|                          |           | MID       | Q16        | 21.33      | 21.48 | 21.47 | 21.50              |                    |
|                          |           | HIGH      | Q16        | 21.32      | 21.34 | 21.24 | 21.50              |                    |
| 50                       | LOW       | Q16       | 21.32      | 21.43      | 21.42 | 21.50 |                    |                    |
| 10                       | 1         | LOW       | 64QAM      | 21.30      | 21.43 | 21.28 | 21.50              |                    |
|                          |           | MID       | 64QAM      | 21.42      | 21.31 | 21.45 | 21.50              |                    |
|                          |           | HIGH      | 64QAM      | 21.34      | 21.26 | 21.39 | 21.50              |                    |
|                          | 25        | LOW       | 64QAM      | 20.40      | 20.44 | 20.38 | 20.50              |                    |
|                          |           | MID       | 64QAM      | 20.24      | 20.50 | 20.37 | 20.50              |                    |
|                          |           | HIGH      | 64QAM      | 20.44      | 20.46 | 20.30 | 20.50              |                    |
| 50                       | LOW       | 64QAM     | 20.47      | 20.47      | 20.45 | 20.50 |                    |                    |

| LTE B7-State2&4&6 -Ant.3 |           |           |            |            |       |       |                    |                    |
|--------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                | RB Size   | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                       | 1         | LOW       | QPSK       | 23.40      | 23.33 | 23.42 | 23.50              |                    |
|                          |           | MID       | QPSK       | 23.41      | 23.34 | 23.38 | 23.50              |                    |
|                          |           | HIGH      | QPSK       | 23.33      | 23.37 | 23.33 | 23.50              |                    |
|                          | 36        | LOW       | QPSK       | 22.39      | 22.50 | 22.40 | 22.50              |                    |
|                          |           | MID       | QPSK       | 22.31      | 22.37 | 22.36 | 22.50              |                    |
|                          |           | HIGH      | QPSK       | 22.44      | 22.49 | 22.44 | 22.50              |                    |
|                          | 75        | LOW       | QPSK       | 22.32      | 22.47 | 22.42 | 22.50              |                    |
|                          | 15        | 1         | LOW        | Q16        | 22.31 | 22.49 | 22.39              | 22.50              |
|                          |           |           | MID        | Q16        | 22.37 | 22.33 | 22.41              | 22.50              |
| HIGH                     |           |           | Q16        | 22.42      | 22.40 | 22.34 | 22.50              |                    |
| 36                       |           | LOW       | Q16        | 21.33      | 21.41 | 21.47 | 21.50              |                    |
|                          |           | MID       | Q16        | 21.29      | 21.44 | 21.33 | 21.50              |                    |
|                          |           | HIGH      | Q16        | 21.31      | 21.29 | 21.40 | 21.50              |                    |
| 75                       |           | LOW       | Q16        | 21.30      | 21.34 | 21.45 | 21.50              |                    |
| 15                       |           | 1         | LOW        | 64QAM      | 21.35 | 21.35 | 21.46              | 21.50              |
|                          |           |           | MID        | 64QAM      | 21.39 | 21.38 | 21.49              | 21.50              |
|                          | HIGH      |           | 64QAM      | 21.41      | 21.41 | 21.40 | 21.50              |                    |
|                          | 36        | LOW       | 64QAM      | 20.41      | 20.40 | 20.38 | 20.50              |                    |
|                          |           | MID       | 64QAM      | 20.26      | 20.43 | 20.43 | 20.50              |                    |
|                          |           | HIGH      | 64QAM      | 20.42      | 20.41 | 20.45 | 20.50              |                    |
|                          | 75        | LOW       | 64QAM      | 20.48      | 20.38 | 20.40 | 20.50              |                    |
|                          | Bandwidth | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                          | 20        | 1         | LOW        | QPSK       | 23.33 | 23.40 | 23.41              | 23.50              |
| MID                      |           |           | QPSK       | 23.39      | 23.44 | 23.38 | 23.50              |                    |
| HIGH                     |           |           | QPSK       | 23.43      | 23.38 | 23.42 | 23.50              |                    |
| 50                       |           | LOW       | QPSK       | 22.33      | 22.42 | 22.43 | 22.50              |                    |
|                          |           | MID       | QPSK       | 22.36      | 22.44 | 22.43 | 22.50              |                    |
|                          |           | HIGH      | QPSK       | 22.36      | 22.43 | 22.37 | 22.50              |                    |
| 100                      |           | LOW       | QPSK       | 22.35      | 22.45 | 22.39 | 22.50              |                    |
| 20                       |           | 1         | LOW        | Q16        | 22.31 | 22.48 | 22.47              | 22.50              |
|                          |           |           | MID        | Q16        | 22.46 | 22.43 | 22.43              | 22.50              |
|                          | HIGH      |           | Q16        | 22.49      | 22.43 | 22.31 | 22.50              |                    |
|                          | 50        | LOW       | Q16        | 21.31      | 21.43 | 21.37 | 21.50              |                    |
|                          |           | MID       | Q16        | 21.39      | 21.45 | 21.38 | 21.50              |                    |
|                          |           | HIGH      | Q16        | 21.35      | 21.38 | 21.31 | 21.50              |                    |
|                          | 100       | LOW       | Q16        | 21.34      | 21.44 | 21.36 | 21.50              |                    |
|                          | 20        | 1         | LOW        | 64QAM      | 21.37 | 21.35 | 21.37              | 21.50              |
|                          |           |           | MID        | 64QAM      | 21.37 | 21.31 | 21.41              | 21.50              |
| HIGH                     |           |           | 64QAM      | 21.31      | 21.36 | 21.40 | 21.50              |                    |
| 50                       |           | LOW       | 64QAM      | 20.45      | 20.45 | 20.47 | 20.50              |                    |
|                          |           | MID       | 64QAM      | 20.31      | 20.48 | 20.40 | 20.50              |                    |
|                          |           | HIGH      | 64QAM      | 20.48      | 20.49 | 20.38 | 20.50              |                    |
| 100                      |           | LOW       | 64QAM      | 20.46      | 20.46 | 20.36 | 20.50              |                    |

### 8.3.5 LTE Band12 Output Power

| LTE B12-Full Power -Ant.1 |         |           |            |       |       |       |                    |
|---------------------------|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (MHz)           | RB Size | RB offset | Modulation | 23017 | 23095 | 23173 | Tune-up power(dBm) |
| 1.4                       | 1       | LOW       | QPSK       | 22.76 | 22.88 | 22.78 | 24.10              |
|                           |         | MID       | QPSK       | 22.87 | 22.90 | 22.80 | 24.10              |
|                           |         | HIGH      | QPSK       | 22.87 | 22.90 | 22.81 | 24.10              |
|                           | 3       | LOW       | QPSK       | 22.91 | 22.92 | 22.89 | 24.10              |
|                           |         | MID       | QPSK       | 22.95 | 22.91 | 22.94 | 24.10              |
|                           |         | HIGH      | QPSK       | 22.94 | 22.91 | 22.93 | 24.10              |
| 6                         | LOW     | QPSK      | 21.86      | 21.98 | 21.91 | 23.10 |                    |
| 1.4                       | 1       | LOW       | Q16        | 22.01 | 22.34 | 21.88 | 23.10              |
|                           |         | MID       | Q16        | 22.10 | 22.33 | 21.86 | 23.10              |
|                           |         | HIGH      | Q16        | 22.08 | 22.34 | 21.90 | 23.10              |
|                           | 3       | LOW       | Q16        | 21.95 | 22.18 | 22.01 | 23.10              |
|                           |         | MID       | Q16        | 22.01 | 22.13 | 22.03 | 23.10              |
|                           |         | HIGH      | Q16        | 21.99 | 22.10 | 21.99 | 23.10              |
| 6                         | LOW     | Q16       | 21.01      | 20.83 | 21.04 | 22.10 |                    |
| 1.4                       | 1       | LOW       | 64QAM      | 21.15 | 21.21 | 20.73 | 22.10              |
|                           |         | MID       | 64QAM      | 21.21 | 21.23 | 21.01 | 22.10              |
|                           |         | HIGH      | 64QAM      | 21.06 | 21.38 | 20.89 | 22.10              |
|                           | 3       | LOW       | 64QAM      | 20.99 | 21.14 | 21.00 | 22.10              |
|                           |         | MID       | 64QAM      | 21.11 | 21.26 | 21.00 | 22.10              |
|                           |         | HIGH      | 64QAM      | 20.98 | 21.25 | 21.11 | 22.10              |
| 6                         | LOW     | 64QAM     | 19.96      | 19.88 | 20.09 | 21.10 |                    |
| Bandwidth (MHz)           | RB Size | RB offset | Modulation | 23025 | 23095 | 23165 | Tune-up power(dBm) |
| 3                         | 1       | LOW       | QPSK       | 22.89 | 23.03 | 22.79 | 24.10              |
|                           |         | MID       | QPSK       | 23.13 | 22.89 | 23.03 | 24.10              |
|                           |         | HIGH      | QPSK       | 22.87 | 22.92 | 22.94 | 24.10              |
|                           | 8       | LOW       | QPSK       | 21.99 | 21.98 | 21.73 | 23.10              |
|                           |         | MID       | QPSK       | 22.06 | 21.93 | 21.86 | 23.10              |
|                           |         | HIGH      | QPSK       | 22.08 | 22.14 | 21.67 | 23.10              |
| 15                        | LOW     | QPSK      | 21.92      | 22.09 | 21.99 | 23.10 |                    |
| 3                         | 1       | LOW       | Q16        | 21.81 | 22.25 | 21.81 | 23.10              |
|                           |         | MID       | Q16        | 21.94 | 22.44 | 22.11 | 23.10              |
|                           |         | HIGH      | Q16        | 21.77 | 22.26 | 22.06 | 23.10              |
|                           | 8       | LOW       | Q16        | 20.88 | 20.90 | 20.92 | 22.10              |
|                           |         | MID       | Q16        | 21.05 | 20.95 | 20.98 | 22.10              |
|                           |         | HIGH      | Q16        | 20.95 | 21.10 | 20.85 | 22.10              |
| 15                        | LOW     | Q16       | 21.04      | 20.88 | 20.73 | 22.10 |                    |
| 3                         | 1       | LOW       | 64QAM      | 20.91 | 21.28 | 21.00 | 22.10              |
|                           |         | MID       | 64QAM      | 21.01 | 21.39 | 20.83 | 22.10              |
|                           |         | HIGH      | 64QAM      | 21.00 | 21.33 | 20.65 | 22.10              |
|                           | 8       | LOW       | 64QAM      | 19.99 | 20.09 | 19.98 | 21.10              |
|                           |         | MID       | 64QAM      | 19.77 | 20.14 | 19.91 | 21.10              |
|                           |         | HIGH      | 64QAM      | 19.78 | 19.96 | 20.01 | 21.10              |
| 15                        | LOW     | 64QAM     | 19.79      | 20.14 | 19.91 | 21.10 |                    |

| LTE B12-Full Power -Ant.1 |         |           |            |       |       |       |                    |
|---------------------------|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (MHz)           | RB Size | RB offset | Modulation | 23035 | 23095 | 23155 | Tune-up power(dBm) |
| 5                         | 1       | LOW       | QPSK       | 22.87 | 22.80 | 22.98 | 24.10              |
|                           |         | MID       | QPSK       | 23.03 | 23.11 | 23.02 | 24.10              |
|                           |         | HIGH      | QPSK       | 23.12 | 22.89 | 22.79 | 24.10              |
|                           | 12      | LOW       | QPSK       | 21.99 | 22.11 | 21.73 | 23.10              |
|                           |         | MID       | QPSK       | 21.89 | 22.06 | 21.76 | 23.10              |
|                           |         | HIGH      | QPSK       | 21.93 | 22.04 | 21.70 | 23.10              |
| 25                        | LOW     | QPSK      | 21.96      | 22.14 | 21.95 | 23.10 |                    |
| 5                         | 1       | LOW       | Q16        | 21.74 | 22.38 | 21.82 | 23.10              |
|                           |         | MID       | Q16        | 21.87 | 22.44 | 21.95 | 23.10              |
|                           |         | HIGH      | Q16        | 21.81 | 22.22 | 21.76 | 23.10              |
|                           | 12      | LOW       | Q16        | 21.01 | 20.87 | 21.00 | 22.10              |
|                           |         | MID       | Q16        | 21.02 | 21.11 | 21.11 | 22.10              |
|                           |         | HIGH      | Q16        | 21.03 | 21.02 | 20.96 | 22.10              |
| 25                        | LOW     | Q16       | 20.86      | 21.01 | 21.01 | 22.10 |                    |
| 5                         | 1       | LOW       | 64QAM      | 20.95 | 21.15 | 21.05 | 22.10              |
|                           |         | MID       | 64QAM      | 20.96 | 21.47 | 21.02 | 22.10              |
|                           |         | HIGH      | 64QAM      | 20.92 | 21.37 | 20.62 | 22.10              |
|                           | 12      | LOW       | 64QAM      | 19.91 | 20.25 | 20.02 | 21.10              |
|                           |         | MID       | 64QAM      | 19.88 | 20.17 | 20.00 | 21.10              |
|                           |         | HIGH      | 64QAM      | 19.95 | 19.95 | 19.76 | 21.10              |
| 25                        | LOW     | 64QAM     | 19.94      | 20.06 | 20.01 | 21.10 |                    |
| Bandwidth (MHz)           | RB Size | RB offset | Modulation | 23060 | 23095 | 23130 | Tune-up power(dBm) |
| 10                        | 1       | LOW       | QPSK       | 22.95 | 22.92 | 22.93 | 24.10              |
|                           |         | MID       | QPSK       | 22.94 | 22.99 | 23.04 | 24.10              |
|                           |         | HIGH      | QPSK       | 22.99 | 22.92 | 22.92 | 24.10              |
|                           | 25      | LOW       | QPSK       | 22.00 | 21.99 | 21.88 | 23.10              |
|                           |         | MID       | QPSK       | 21.95 | 21.97 | 22.01 | 23.10              |
|                           |         | HIGH      | QPSK       | 21.93 | 22.00 | 21.81 | 23.10              |
| 50                        | LOW     | QPSK      | 22.01      | 21.99 | 21.92 | 23.10 |                    |
| 10                        | 1       | LOW       | Q16        | 21.86 | 22.26 | 21.96 | 23.10              |
|                           |         | MID       | Q16        | 21.88 | 22.35 | 22.00 | 23.10              |
|                           |         | HIGH      | Q16        | 21.87 | 22.32 | 21.91 | 23.10              |
|                           | 25      | LOW       | Q16        | 20.99 | 21.02 | 21.00 | 22.10              |
|                           |         | MID       | Q16        | 20.96 | 20.97 | 21.00 | 22.10              |
|                           |         | HIGH      | Q16        | 20.96 | 21.05 | 20.87 | 22.10              |
| 50                        | LOW     | Q16       | 20.93      | 21.02 | 20.88 | 22.10 |                    |
| 10                        | 1       | LOW       | 64QAM      | 20.91 | 21.16 | 20.98 | 22.10              |
|                           |         | MID       | 64QAM      | 20.90 | 21.34 | 20.96 | 22.10              |
|                           |         | HIGH      | 64QAM      | 20.90 | 21.31 | 20.77 | 22.10              |
|                           | 25      | LOW       | 64QAM      | 19.88 | 20.17 | 20.11 | 21.10              |
|                           |         | MID       | 64QAM      | 19.91 | 20.09 | 20.00 | 21.10              |
|                           |         | HIGH      | 64QAM      | 19.89 | 20.00 | 19.86 | 21.10              |
| 50                        | LOW     | 64QAM     | 19.91      | 20.05 | 19.99 | 21.10 |                    |

| LTE B12-State1&2&3&4&5&6 -Ant.1 |         |           |            |       |       |       |                    |
|---------------------------------|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (MHz)                 | RB Size | RB offset | Modulation | 23017 | 23095 | 23173 | Tune-up power(dBm) |
| 1.4                             | 1       | LOW       | QPSK       | 22.76 | 22.88 | 22.78 | 24.10              |
|                                 |         | MID       | QPSK       | 22.87 | 22.90 | 22.80 | 24.10              |
|                                 |         | HIGH      | QPSK       | 22.87 | 22.90 | 22.81 | 24.10              |
|                                 | 3       | LOW       | QPSK       | 22.91 | 22.92 | 22.89 | 24.10              |
|                                 |         | MID       | QPSK       | 22.95 | 22.91 | 22.94 | 24.10              |
|                                 |         | HIGH      | QPSK       | 22.94 | 22.91 | 22.93 | 24.10              |
| 6                               | LOW     | QPSK      | 21.86      | 21.98 | 21.91 | 23.10 |                    |
| 1.4                             | 1       | LOW       | Q16        | 22.01 | 22.34 | 21.88 | 23.10              |
|                                 |         | MID       | Q16        | 22.10 | 22.33 | 21.86 | 23.10              |
|                                 |         | HIGH      | Q16        | 22.08 | 22.34 | 21.90 | 23.10              |
|                                 | 3       | LOW       | Q16        | 21.95 | 22.18 | 22.01 | 23.10              |
|                                 |         | MID       | Q16        | 22.01 | 22.13 | 22.03 | 23.10              |
|                                 |         | HIGH      | Q16        | 21.99 | 22.10 | 21.99 | 23.10              |
| 6                               | LOW     | Q16       | 21.01      | 20.83 | 21.04 | 22.10 |                    |
| 1.4                             | 1       | LOW       | 64QAM      | 21.15 | 21.21 | 20.73 | 22.10              |
|                                 |         | MID       | 64QAM      | 21.21 | 21.23 | 21.01 | 22.10              |
|                                 |         | HIGH      | 64QAM      | 21.06 | 21.38 | 20.89 | 22.10              |
|                                 | 3       | LOW       | 64QAM      | 20.99 | 21.14 | 21.00 | 22.10              |
|                                 |         | MID       | 64QAM      | 21.11 | 21.26 | 21.00 | 22.10              |
|                                 |         | HIGH      | 64QAM      | 20.98 | 21.25 | 21.11 | 22.10              |
| 6                               | LOW     | 64QAM     | 19.96      | 19.88 | 20.09 | 21.10 |                    |
| Bandwidth (MHz)                 | RB Size | RB offset | Modulation | 23025 | 23095 | 23165 | Tune-up power(dBm) |
| 3                               | 1       | LOW       | QPSK       | 22.89 | 23.03 | 22.79 | 24.10              |
|                                 |         | MID       | QPSK       | 23.13 | 22.89 | 23.03 | 24.10              |
|                                 |         | HIGH      | QPSK       | 22.87 | 22.92 | 22.94 | 24.10              |
|                                 | 8       | LOW       | QPSK       | 21.99 | 21.98 | 21.73 | 23.10              |
|                                 |         | MID       | QPSK       | 22.06 | 21.93 | 21.86 | 23.10              |
|                                 |         | HIGH      | QPSK       | 22.08 | 22.14 | 21.67 | 23.10              |
| 15                              | LOW     | QPSK      | 21.92      | 22.09 | 21.99 | 23.10 |                    |
| 3                               | 1       | LOW       | Q16        | 21.81 | 22.25 | 21.81 | 23.10              |
|                                 |         | MID       | Q16        | 21.94 | 22.44 | 22.11 | 23.10              |
|                                 |         | HIGH      | Q16        | 21.77 | 22.26 | 22.06 | 23.10              |
|                                 | 8       | LOW       | Q16        | 20.88 | 20.90 | 20.92 | 22.10              |
|                                 |         | MID       | Q16        | 21.05 | 20.95 | 20.98 | 22.10              |
|                                 |         | HIGH      | Q16        | 20.95 | 21.10 | 20.85 | 22.10              |
| 15                              | LOW     | Q16       | 21.04      | 20.88 | 20.73 | 22.10 |                    |
| 3                               | 1       | LOW       | 64QAM      | 20.91 | 21.28 | 21.00 | 22.10              |
|                                 |         | MID       | 64QAM      | 21.01 | 21.39 | 20.83 | 22.10              |
|                                 |         | HIGH      | 64QAM      | 21.00 | 21.33 | 20.65 | 22.10              |
|                                 | 8       | LOW       | 64QAM      | 19.99 | 20.09 | 19.98 | 21.10              |
|                                 |         | MID       | 64QAM      | 19.77 | 20.14 | 19.91 | 21.10              |
|                                 |         | HIGH      | 64QAM      | 19.78 | 19.96 | 20.01 | 21.10              |
| 15                              | LOW     | 64QAM     | 19.79      | 20.14 | 19.91 | 21.10 |                    |



| LTE B12-State1&2&3&4&5&6 -Ant.1 |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 23035      | 23095 | 23155 | Tune-up power(dBm) |                    |
| 5                               | 1               | LOW       | QPSK       | 22.87      | 22.80 | 22.98 | 24.10              |                    |
|                                 |                 | MID       | QPSK       | 23.03      | 23.11 | 23.02 | 24.10              |                    |
|                                 |                 | HIGH      | QPSK       | 23.12      | 22.89 | 22.79 | 24.10              |                    |
|                                 | 12              | LOW       | QPSK       | 21.99      | 22.11 | 21.73 | 23.10              |                    |
|                                 |                 | MID       | QPSK       | 21.89      | 22.06 | 21.76 | 23.10              |                    |
|                                 |                 | HIGH      | QPSK       | 21.93      | 22.04 | 21.70 | 23.10              |                    |
|                                 | 25              | LOW       | QPSK       | 21.96      | 22.14 | 21.95 | 23.10              |                    |
|                                 | 5               | 1         | LOW        | Q16        | 21.74 | 22.38 | 21.82              | 23.10              |
|                                 |                 |           | MID        | Q16        | 21.87 | 22.44 | 21.95              | 23.10              |
| HIGH                            |                 |           | Q16        | 21.81      | 22.22 | 21.76 | 23.10              |                    |
| 12                              |                 | LOW       | Q16        | 21.01      | 20.87 | 21.00 | 22.10              |                    |
|                                 |                 | MID       | Q16        | 21.02      | 21.11 | 21.11 | 22.10              |                    |
|                                 |                 | HIGH      | Q16        | 21.03      | 21.02 | 20.96 | 22.10              |                    |
| 25                              |                 | LOW       | Q16        | 20.86      | 21.01 | 21.01 | 22.10              |                    |
| 5                               |                 | 1         | LOW        | 64QAM      | 20.95 | 21.15 | 21.05              | 22.10              |
|                                 |                 |           | MID        | 64QAM      | 20.96 | 21.47 | 21.02              | 22.10              |
|                                 | HIGH            |           | 64QAM      | 20.92      | 21.37 | 20.62 | 22.10              |                    |
|                                 | 12              | LOW       | 64QAM      | 19.91      | 20.25 | 20.02 | 21.10              |                    |
|                                 |                 | MID       | 64QAM      | 19.88      | 20.17 | 20.00 | 21.10              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.95      | 19.95 | 19.76 | 21.10              |                    |
|                                 | 25              | LOW       | 64QAM      | 19.94      | 20.06 | 20.01 | 21.10              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 23060 | 23095 | 23130              | Tune-up power(dBm) |
|                                 | 10              | 1         | LOW        | QPSK       | 22.95 | 22.92 | 22.93              | 24.10              |
| MID                             |                 |           | QPSK       | 22.94      | 22.99 | 23.04 | 24.10              |                    |
| HIGH                            |                 |           | QPSK       | 22.99      | 22.92 | 22.92 | 24.10              |                    |
| 25                              |                 | LOW       | QPSK       | 22.00      | 21.99 | 21.88 | 23.10              |                    |
|                                 |                 | MID       | QPSK       | 21.95      | 21.97 | 22.01 | 23.10              |                    |
|                                 |                 | HIGH      | QPSK       | 21.93      | 22.00 | 21.81 | 23.10              |                    |
| 50                              |                 | LOW       | QPSK       | 22.01      | 21.99 | 21.92 | 23.10              |                    |
| 10                              |                 | 1         | LOW        | Q16        | 21.86 | 22.26 | 21.96              | 23.10              |
|                                 |                 |           | MID        | Q16        | 21.88 | 22.35 | 22.00              | 23.10              |
|                                 | HIGH            |           | Q16        | 21.87      | 22.32 | 21.91 | 23.10              |                    |
|                                 | 25              | LOW       | Q16        | 20.99      | 21.02 | 21.00 | 22.10              |                    |
|                                 |                 | MID       | Q16        | 20.96      | 20.97 | 21.00 | 22.10              |                    |
|                                 |                 | HIGH      | Q16        | 20.96      | 21.05 | 20.87 | 22.10              |                    |
|                                 | 50              | LOW       | Q16        | 20.93      | 21.02 | 20.88 | 22.10              |                    |
|                                 | 10              | 1         | LOW        | 64QAM      | 20.91 | 21.16 | 20.98              | 22.10              |
|                                 |                 |           | MID        | 64QAM      | 20.90 | 21.34 | 20.96              | 22.10              |
| HIGH                            |                 |           | 64QAM      | 20.90      | 21.31 | 20.77 | 22.10              |                    |
| 25                              |                 | LOW       | 64QAM      | 19.88      | 20.17 | 20.11 | 21.10              |                    |
|                                 |                 | MID       | 64QAM      | 19.91      | 20.09 | 20.00 | 21.10              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.89      | 20.00 | 19.86 | 21.10              |                    |
| 50                              |                 | LOW       | 64QAM      | 19.91      | 20.05 | 19.99 | 21.10              |                    |

### 8.3.5 LTE Band12 Output Power

| LTE B12-Full Power -Ant.0 |         |           |            |       |       |       |                    |
|---------------------------|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (MHz)           | RB Size | RB offset | Modulation | 23017 | 23095 | 23173 | Tune-up power(dBm) |
| 1.4                       | 1       | LOW       | QPSK       | 22.85 | 22.98 | 22.88 | 24.50              |
|                           |         | MID       | QPSK       | 22.93 | 22.99 | 22.92 | 24.50              |
|                           |         | HIGH      | QPSK       | 22.97 | 22.99 | 22.92 | 24.50              |
|                           | 3       | LOW       | QPSK       | 22.99 | 23.02 | 23.00 | 24.50              |
|                           |         | MID       | QPSK       | 23.05 | 23.00 | 23.03 | 24.50              |
|                           |         | HIGH      | QPSK       | 23.01 | 23.00 | 23.01 | 24.50              |
| 6                         | LOW     | QPSK      | 21.98      | 22.10 | 22.02 | 23.50 |                    |
| 1.4                       | 1       | LOW       | Q16        | 22.08 | 22.44 | 21.97 | 23.50              |
|                           |         | MID       | Q16        | 22.16 | 22.43 | 22.02 | 23.50              |
|                           |         | HIGH      | Q16        | 22.16 | 22.42 | 22.01 | 23.50              |
|                           | 3       | LOW       | Q16        | 22.02 | 22.27 | 22.10 | 23.50              |
|                           |         | MID       | Q16        | 22.06 | 22.23 | 22.13 | 23.50              |
|                           |         | HIGH      | Q16        | 22.09 | 22.21 | 22.14 | 23.50              |
| 6                         | LOW     | Q16       | 21.11      | 20.94 | 21.14 | 22.50 |                    |
| 1.4                       | 1       | LOW       | 64QAM      | 21.10 | 21.44 | 20.95 | 22.50              |
|                           |         | MID       | 64QAM      | 21.29 | 21.37 | 20.93 | 22.50              |
|                           |         | HIGH      | 64QAM      | 21.04 | 21.40 | 21.08 | 22.50              |
|                           | 3       | LOW       | 64QAM      | 21.16 | 21.13 | 21.03 | 22.50              |
|                           |         | MID       | 64QAM      | 21.20 | 21.08 | 21.27 | 22.50              |
|                           |         | HIGH      | 64QAM      | 20.95 | 21.09 | 21.27 | 22.50              |
| 6                         | LOW     | 64QAM     | 20.03      | 19.80 | 20.12 | 21.50 |                    |
| Bandwidth (MHz)           | RB Size | RB offset | Modulation | 23025 | 23095 | 23165 | Tune-up power(dBm) |
| 3                         | 1       | LOW       | QPSK       | 22.91 | 23.06 | 22.86 | 24.50              |
|                           |         | MID       | QPSK       | 23.13 | 23.19 | 22.96 | 24.50              |
|                           |         | HIGH      | QPSK       | 23.14 | 22.99 | 23.05 | 24.50              |
|                           | 8       | LOW       | QPSK       | 22.00 | 22.16 | 22.12 | 23.50              |
|                           |         | MID       | QPSK       | 22.01 | 21.93 | 22.09 | 23.50              |
|                           |         | HIGH      | QPSK       | 22.14 | 22.12 | 21.94 | 23.50              |
| 15                        | LOW     | QPSK      | 21.98      | 22.14 | 21.88 | 23.50 |                    |
| 3                         | 1       | LOW       | Q16        | 22.04 | 22.38 | 22.11 | 23.50              |
|                           |         | MID       | Q16        | 21.84 | 22.56 | 22.04 | 23.50              |
|                           |         | HIGH      | Q16        | 21.93 | 22.41 | 22.10 | 23.50              |
|                           | 8       | LOW       | Q16        | 21.08 | 21.22 | 21.14 | 22.50              |
|                           |         | MID       | Q16        | 21.12 | 21.12 | 21.13 | 22.50              |
|                           |         | HIGH      | Q16        | 21.09 | 21.18 | 21.09 | 22.50              |
| 15                        | LOW     | Q16       | 20.89      | 21.05 | 21.06 | 22.50 |                    |
| 3                         | 1       | LOW       | 64QAM      | 20.79 | 21.51 | 20.95 | 22.50              |
|                           |         | MID       | 64QAM      | 20.93 | 21.31 | 21.14 | 22.50              |
|                           |         | HIGH      | 64QAM      | 20.82 | 21.54 | 20.96 | 22.50              |
|                           | 8       | LOW       | 64QAM      | 20.03 | 20.09 | 20.32 | 21.50              |
|                           |         | MID       | 64QAM      | 20.26 | 19.82 | 20.18 | 21.50              |
|                           |         | HIGH      | 64QAM      | 19.90 | 20.26 | 20.03 | 21.50              |
| 15                        | LOW     | 64QAM     | 20.06      | 19.90 | 19.79 | 21.50 |                    |

| LTE B12-Full Power -Ant.0 |                 |           |            |            |       |       |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 23035      | 23095 | 23155 | Tune-up power(dBm) |                    |
| 5                         | 1               | LOW       | QPSK       | 22.91      | 23.09 | 22.86 | 24.50              |                    |
|                           |                 | MID       | QPSK       | 23.13      | 23.16 | 23.08 | 24.50              |                    |
|                           |                 | HIGH      | QPSK       | 23.08      | 23.01 | 22.94 | 24.50              |                    |
|                           | 12              | LOW       | QPSK       | 22.14      | 22.22 | 22.12 | 23.50              |                    |
|                           |                 | MID       | QPSK       | 22.20      | 22.13 | 22.07 | 23.50              |                    |
|                           |                 | HIGH      | QPSK       | 22.17      | 22.16 | 22.06 | 23.50              |                    |
|                           | 25              | LOW       | QPSK       | 21.98      | 22.07 | 21.96 | 23.50              |                    |
|                           | 5               | 1         | LOW        | Q16        | 21.83 | 22.42 | 22.00              | 23.50              |
|                           |                 |           | MID        | Q16        | 22.14 | 22.56 | 22.27              | 23.50              |
| HIGH                      |                 |           | Q16        | 21.88      | 22.41 | 22.13 | 23.50              |                    |
| 12                        |                 | LOW       | Q16        | 21.19      | 21.04 | 21.10 | 22.50              |                    |
|                           |                 | MID       | Q16        | 20.99      | 20.92 | 21.18 | 22.50              |                    |
|                           |                 | HIGH      | Q16        | 21.06      | 21.14 | 21.16 | 22.50              |                    |
| 25                        |                 | LOW       | Q16        | 20.98      | 21.19 | 21.07 | 22.50              |                    |
| 5                         |                 | 1         | LOW        | 64QAM      | 20.76 | 21.63 | 21.07              | 22.50              |
|                           |                 |           | MID        | 64QAM      | 21.06 | 21.30 | 21.16              | 22.50              |
|                           | HIGH            |           | 64QAM      | 20.82      | 21.48 | 21.08 | 22.50              |                    |
|                           | 12              | LOW       | 64QAM      | 19.82      | 20.18 | 20.37 | 21.50              |                    |
|                           |                 | MID       | 64QAM      | 20.13      | 19.93 | 20.11 | 21.50              |                    |
|                           |                 | HIGH      | 64QAM      | 19.84      | 20.29 | 20.02 | 21.50              |                    |
|                           | 25              | LOW       | 64QAM      | 20.12      | 20.19 | 19.87 | 21.50              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 23060 | 23095 | 23130              | Tune-up power(dBm) |
|                           | 10              | 1         | LOW        | QPSK       | 23.06 | 22.98 | 23.12              | 24.50              |
| MID                       |                 |           | QPSK       | 22.99      | 23.08 | 23.07 | 24.50              |                    |
| HIGH                      |                 |           | QPSK       | 23.10      | 23.01 | 23.01 | 24.50              |                    |
| 25                        |                 | LOW       | QPSK       | 22.07      | 22.00 | 22.08 | 23.50              |                    |
|                           |                 | MID       | QPSK       | 22.07      | 22.07 | 22.03 | 23.50              |                    |
|                           |                 | HIGH      | QPSK       | 22.04      | 22.07 | 21.94 | 23.50              |                    |
| 50                        |                 | LOW       | QPSK       | 22.09      | 22.13 | 22.01 | 23.50              |                    |
| 10                        |                 | 1         | LOW        | Q16        | 21.93 | 22.40 | 22.04              | 23.50              |
|                           |                 |           | MID        | Q16        | 21.99 | 22.46 | 22.13              | 23.50              |
|                           | HIGH            |           | Q16        | 21.97      | 22.42 | 21.99 | 23.50              |                    |
|                           | 25              | LOW       | Q16        | 21.09      | 21.15 | 21.08 | 22.50              |                    |
|                           |                 | MID       | Q16        | 21.05      | 21.06 | 21.12 | 22.50              |                    |
|                           |                 | HIGH      | Q16        | 21.04      | 21.13 | 21.01 | 22.50              |                    |
|                           | 50              | LOW       | Q16        | 21.01      | 21.12 | 21.01 | 22.50              |                    |
|                           | 10              | 1         | LOW        | 64QAM      | 20.88 | 21.51 | 20.93              | 22.50              |
|                           |                 |           | MID        | 64QAM      | 20.94 | 21.42 | 21.17              | 22.50              |
| HIGH                      |                 |           | 64QAM      | 20.85      | 21.43 | 21.08 | 22.50              |                    |
| 25                        |                 | LOW       | 64QAM      | 19.97      | 20.19 | 20.22 | 21.50              |                    |
|                           |                 | MID       | 64QAM      | 20.15      | 19.95 | 20.03 | 21.50              |                    |
|                           |                 | HIGH      | 64QAM      | 19.95      | 20.16 | 20.15 | 21.50              |                    |
| 50                        |                 | LOW       | 64QAM      | 20.08      | 20.05 | 19.90 | 21.50              |                    |

| LTE B12-State1&2&3&4&5&6 -Ant.0 |         |           |            |       |       |       |                    |
|---------------------------------|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (MHz)                 | RB Size | RB offset | Modulation | 23017 | 23095 | 23173 | Tune-up power(dBm) |
| 1.4                             | 1       | LOW       | QPSK       | 22.85 | 22.98 | 22.88 | 24.50              |
|                                 |         | MID       | QPSK       | 22.93 | 22.99 | 22.92 | 24.50              |
|                                 |         | HIGH      | QPSK       | 22.97 | 22.99 | 22.92 | 24.50              |
|                                 | 3       | LOW       | QPSK       | 22.99 | 23.02 | 23.00 | 24.50              |
|                                 |         | MID       | QPSK       | 23.05 | 23.00 | 23.03 | 24.50              |
|                                 |         | HIGH      | QPSK       | 23.01 | 23.00 | 23.01 | 24.50              |
| 6                               | LOW     | QPSK      | 21.98      | 22.10 | 22.02 | 23.50 |                    |
| 1.4                             | 1       | LOW       | Q16        | 22.08 | 22.44 | 21.97 | 23.50              |
|                                 |         | MID       | Q16        | 22.16 | 22.43 | 22.02 | 23.50              |
|                                 |         | HIGH      | Q16        | 22.16 | 22.42 | 22.01 | 23.50              |
|                                 | 3       | LOW       | Q16        | 22.02 | 22.27 | 22.10 | 23.50              |
|                                 |         | MID       | Q16        | 22.06 | 22.23 | 22.13 | 23.50              |
|                                 |         | HIGH      | Q16        | 22.09 | 22.21 | 22.14 | 23.50              |
| 6                               | LOW     | Q16       | 21.11      | 20.94 | 21.14 | 22.50 |                    |
| 1.4                             | 1       | LOW       | 64QAM      | 21.10 | 21.44 | 20.95 | 22.50              |
|                                 |         | MID       | 64QAM      | 21.29 | 21.37 | 20.93 | 22.50              |
|                                 |         | HIGH      | 64QAM      | 21.04 | 21.40 | 21.08 | 22.50              |
|                                 | 3       | LOW       | 64QAM      | 21.16 | 21.13 | 21.03 | 22.50              |
|                                 |         | MID       | 64QAM      | 21.20 | 21.08 | 21.27 | 22.50              |
|                                 |         | HIGH      | 64QAM      | 20.95 | 21.09 | 21.27 | 22.50              |
| 6                               | LOW     | 64QAM     | 20.03      | 19.80 | 20.12 | 21.50 |                    |
| Bandwidth (MHz)                 | RB Size | RB offset | Modulation | 23025 | 23095 | 23165 | Tune-up power(dBm) |
| 3                               | 1       | LOW       | QPSK       | 22.91 | 23.06 | 22.86 | 24.50              |
|                                 |         | MID       | QPSK       | 23.13 | 23.19 | 22.96 | 24.50              |
|                                 |         | HIGH      | QPSK       | 23.14 | 22.99 | 23.05 | 24.50              |
|                                 | 8       | LOW       | QPSK       | 22.00 | 22.16 | 22.12 | 23.50              |
|                                 |         | MID       | QPSK       | 22.01 | 21.93 | 22.09 | 23.50              |
|                                 |         | HIGH      | QPSK       | 22.14 | 22.12 | 21.94 | 23.50              |
| 15                              | LOW     | QPSK      | 21.98      | 22.14 | 21.88 | 23.50 |                    |
| 3                               | 1       | LOW       | Q16        | 22.04 | 22.38 | 22.11 | 23.50              |
|                                 |         | MID       | Q16        | 21.84 | 22.56 | 22.04 | 23.50              |
|                                 |         | HIGH      | Q16        | 21.93 | 22.41 | 22.10 | 23.50              |
|                                 | 8       | LOW       | Q16        | 21.08 | 21.22 | 21.14 | 22.50              |
|                                 |         | MID       | Q16        | 21.12 | 21.12 | 21.13 | 22.50              |
|                                 |         | HIGH      | Q16        | 21.09 | 21.18 | 21.09 | 22.50              |
| 15                              | LOW     | Q16       | 20.89      | 21.05 | 21.06 | 22.50 |                    |
| 3                               | 1       | LOW       | 64QAM      | 20.79 | 21.51 | 20.95 | 22.50              |
|                                 |         | MID       | 64QAM      | 20.93 | 21.31 | 21.14 | 22.50              |
|                                 |         | HIGH      | 64QAM      | 20.82 | 21.54 | 20.96 | 22.50              |
|                                 | 8       | LOW       | 64QAM      | 20.03 | 20.09 | 20.32 | 21.50              |
|                                 |         | MID       | 64QAM      | 20.26 | 19.82 | 20.18 | 21.50              |
|                                 |         | HIGH      | 64QAM      | 19.90 | 20.26 | 20.03 | 21.50              |
| 15                              | LOW     | 64QAM     | 20.06      | 19.90 | 19.79 | 21.50 |                    |

| LTE B12-State1&2&3&4&5&6 -Ant.0 |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 23035      | 23095 | 23155 | Tune-up power(dBm) |                    |
| 5                               | 1               | LOW       | QPSK       | 22.91      | 23.09 | 22.86 | 24.50              |                    |
|                                 |                 | MID       | QPSK       | 23.13      | 23.16 | 23.08 | 24.50              |                    |
|                                 |                 | HIGH      | QPSK       | 23.08      | 23.01 | 22.94 | 24.50              |                    |
|                                 | 12              | LOW       | QPSK       | 22.14      | 22.22 | 22.12 | 23.50              |                    |
|                                 |                 | MID       | QPSK       | 22.20      | 22.13 | 22.07 | 23.50              |                    |
|                                 |                 | HIGH      | QPSK       | 22.17      | 22.16 | 22.06 | 23.50              |                    |
|                                 | 25              | LOW       | QPSK       | 21.98      | 22.07 | 21.96 | 23.50              |                    |
|                                 | 5               | 1         | LOW        | Q16        | 21.83 | 22.42 | 22.00              | 23.50              |
|                                 |                 |           | MID        | Q16        | 22.14 | 22.56 | 22.27              | 23.50              |
| HIGH                            |                 |           | Q16        | 21.88      | 22.41 | 22.13 | 23.50              |                    |
| 12                              |                 | LOW       | Q16        | 21.19      | 21.04 | 21.10 | 22.50              |                    |
|                                 |                 | MID       | Q16        | 20.99      | 20.92 | 21.18 | 22.50              |                    |
|                                 |                 | HIGH      | Q16        | 21.06      | 21.14 | 21.16 | 22.50              |                    |
| 25                              |                 | LOW       | Q16        | 20.98      | 21.19 | 21.07 | 22.50              |                    |
| 5                               |                 | 1         | LOW        | 64QAM      | 20.76 | 21.63 | 21.07              | 22.50              |
|                                 |                 |           | MID        | 64QAM      | 21.06 | 21.30 | 21.16              | 22.50              |
|                                 | HIGH            |           | 64QAM      | 20.82      | 21.48 | 21.08 | 22.50              |                    |
|                                 | 12              | LOW       | 64QAM      | 19.82      | 20.18 | 20.37 | 21.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.13      | 19.93 | 20.11 | 21.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.84      | 20.29 | 20.02 | 21.50              |                    |
|                                 | 25              | LOW       | 64QAM      | 20.12      | 20.19 | 19.87 | 21.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 23060 | 23095 | 23130              | Tune-up power(dBm) |
|                                 | 10              | 1         | LOW        | QPSK       | 23.06 | 22.98 | 23.12              | 24.50              |
| MID                             |                 |           | QPSK       | 22.99      | 23.08 | 23.07 | 24.50              |                    |
| HIGH                            |                 |           | QPSK       | 23.10      | 23.01 | 23.01 | 24.50              |                    |
| 25                              |                 | LOW       | QPSK       | 22.07      | 22.00 | 22.08 | 23.50              |                    |
|                                 |                 | MID       | QPSK       | 22.07      | 22.07 | 22.03 | 23.50              |                    |
|                                 |                 | HIGH      | QPSK       | 22.04      | 22.07 | 21.94 | 23.50              |                    |
| 50                              |                 | LOW       | QPSK       | 22.09      | 22.13 | 22.01 | 23.50              |                    |
| 10                              |                 | 1         | LOW        | Q16        | 21.93 | 22.40 | 22.04              | 23.50              |
|                                 |                 |           | MID        | Q16        | 21.99 | 22.46 | 22.13              | 23.50              |
|                                 | HIGH            |           | Q16        | 21.97      | 22.42 | 21.99 | 23.50              |                    |
|                                 | 25              | LOW       | Q16        | 21.09      | 21.15 | 21.08 | 22.50              |                    |
|                                 |                 | MID       | Q16        | 21.05      | 21.06 | 21.12 | 22.50              |                    |
|                                 |                 | HIGH      | Q16        | 21.04      | 21.13 | 21.01 | 22.50              |                    |
|                                 | 50              | LOW       | Q16        | 21.01      | 21.12 | 21.01 | 22.50              |                    |
|                                 | 10              | 1         | LOW        | 64QAM      | 20.88 | 21.51 | 20.93              | 22.50              |
|                                 |                 |           | MID        | 64QAM      | 20.94 | 21.42 | 21.17              | 22.50              |
| HIGH                            |                 |           | 64QAM      | 20.85      | 21.43 | 21.08 | 22.50              |                    |
| 25                              |                 | LOW       | 64QAM      | 19.97      | 20.19 | 20.22 | 21.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.15      | 19.95 | 20.03 | 21.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.95      | 20.16 | 20.15 | 21.50              |                    |
| 50                              |                 | LOW       | 64QAM      | 20.08      | 20.05 | 19.90 | 21.50              |                    |

### 8.3.6 LTE Band13 Output Power

| LTE B13-Full Power -Ant.1 |         |           |            |       |       |       |                    |          |     |
|---------------------------|---------|-----------|------------|-------|-------|-------|--------------------|----------|-----|
| Bandwidth (MHz)           | RB Size | RB offset | Modulation | 23205 | 23230 | 23255 | Tune-up power(dBm) | MPR (dB) |     |
| 5                         | 1       | LOW       | QPSK       | 22.70 | 22.71 | 22.58 | 23.70              | 0.0      |     |
|                           |         | MID       | QPSK       | 22.82 | 22.72 | 22.80 | 23.70              |          |     |
|                           |         | HIGH      | QPSK       | 22.81 | 22.73 | 22.80 | 23.70              |          |     |
|                           | 12      | LOW       | QPSK       | 21.91 | 21.84 | 21.91 | 22.70              | 1.0      |     |
|                           |         | MID       | QPSK       | 21.81 | 21.81 | 21.68 | 22.70              |          |     |
|                           |         | HIGH      | QPSK       | 21.78 | 21.83 | 21.93 | 22.70              |          |     |
| 25                        | LOW     | QPSK      | 21.84      | 21.83 | 21.68 | 22.70 | 1.0                |          |     |
| 5                         | 1       | LOW       | Q16        | 21.98 | 21.88 | 22.03 | 22.70              | 1.0      |     |
|                           |         | MID       | Q16        | 22.03 | 21.88 | 21.75 | 22.70              |          |     |
|                           |         | HIGH      | Q16        | 21.92 | 21.88 | 21.84 | 22.70              |          |     |
|                           | 12      | LOW       | Q16        | 20.89 | 20.92 | 20.94 | 21.70              | 2.0      |     |
|                           |         | MID       | Q16        | 20.73 | 20.87 | 20.91 | 21.70              |          |     |
|                           |         | HIGH      | Q16        | 20.92 | 20.89 | 20.94 | 21.70              |          |     |
|                           | 25      | LOW       | Q16        | 20.87 | 20.87 | 20.90 | 21.70              | 2.0      |     |
|                           | 5       | 1         | LOW        | 64QAM | 20.89 | 20.98 | 21.16              | 21.70    | 2.0 |
|                           |         |           | MID        | 64QAM | 21.15 | 20.93 | 20.69              | 21.70    |     |
| HIGH                      |         |           | 64QAM      | 20.92 | 20.80 | 20.97 | 21.70              |          |     |
| 12                        |         | LOW       | 64QAM      | 19.85 | 19.95 | 19.79 | 20.70              | 3.0      |     |
|                           |         | MID       | 64QAM      | 19.66 | 19.74 | 20.02 | 20.70              |          |     |
|                           |         | HIGH      | 64QAM      | 19.80 | 19.82 | 20.06 | 20.70              |          |     |
| 25                        | LOW     | 64QAM     | 19.82      | 19.91 | 19.95 | 20.70 | 3.0                |          |     |
| Bandwidth (MHz)           | RB Size | RB offset | Modulation | 23230 |       |       | Tune-up power(dBm) | MPR (dB) |     |
| 10                        | 1       | LOW       | QPSK       | /     | 22.67 | /     | 23.70              | 0.0      |     |
|                           |         | MID       | QPSK       | /     | 22.73 | /     | 23.70              |          |     |
|                           |         | HIGH      | QPSK       | /     | 22.64 | /     | 23.70              |          |     |
|                           | 25      | LOW       | QPSK       | /     | 21.91 | /     | 22.70              | 1.0      |     |
|                           |         | MID       | QPSK       | /     | 21.89 | /     | 22.70              |          |     |
|                           |         | HIGH      | QPSK       | /     | 21.90 | /     | 22.70              |          |     |
| 50                        | LOW     | QPSK      | /          | 21.98 | /     | 22.70 | 1.0                |          |     |
| 10                        | 1       | LOW       | Q16        | /     | 21.68 | /     | 22.70              | 1.0      |     |
|                           |         | MID       | Q16        | /     | 21.69 | /     | 22.70              |          |     |
|                           |         | HIGH      | Q16        | /     | 21.62 | /     | 22.70              |          |     |
|                           | 25      | LOW       | Q16        | /     | 20.93 | /     | 21.70              | 2.0      |     |
|                           |         | MID       | Q16        | /     | 20.91 | /     | 21.70              |          |     |
|                           |         | HIGH      | Q16        | /     | 20.96 | /     | 21.70              |          |     |
| 50                        | LOW     | Q16       | /          | 20.90 | /     | 21.70 | 2.0                |          |     |
| 10                        | 1       | LOW       | 64QAM      | /     | 20.59 | /     | 21.70              | 2.0      |     |
|                           |         | MID       | 64QAM      | /     | 20.69 | /     | 21.70              |          |     |
|                           |         | HIGH      | 64QAM      | /     | 20.58 | /     | 21.70              |          |     |
|                           | 25      | LOW       | 64QAM      | /     | 19.90 | /     | 20.70              | 3.0      |     |
|                           |         | MID       | 64QAM      | /     | 19.91 | /     | 20.70              |          |     |
|                           |         | HIGH      | 64QAM      | /     | 20.01 | /     | 20.70              |          |     |
| 50                        | LOW     | 64QAM     | /          | 20.00 | /     | 20.70 | 3.0                |          |     |

| LTE B13-State1&2&3&4&5&6 -Ant.1 |           |           |            |            |       |       |                    |                    |          |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|----------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 23205      | 23230 | 23255 | Tune-up power(dBm) | MPR (dB)           |          |
| 5                               | 1         | LOW       | QPSK       | 22.70      | 22.71 | 22.58 | 23.70              | 0.0                |          |
|                                 |           | MID       | QPSK       | 22.82      | 22.72 | 22.80 | 23.70              |                    |          |
|                                 |           | HIGH      | QPSK       | 22.81      | 22.73 | 22.80 | 23.70              |                    |          |
|                                 | 12        | LOW       | QPSK       | 21.91      | 21.84 | 21.91 | 22.70              | 1.0                |          |
|                                 |           | MID       | QPSK       | 21.81      | 21.81 | 21.68 | 22.70              |                    |          |
|                                 |           | HIGH      | QPSK       | 21.78      | 21.83 | 21.93 | 22.70              |                    |          |
|                                 | 25        | LOW       | QPSK       | 21.84      | 21.83 | 21.68 | 22.70              | 1.0                |          |
|                                 | 5         | 1         | LOW        | Q16        | 21.98 | 21.88 | 22.03              | 22.70              | 1.0      |
|                                 |           |           | MID        | Q16        | 22.03 | 21.88 | 21.75              | 22.70              |          |
| HIGH                            |           |           | Q16        | 21.92      | 21.88 | 21.84 | 22.70              |                    |          |
| 12                              |           | LOW       | Q16        | 20.89      | 20.92 | 20.94 | 21.70              | 2.0                |          |
|                                 |           | MID       | Q16        | 20.73      | 20.87 | 20.91 | 21.70              |                    |          |
|                                 |           | HIGH      | Q16        | 20.92      | 20.89 | 20.94 | 21.70              |                    |          |
| 25                              |           | LOW       | Q16        | 20.87      | 20.87 | 20.90 | 21.70              | 2.0                |          |
| 5                               |           | 1         | LOW        | 64QAM      | 20.89 | 20.98 | 21.16              | 21.70              | 2.0      |
|                                 |           |           | MID        | 64QAM      | 21.15 | 20.93 | 20.69              | 21.70              |          |
|                                 | HIGH      |           | 64QAM      | 20.92      | 20.80 | 20.97 | 21.70              |                    |          |
|                                 | 12        | LOW       | 64QAM      | 19.85      | 19.95 | 19.79 | 20.70              | 3.0                |          |
|                                 |           | MID       | 64QAM      | 19.66      | 19.74 | 20.02 | 20.70              |                    |          |
|                                 |           | HIGH      | 64QAM      | 19.80      | 19.82 | 20.06 | 20.70              |                    |          |
|                                 | 25        | LOW       | 64QAM      | 19.82      | 19.91 | 19.95 | 20.70              | 3.0                |          |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 23230 |       |                    | Tune-up power(dBm) | MPR (dB) |
|                                 | 10        | 1         | LOW        | QPSK       | /     | 22.67 | /                  | 23.70              | 0.0      |
| MID                             |           |           | QPSK       | /          | 22.73 | /     | 23.70              |                    |          |
| HIGH                            |           |           | QPSK       | /          | 22.64 | /     | 23.70              |                    |          |
| 25                              |           | LOW       | QPSK       | /          | 21.91 | /     | 22.70              | 1.0                |          |
|                                 |           | MID       | QPSK       | /          | 21.89 | /     | 22.70              |                    |          |
|                                 |           | HIGH      | QPSK       | /          | 21.90 | /     | 22.70              |                    |          |
| 50                              |           | LOW       | QPSK       | /          | 21.98 | /     | 22.70              | 1.0                |          |
| 10                              |           | 1         | LOW        | Q16        | /     | 21.68 | /                  | 22.70              | 1.0      |
|                                 |           |           | MID        | Q16        | /     | 21.69 | /                  | 22.70              |          |
|                                 | HIGH      |           | Q16        | /          | 21.62 | /     | 22.70              |                    |          |
|                                 | 25        | LOW       | Q16        | /          | 20.93 | /     | 21.70              | 2.0                |          |
|                                 |           | MID       | Q16        | /          | 20.91 | /     | 21.70              |                    |          |
|                                 |           | HIGH      | Q16        | /          | 20.96 | /     | 21.70              |                    |          |
|                                 | 50        | LOW       | Q16        | /          | 20.90 | /     | 21.70              | 2.0                |          |
|                                 | 10        | 1         | LOW        | 64QAM      | /     | 20.59 | /                  | 21.70              | 2.0      |
|                                 |           |           | MID        | 64QAM      | /     | 20.69 | /                  | 21.70              |          |
| HIGH                            |           |           | 64QAM      | /          | 20.58 | /     | 21.70              |                    |          |
| 25                              |           | LOW       | 64QAM      | /          | 19.90 | /     | 20.70              | 3.0                |          |
|                                 |           | MID       | 64QAM      | /          | 19.91 | /     | 20.70              |                    |          |
|                                 |           | HIGH      | 64QAM      | /          | 20.01 | /     | 20.70              |                    |          |
| 50                              |           | LOW       | 64QAM      | /          | 20.00 | /     | 20.70              | 3.0                |          |

8.3.6 LTE Band13 Output Power

| LTE B13-Full Power -Ant.0 |         |           |            |       |       |       |                    |          |       |     |
|---------------------------|---------|-----------|------------|-------|-------|-------|--------------------|----------|-------|-----|
| Bandwidth (MHz)           | RB Size | RB offset | Modulation | 23205 | 23230 | 23255 | Tune-up power(dBm) | MPR (dB) |       |     |
| 5                         | 1       | LOW       | QPSK       | 22.95 | 22.97 | 22.97 | 24.10              | 0.0      |       |     |
|                           |         | MID       | QPSK       | 22.85 | 22.93 | 22.93 | 24.10              |          |       |     |
|                           |         | HIGH      | QPSK       | 22.94 | 22.94 | 22.98 | 24.10              |          |       |     |
|                           | 12      | LOW       | QPSK       | 21.92 | 22.05 | 22.17 | 23.10              | 1.0      |       |     |
|                           |         | MID       | QPSK       | 22.11 | 22.04 | 21.98 | 23.10              |          |       |     |
|                           |         | HIGH      | QPSK       | 22.12 | 22.04 | 21.94 | 23.10              |          |       |     |
|                           | 25      | LOW       | QPSK       | 22.09 | 22.05 | 22.15 | 23.10              | 1.0      |       |     |
|                           | 5       | 1         | LOW        | Q16   | 22.15 | 22.10 | 22.03              | 23.10    | 1.0   |     |
|                           |         |           | MID        | Q16   | 22.09 | 22.10 | 22.03              | 23.10    |       |     |
| HIGH                      |         |           | Q16        | 22.09 | 22.11 | 22.09 | 23.10              |          |       |     |
| 12                        |         | LOW       | Q16        | 21.18 | 21.15 | 21.20 | 22.10              | 2.0      |       |     |
|                           |         | MID       | Q16        | 21.25 | 21.11 | 21.25 | 22.10              |          |       |     |
|                           |         | HIGH      | Q16        | 21.17 | 21.10 | 21.18 | 22.10              |          |       |     |
| 25                        |         | LOW       | Q16        | 21.24 | 21.12 | 21.14 | 22.10              | 2.0      |       |     |
| 5                         |         | 1         | LOW        | 64QAM | 21.23 | 21.24 | 20.95              | 22.10    | 2.0   |     |
|                           |         |           | MID        | 64QAM | 21.02 | 21.19 | 21.15              | 22.10    |       |     |
|                           | HIGH    |           | 64QAM      | 20.94 | 21.17 | 21.13 | 22.10              |          |       |     |
|                           | 12      | LOW       | 64QAM      | 20.15 | 20.15 | 20.16 | 21.10              | 3.0      |       |     |
|                           |         | MID       | 64QAM      | 20.15 | 20.26 | 20.13 | 21.10              |          |       |     |
|                           |         | HIGH      | 64QAM      | 20.29 | 20.15 | 20.17 | 21.10              |          |       |     |
|                           | 25      | LOW       | 64QAM      | 20.30 | 20.14 | 20.28 | 21.10              | 3.0      |       |     |
|                           | 10      | 10        | 1          | LOW   | QPSK  | 22.86 | 22.86              | 22.86    | 24.10 | 0.0 |
|                           |         |           |            | MID   | QPSK  | 22.89 | 22.89              | 22.89    | 24.10 |     |
| HIGH                      |         |           |            | QPSK  | 22.79 | 22.79 | 22.79              | 24.10    |       |     |
| 25                        |         |           | LOW        | QPSK  | 22.09 | 22.09 | 22.09              | 23.10    | 1.0   |     |
|                           |         |           | MID        | QPSK  | 22.05 | 22.05 | 22.05              | 23.10    |       |     |
|                           |         |           | HIGH       | QPSK  | 22.08 | 22.08 | 22.08              | 23.10    |       |     |
| 50                        |         |           | LOW        | QPSK  | 22.13 | 22.13 | 22.13              | 23.10    | 1.0   |     |
| 10                        |         |           | 1          | LOW   | Q16   | 21.86 | 21.86              | 21.86    | 23.10 | 1.0 |
|                           |         |           |            | MID   | Q16   | 21.89 | 21.89              | 21.89    | 23.10 |     |
|                           |         | HIGH      |            | Q16   | 21.82 | 21.82 | 21.82              | 23.10    |       |     |
|                           |         | 25        | LOW        | Q16   | 21.16 | 21.16 | 21.16              | 22.10    | 2.0   |     |
|                           |         |           | MID        | Q16   | 21.10 | 21.10 | 21.10              | 22.10    |       |     |
|                           |         |           | HIGH       | Q16   | 21.07 | 21.07 | 21.07              | 22.10    |       |     |
| 50                        |         | LOW       | Q16        | 21.07 | 21.07 | 21.07 | 22.10              | 2.0      |       |     |
| 10                        |         | 1         | LOW        | 64QAM | 20.81 | 20.81 | 20.81              | 22.10    | 2.0   |     |
|                           |         |           | MID        | 64QAM | 20.84 | 20.84 | 20.84              | 22.10    |       |     |
|                           |         |           | HIGH       | 64QAM | 20.85 | 20.85 | 20.85              | 22.10    |       |     |
|                           |         | 25        | LOW        | 64QAM | 20.24 | 20.24 | 20.24              | 21.10    | 3.0   |     |
|                           |         |           | MID        | 64QAM | 20.01 | 20.01 | 20.01              | 21.10    |       |     |
|                           |         |           | HIGH       | 64QAM | 20.15 | 20.15 | 20.15              | 21.10    |       |     |
|                           |         | 50        | LOW        | 64QAM | 20.13 | 20.13 | 20.13              | 21.10    | 3.0   |     |



| LTE B13-State1&2&3&4&5&6 -Ant.0 |         |           |            |       |       |       |                    |          |     |
|---------------------------------|---------|-----------|------------|-------|-------|-------|--------------------|----------|-----|
| Bandwidth (                     | RB Size | RB offset | Modulation | 23205 | 23230 | 23255 | Tune-up power(dBm) | MPR (dB) |     |
| 5                               | 1       | LOW       | QPSK       | 22.95 | 22.97 | 22.97 | 24.10              | 0.0      |     |
|                                 |         | MID       | QPSK       | 22.85 | 22.93 | 22.93 | 24.10              |          |     |
|                                 |         | HIGH      | QPSK       | 22.94 | 22.94 | 22.98 | 24.10              |          |     |
|                                 | 12      | LOW       | QPSK       | 21.92 | 22.05 | 22.17 | 23.10              | 1.0      |     |
|                                 |         | MID       | QPSK       | 22.11 | 22.04 | 21.98 | 23.10              |          |     |
|                                 |         | HIGH      | QPSK       | 22.12 | 22.04 | 21.94 | 23.10              |          |     |
|                                 | 25      | LOW       | QPSK       | 22.09 | 22.05 | 22.15 | 23.10              | 1.0      |     |
|                                 | 5       | 1         | LOW        | Q16   | 22.15 | 22.10 | 22.03              | 23.10    | 1.0 |
|                                 |         |           | MID        | Q16   | 22.09 | 22.10 | 22.03              | 23.10    |     |
| HIGH                            |         |           | Q16        | 22.09 | 22.11 | 22.09 | 23.10              |          |     |
| 12                              |         | LOW       | Q16        | 21.18 | 21.15 | 21.20 | 22.10              | 2.0      |     |
|                                 |         | MID       | Q16        | 21.25 | 21.11 | 21.25 | 22.10              |          |     |
|                                 |         | HIGH      | Q16        | 21.17 | 21.10 | 21.18 | 22.10              |          |     |
| 25                              |         | LOW       | Q16        | 21.24 | 21.12 | 21.14 | 22.10              | 2.0      |     |
| 5                               |         | 1         | LOW        | 64QAM | 21.23 | 21.24 | 20.95              | 22.10    | 2.0 |
|                                 |         |           | MID        | 64QAM | 21.02 | 21.19 | 21.15              | 22.10    |     |
|                                 | HIGH    |           | 64QAM      | 20.94 | 21.17 | 21.13 | 22.10              |          |     |
|                                 | 12      | LOW       | 64QAM      | 20.15 | 20.15 | 20.16 | 21.10              | 3.0      |     |
|                                 |         | MID       | 64QAM      | 20.15 | 20.26 | 20.13 | 21.10              |          |     |
|                                 |         | HIGH      | 64QAM      | 20.29 | 20.15 | 20.17 | 21.10              |          |     |
|                                 | 25      | LOW       | 64QAM      | 20.30 | 20.14 | 20.28 | 21.10              | 3.0      |     |
|                                 | 10      | 1         | LOW        | QPSK  | 22.86 | 22.86 | 22.86              | 24.10    | 0.0 |
|                                 |         |           | MID        | QPSK  | 22.89 | 22.89 | 22.89              | 24.10    |     |
| HIGH                            |         |           | QPSK       | 22.79 | 22.79 | 22.79 | 24.10              |          |     |
| 25                              |         | LOW       | QPSK       | 22.09 | 22.09 | 22.09 | 23.10              | 1.0      |     |
|                                 |         | MID       | QPSK       | 22.05 | 22.05 | 22.05 | 23.10              |          |     |
|                                 |         | HIGH      | QPSK       | 22.08 | 22.08 | 22.08 | 23.10              |          |     |
| 50                              |         | LOW       | QPSK       | 22.13 | 22.13 | 22.13 | 23.10              | 1.0      |     |
| 10                              |         | 1         | LOW        | Q16   | 21.86 | 21.86 | 21.86              | 23.10    | 1.0 |
|                                 |         |           | MID        | Q16   | 21.89 | 21.89 | 21.89              | 23.10    |     |
|                                 |         |           | HIGH       | Q16   | 21.82 | 21.82 | 21.82              | 23.10    |     |
|                                 |         | 25        | LOW        | Q16   | 21.16 | 21.16 | 21.16              | 22.10    | 2.0 |
|                                 |         |           | MID        | Q16   | 21.10 | 21.10 | 21.10              | 22.10    |     |
|                                 |         |           | HIGH       | Q16   | 21.07 | 21.07 | 21.07              | 22.10    |     |
| 50                              |         | LOW       | Q16        | 21.07 | 21.07 | 21.07 | 22.10              | 2.0      |     |
| 10                              |         | 1         | LOW        | 64QAM | 20.81 | 20.81 | 20.81              | 22.10    | 2.0 |
|                                 |         |           | MID        | 64QAM | 20.84 | 20.84 | 20.84              | 22.10    |     |
|                                 |         |           | HIGH       | 64QAM | 20.85 | 20.85 | 20.85              | 22.10    |     |
|                                 |         | 25        | LOW        | 64QAM | 20.24 | 20.24 | 20.24              | 21.10    | 3.0 |
|                                 |         |           | MID        | 64QAM | 20.01 | 20.01 | 20.01              | 21.10    |     |
|                                 |         |           | HIGH       | 64QAM | 20.15 | 20.15 | 20.15              | 21.10    |     |
|                                 |         | 50        | LOW        | 64QAM | 20.13 | 20.13 | 20.13              | 21.10    | 3.0 |

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### 8.3.7 LTE Band17 Output Power

| LTE B17-Full Power -Ant.1 |         |           |            |       |       |       |                    |       |
|---------------------------|---------|-----------|------------|-------|-------|-------|--------------------|-------|
| Bandwidth (               | RB Size | RB offset | Modulation | 23755 | 23790 | 23825 | Tune-up power(dBm) |       |
| 5                         | 1       | LOW       | QPSK       | 23.16 | 22.97 | 22.92 | 24.20              |       |
|                           |         | MID       | QPSK       | 23.17 | 22.98 | 22.88 | 24.20              |       |
|                           |         | HIGH      | QPSK       | 23.12 | 22.96 | 22.96 | 24.20              |       |
|                           | 12      | LOW       | QPSK       | 21.99 | 21.91 | 21.90 | 23.20              |       |
|                           |         | MID       | QPSK       | 21.95 | 21.90 | 21.87 | 23.20              |       |
|                           |         | HIGH      | QPSK       | 21.96 | 21.93 | 21.75 | 23.20              |       |
|                           | 25      | LOW       | QPSK       | 21.96 | 21.91 | 21.81 | 23.20              |       |
|                           | 5       | 1         | LOW        | Q16   | 22.28 | 22.52 | 21.98              | 23.20 |
|                           |         |           | MID        | Q16   | 22.24 | 22.48 | 21.86              | 23.20 |
| HIGH                      |         |           | Q16        | 22.23 | 22.52 | 21.92 | 23.20              |       |
| 12                        |         | LOW       | Q16        | 21.02 | 21.01 | 20.91 | 22.20              |       |
|                           |         | MID       | Q16        | 21.00 | 21.00 | 20.92 | 22.20              |       |
|                           |         | HIGH      | Q16        | 20.98 | 20.99 | 20.76 | 22.20              |       |
| 25                        |         | LOW       | Q16        | 21.00 | 20.98 | 20.76 | 22.20              |       |
| 5                         |         | 1         | LOW        | 64QAM | 21.42 | 21.66 | 20.88              | 22.20 |
|                           |         |           | MID        | 64QAM | 21.11 | 21.62 | 20.86              | 22.20 |
|                           | HIGH    |           | 64QAM      | 21.08 | 21.45 | 20.97 | 22.20              |       |
|                           | 12      | LOW       | 64QAM      | 20.00 | 19.92 | 19.96 | 21.20              |       |
|                           |         | MID       | 64QAM      | 20.04 | 20.15 | 19.81 | 21.20              |       |
|                           |         | HIGH      | 64QAM      | 20.00 | 19.99 | 19.68 | 21.20              |       |
|                           | 25      | LOW       | 64QAM      | 19.88 | 20.09 | 19.89 | 21.20              |       |
|                           | 10      | 1         | LOW        | QPSK  | 22.95 | 22.90 | 22.90              | 24.20 |
|                           |         |           | MID        | QPSK  | 22.98 | 22.98 | 22.94              | 24.20 |
| HIGH                      |         |           | QPSK       | 22.91 | 22.86 | 22.89 | 24.20              |       |
| 25                        |         | LOW       | QPSK       | 21.93 | 21.92 | 21.88 | 23.20              |       |
|                           |         | MID       | QPSK       | 21.92 | 21.91 | 21.90 | 23.20              |       |
|                           |         | HIGH      | QPSK       | 21.97 | 21.90 | 21.83 | 23.20              |       |
| 50                        |         | LOW       | QPSK       | 21.95 | 21.92 | 21.91 | 23.20              |       |
| 10                        |         | 1         | LOW        | Q16   | 21.85 | 22.29 | 21.94              | 23.20 |
|                           |         |           | MID        | Q16   | 21.89 | 22.35 | 22.01              | 23.20 |
|                           | HIGH    |           | Q16        | 21.78 | 22.23 | 21.83 | 23.20              |       |
|                           | 25      | LOW       | Q16        | 20.95 | 20.94 | 20.98 | 22.20              |       |
|                           |         | MID       | Q16        | 20.95 | 20.95 | 21.01 | 22.20              |       |
|                           |         | HIGH      | Q16        | 21.00 | 20.94 | 20.90 | 22.20              |       |
|                           | 50      | LOW       | Q16        | 20.93 | 20.94 | 20.90 | 22.20              |       |
|                           | 10      | 1         | LOW        | 64QAM | 20.81 | 21.33 | 20.83              | 22.20 |
|                           |         |           | MID        | 64QAM | 21.00 | 21.41 | 20.87              | 22.20 |
| HIGH                      |         |           | 64QAM      | 20.67 | 21.08 | 20.70 | 22.20              |       |
| 25                        |         | LOW       | 64QAM      | 20.08 | 20.00 | 19.86 | 21.20              |       |
|                           |         | MID       | 64QAM      | 19.89 | 19.96 | 19.86 | 21.20              |       |
|                           |         | HIGH      | 64QAM      | 19.99 | 20.07 | 20.03 | 21.20              |       |
| 50                        |         | LOW       | 64QAM      | 20.01 | 20.00 | 19.86 | 21.20              |       |

| LTE B17-State1&2&3&4&5&6 -Ant.1 |         |           |            |       |       |       |                    |       |       |
|---------------------------------|---------|-----------|------------|-------|-------|-------|--------------------|-------|-------|
| Bandwidth (                     | RB Size | RB offset | Modulation | 23755 | 23790 | 23825 | Tune-up power(dBm) |       |       |
| 5                               | 1       | LOW       | QPSK       | 23.16 | 22.97 | 22.92 | 24.20              |       |       |
|                                 |         | MID       | QPSK       | 23.17 | 22.98 | 22.88 | 24.20              |       |       |
|                                 |         | HIGH      | QPSK       | 23.12 | 22.96 | 22.96 | 24.20              |       |       |
|                                 | 12      | LOW       | QPSK       | 21.99 | 21.91 | 21.90 | 23.20              |       |       |
|                                 |         | MID       | QPSK       | 21.95 | 21.90 | 21.87 | 23.20              |       |       |
|                                 |         | HIGH      | QPSK       | 21.96 | 21.93 | 21.75 | 23.20              |       |       |
|                                 | 25      | LOW       | QPSK       | 21.96 | 21.91 | 21.81 | 23.20              |       |       |
|                                 | 5       | 1         | LOW        | Q16   | 22.28 | 22.52 | 21.98              | 23.20 |       |
|                                 |         |           | MID        | Q16   | 22.24 | 22.48 | 21.86              | 23.20 |       |
| HIGH                            |         |           | Q16        | 22.23 | 22.52 | 21.92 | 23.20              |       |       |
| 12                              |         | LOW       | Q16        | 21.02 | 21.01 | 20.91 | 22.20              |       |       |
|                                 |         | MID       | Q16        | 21.00 | 21.00 | 20.92 | 22.20              |       |       |
|                                 |         | HIGH      | Q16        | 20.98 | 20.99 | 20.76 | 22.20              |       |       |
| 25                              |         | LOW       | Q16        | 21.00 | 20.98 | 20.76 | 22.20              |       |       |
| 5                               |         | 1         | LOW        | 64QAM | 21.42 | 21.66 | 20.88              | 22.20 |       |
|                                 |         |           | MID        | 64QAM | 21.11 | 21.62 | 20.86              | 22.20 |       |
|                                 | HIGH    |           | 64QAM      | 21.08 | 21.45 | 20.97 | 22.20              |       |       |
|                                 | 12      | LOW       | 64QAM      | 20.00 | 19.92 | 19.96 | 21.20              |       |       |
|                                 |         | MID       | 64QAM      | 20.04 | 20.15 | 19.81 | 21.20              |       |       |
|                                 |         | HIGH      | 64QAM      | 20.00 | 19.99 | 19.68 | 21.20              |       |       |
|                                 | 25      | LOW       | 64QAM      | 19.88 | 20.09 | 19.89 | 21.20              |       |       |
|                                 | 10      | 10        | 1          | LOW   | QPSK  | 22.99 | 22.90              | 22.90 | 24.20 |
|                                 |         |           |            | MID   | QPSK  | 22.95 | 22.98              | 22.94 | 24.20 |
| HIGH                            |         |           |            | QPSK  | 22.91 | 22.86 | 22.89              | 24.20 |       |
| 25                              |         |           | LOW        | QPSK  | 21.93 | 21.92 | 21.88              | 23.20 |       |
|                                 |         |           | MID        | QPSK  | 21.97 | 21.91 | 21.90              | 23.20 |       |
|                                 |         |           | HIGH       | QPSK  | 21.92 | 21.90 | 21.83              | 23.20 |       |
| 50                              |         | LOW       | QPSK       | 21.95 | 21.92 | 21.91 | 23.20              |       |       |
| 10                              |         | 1         | LOW        | Q16   | 21.85 | 22.29 | 21.94              | 23.20 |       |
|                                 |         |           | MID        | Q16   | 21.89 | 22.35 | 22.01              | 23.20 |       |
|                                 |         |           | HIGH       | Q16   | 21.78 | 22.23 | 21.83              | 23.20 |       |
|                                 |         | 25        | LOW        | Q16   | 20.95 | 20.94 | 20.98              | 22.20 |       |
|                                 |         |           | MID        | Q16   | 20.95 | 20.95 | 21.01              | 22.20 |       |
|                                 |         |           | HIGH       | Q16   | 21.00 | 20.94 | 20.90              | 22.20 |       |
| 50                              |         | LOW       | Q16        | 20.93 | 20.94 | 20.90 | 22.20              |       |       |
| 10                              |         | 1         | LOW        | 64QAM | 20.81 | 21.33 | 20.83              | 22.20 |       |
|                                 | MID     |           | 64QAM      | 21.00 | 21.41 | 20.87 | 22.20              |       |       |
|                                 | HIGH    |           | 64QAM      | 20.67 | 21.08 | 20.70 | 22.20              |       |       |
|                                 | 25      | LOW       | 64QAM      | 20.08 | 20.00 | 19.86 | 21.20              |       |       |
|                                 |         | MID       | 64QAM      | 19.89 | 19.96 | 19.86 | 21.20              |       |       |
|                                 |         | HIGH      | 64QAM      | 19.99 | 20.07 | 20.03 | 21.20              |       |       |
|                                 | 50      | LOW       | 64QAM      | 20.01 | 20.00 | 19.86 | 21.20              |       |       |

### 8.3.7 LTE Band17 Output Power

| LTE B17-Full Power -Ant.0 |         |           |            |       |       |       |                    |       |
|---------------------------|---------|-----------|------------|-------|-------|-------|--------------------|-------|
| Bandwidth (               | RB Size | RB offset | Modulation | 23755 | 23790 | 23825 | Tune-up power(dBm) |       |
| 5                         | 1       | LOW       | QPSK       | 23.27 | 23.09 | 23.03 | 24.50              |       |
|                           |         | MID       | QPSK       | 23.26 | 23.13 | 23.00 | 24.50              |       |
|                           |         | HIGH      | QPSK       | 23.27 | 23.08 | 23.08 | 24.50              |       |
|                           | 12      | LOW       | QPSK       | 22.11 | 22.03 | 22.01 | 23.50              |       |
|                           |         | MID       | QPSK       | 22.04 | 22.02 | 21.98 | 23.50              |       |
|                           |         | HIGH      | QPSK       | 22.04 | 22.00 | 21.87 | 23.50              |       |
|                           | 25      | LOW       | QPSK       | 22.06 | 22.04 | 21.93 | 23.50              |       |
|                           | 5       | 1         | LOW        | Q16   | 22.39 | 22.63 | 22.07              | 23.50 |
|                           |         |           | MID        | Q16   | 22.36 | 22.61 | 21.96              | 23.50 |
| HIGH                      |         |           | Q16        | 22.35 | 22.63 | 22.03 | 23.50              |       |
| 12                        |         | LOW       | Q16        | 21.14 | 21.13 | 21.03 | 22.50              |       |
|                           |         | MID       | Q16        | 21.10 | 21.15 | 21.04 | 22.50              |       |
|                           |         | HIGH      | Q16        | 21.09 | 21.13 | 20.86 | 22.50              |       |
| 25                        |         | LOW       | Q16        | 21.12 | 21.07 | 20.88 | 22.50              |       |
| 5                         |         | 1         | LOW        | 64QAM | 21.29 | 21.76 | 21.11              | 22.50 |
|                           |         |           | MID        | 64QAM | 21.32 | 21.65 | 21.01              | 22.50 |
|                           | HIGH    |           | 64QAM      | 21.44 | 21.65 | 21.04 | 22.50              |       |
|                           | 12      | LOW       | 64QAM      | 20.22 | 20.01 | 20.01 | 21.50              |       |
|                           |         | MID       | 64QAM      | 19.96 | 20.10 | 20.03 | 21.50              |       |
|                           |         | HIGH      | 64QAM      | 20.19 | 20.00 | 19.74 | 21.50              |       |
|                           | 25      | LOW       | 64QAM      | 20.23 | 19.95 | 19.97 | 21.50              |       |
| Bandwidth (               | RB Size | RB offset | Modulation | 23780 | 23790 | 23800 | Tune-up power(dBm) |       |
| 10                        | 1       | LOW       | QPSK       | 23.08 | 23.00 | 23.02 | 24.50              |       |
|                           |         | MID       | QPSK       | 23.10 | 23.08 | 23.06 | 24.50              |       |
|                           |         | HIGH      | QPSK       | 23.00 | 22.98 | 23.01 | 24.50              |       |
|                           | 25      | LOW       | QPSK       | 22.06 | 22.02 | 22.01 | 23.50              |       |
|                           |         | MID       | QPSK       | 22.04 | 22.01 | 22.03 | 23.50              |       |
|                           |         | HIGH      | QPSK       | 22.08 | 22.05 | 21.94 | 23.50              |       |
| 50                        | LOW     | QPSK      | 22.09      | 22.04 | 22.03 | 23.50 |                    |       |
| 10                        | 1       | LOW       | Q16        | 21.93 | 22.38 | 22.06 | 23.50              |       |
|                           |         | MID       | Q16        | 21.99 | 22.43 | 22.11 | 23.50              |       |
|                           |         | HIGH      | Q16        | 21.90 | 22.34 | 21.95 | 23.50              |       |
|                           | 25      | LOW       | Q16        | 21.07 | 21.07 | 21.11 | 22.50              |       |
|                           |         | MID       | Q16        | 21.07 | 21.07 | 21.12 | 22.50              |       |
|                           |         | HIGH      | Q16        | 21.11 | 21.07 | 21.03 | 22.50              |       |
|                           | 50      | LOW       | Q16        | 21.07 | 21.06 | 21.03 | 22.50              |       |
|                           | 10      | 1         | LOW        | 64QAM | 20.98 | 21.24 | 21.19              | 22.50 |
|                           |         |           | MID        | 64QAM | 21.04 | 21.53 | 21.13              | 22.50 |
| HIGH                      |         |           | 64QAM      | 20.87 | 21.37 | 20.82 | 22.50              |       |
| 25                        |         | LOW       | 64QAM      | 20.11 | 20.01 | 20.21 | 21.50              |       |
|                           |         | MID       | 64QAM      | 20.14 | 20.11 | 20.05 | 21.50              |       |
|                           |         | HIGH      | 64QAM      | 20.05 | 20.14 | 20.13 | 21.50              |       |
| 50                        | LOW     | 64QAM     | 20.18      | 20.10 | 19.94 | 21.50 |                    |       |

| LTE B17-State1&2&3&4&5&6 -Ant.0 |             |           |            |            |       |       |                    |                    |
|---------------------------------|-------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (                     | RB Size     | RB offset | Modulation | 23755      | 23790 | 23825 | Tune-up power(dBm) |                    |
| 5                               | 1           | LOW       | QPSK       | 23.27      | 23.09 | 23.03 | 24.50              |                    |
|                                 |             | MID       | QPSK       | 23.26      | 23.13 | 23.00 | 24.50              |                    |
|                                 |             | HIGH      | QPSK       | 23.27      | 23.08 | 23.08 | 24.50              |                    |
|                                 | 12          | LOW       | QPSK       | 22.11      | 22.03 | 22.01 | 23.50              |                    |
|                                 |             | MID       | QPSK       | 22.04      | 22.02 | 21.98 | 23.50              |                    |
|                                 |             | HIGH      | QPSK       | 22.04      | 22.00 | 21.87 | 23.50              |                    |
|                                 | 25          | LOW       | QPSK       | 22.06      | 22.04 | 21.93 | 23.50              |                    |
|                                 | 5           | 1         | LOW        | Q16        | 22.39 | 22.63 | 22.07              | 23.50              |
|                                 |             |           | MID        | Q16        | 22.36 | 22.61 | 21.96              | 23.50              |
| HIGH                            |             |           | Q16        | 22.35      | 22.63 | 22.03 | 23.50              |                    |
| 12                              |             | LOW       | Q16        | 21.14      | 21.13 | 21.03 | 22.50              |                    |
|                                 |             | MID       | Q16        | 21.10      | 21.15 | 21.04 | 22.50              |                    |
|                                 |             | HIGH      | Q16        | 21.09      | 21.13 | 20.86 | 22.50              |                    |
| 25                              |             | LOW       | Q16        | 21.12      | 21.07 | 20.88 | 22.50              |                    |
| 5                               |             | 1         | LOW        | 64QAM      | 21.29 | 21.76 | 21.11              | 22.50              |
|                                 |             |           | MID        | 64QAM      | 21.32 | 21.65 | 21.01              | 22.50              |
|                                 | HIGH        |           | 64QAM      | 21.44      | 21.65 | 21.04 | 22.50              |                    |
|                                 | 12          | LOW       | 64QAM      | 20.22      | 20.01 | 20.01 | 21.50              |                    |
|                                 |             | MID       | 64QAM      | 19.96      | 20.10 | 20.03 | 21.50              |                    |
|                                 |             | HIGH      | 64QAM      | 20.19      | 20.00 | 19.74 | 21.50              |                    |
|                                 | 25          | LOW       | 64QAM      | 20.23      | 19.95 | 19.97 | 21.50              |                    |
|                                 | Bandwidth ( | RB Size   | RB offset  | Modulation | 23780 | 23790 | 23800              | Tune-up power(dBm) |
|                                 | 10          | 1         | LOW        | QPSK       | 23.10 | 23.00 | 23.02              | 24.50              |
| MID                             |             |           | QPSK       | 23.08      | 23.08 | 23.06 | 24.50              |                    |
| HIGH                            |             |           | QPSK       | 23.00      | 22.98 | 23.01 | 24.50              |                    |
| 25                              |             | LOW       | QPSK       | 22.06      | 22.02 | 22.01 | 23.50              |                    |
|                                 |             | MID       | QPSK       | 22.08      | 22.01 | 22.03 | 23.50              |                    |
|                                 |             | HIGH      | QPSK       | 22.04      | 22.05 | 21.94 | 23.50              |                    |
| 50                              |             | LOW       | QPSK       | 22.09      | 22.04 | 22.03 | 23.50              |                    |
| 10                              |             | 1         | LOW        | Q16        | 21.93 | 22.38 | 22.06              | 23.50              |
|                                 |             |           | MID        | Q16        | 21.99 | 22.43 | 22.11              | 23.50              |
|                                 | HIGH        |           | Q16        | 21.90      | 22.34 | 21.95 | 23.50              |                    |
|                                 | 25          | LOW       | Q16        | 21.07      | 21.07 | 21.11 | 22.50              |                    |
|                                 |             | MID       | Q16        | 21.07      | 21.07 | 21.12 | 22.50              |                    |
|                                 |             | HIGH      | Q16        | 21.11      | 21.07 | 21.03 | 22.50              |                    |
|                                 | 50          | LOW       | Q16        | 21.07      | 21.06 | 21.03 | 22.50              |                    |
|                                 | 10          | 1         | LOW        | 64QAM      | 20.98 | 21.24 | 21.19              | 22.50              |
|                                 |             |           | MID        | 64QAM      | 21.04 | 21.53 | 21.13              | 22.50              |
| HIGH                            |             |           | 64QAM      | 20.87      | 21.37 | 20.82 | 22.50              |                    |
| 25                              |             | LOW       | 64QAM      | 20.11      | 20.01 | 20.21 | 21.50              |                    |
|                                 |             | MID       | 64QAM      | 20.14      | 20.11 | 20.05 | 21.50              |                    |
|                                 |             | HIGH      | 64QAM      | 20.05      | 20.14 | 20.13 | 21.50              |                    |
| 50                              |             | LOW       | 64QAM      | 20.18      | 20.10 | 19.94 | 21.50              |                    |

### 8.3.8 LTE Band26 Output Power

BL-SZ2320168-701

| LTE B26-Full Power -Ant.1 |                 |           |            |            |       |       |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 26697      | 26865 | 27033 | Tune-up power(dBm) |                    |
| 1.4                       | 1               | LOW       | QPSK       | 23.08      | 23.12 | 23.03 | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.11      | 23.11 | 23.05 | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.11      | 23.13 | 23.00 | 24.00              |                    |
|                           | 3               | LOW       | QPSK       | 23.19      | 23.15 | 23.17 | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.23      | 23.17 | 23.22 | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.25      | 23.16 | 23.16 | 24.00              |                    |
|                           | 6               | LOW       | QPSK       | 22.23      | 22.21 | 22.13 | 23.00              |                    |
|                           | 1.4             | 1         | LOW        | Q16        | 22.28 | 22.61 | 22.11              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.34 | 22.57 | 22.06              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.35      | 22.58 | 22.05 | 23.00              |                    |
| 3                         |                 | LOW       | Q16        | 22.29      | 22.42 | 22.24 | 23.00              |                    |
|                           |                 | MID       | Q16        | 22.30      | 22.39 | 22.25 | 23.00              |                    |
|                           |                 | HIGH      | Q16        | 22.34      | 22.39 | 22.23 | 23.00              |                    |
| 6                         |                 | LOW       | Q16        | 21.37      | 21.04 | 21.27 | 22.00              |                    |
| 1.4                       |                 | 1         | LOW        | 64QAM      | 21.32 | 21.65 | 21.15              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.47 | 21.52 | 21.18              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.30      | 21.51 | 21.15 | 22.00              |                    |
|                           | 3               | LOW       | 64QAM      | 21.15      | 21.44 | 21.26 | 22.00              |                    |
|                           |                 | MID       | 64QAM      | 21.27      | 21.54 | 21.33 | 22.00              |                    |
|                           |                 | HIGH      | 64QAM      | 21.49      | 21.45 | 21.28 | 22.00              |                    |
|                           | 6               | LOW       | 64QAM      | 20.34      | 20.04 | 20.21 | 21.00              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
|                           | 3               | 1         | LOW        | QPSK       | 23.02 | 23.12 | 23.19              | 24.00              |
| MID                       |                 |           | QPSK       | 23.21      | 23.33 | 23.20 | 24.00              |                    |
| HIGH                      |                 |           | QPSK       | 23.20      | 22.96 | 22.95 | 24.00              |                    |
| 8                         |                 | LOW       | QPSK       | 21.98      | 22.30 | 22.10 | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.25      | 22.22 | 22.08 | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.13      | 22.16 | 22.03 | 23.00              |                    |
| 15                        |                 | LOW       | QPSK       | 22.23      | 22.32 | 22.26 | 23.00              |                    |
| 3                         |                 | 1         | LOW        | Q16        | 22.18 | 22.50 | 22.56              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.21 | 22.47 | 22.33              | 23.00              |
|                           | HIGH            |           | Q16        | 21.94      | 22.43 | 22.54 | 23.00              |                    |
|                           | 8               | LOW       | Q16        | 21.20      | 21.19 | 21.09 | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.34      | 21.10 | 21.14 | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.28      | 21.40 | 21.09 | 22.00              |                    |
|                           | 15              | LOW       | Q16        | 21.04      | 21.09 | 20.99 | 22.00              |                    |
|                           | 3               | 1         | LOW        | 64QAM      | 21.08 | 21.21 | 21.63              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.15 | 21.37 | 21.67              | 22.00              |
| HIGH                      |                 |           | 64QAM      | 20.93      | 21.56 | 21.51 | 22.00              |                    |
| 8                         |                 | LOW       | 64QAM      | 20.20      | 20.12 | 20.05 | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.30      | 20.15 | 20.04 | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.09      | 20.08 | 20.30 | 21.00              |                    |
| 15                        |                 | LOW       | 64QAM      | 20.13      | 20.12 | 20.18 | 21.00              |                    |
| Bandwidth (MHz)           |                 | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
| 5                         |                 | 1         | LOW        | QPSK       | 23.19 | 23.24 | 23.10              | 24.00              |
|                           | MID             |           | QPSK       | 23.31      | 23.10 | 23.12 | 24.00              |                    |
|                           | HIGH            |           | QPSK       | 23.18      | 23.07 | 23.18 | 24.00              |                    |
|                           | 12              | LOW       | QPSK       | 22.09      | 22.32 | 22.05 | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.16      | 22.18 | 22.15 | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.15      | 22.28 | 22.23 | 23.00              |                    |
|                           | 25              | LOW       | QPSK       | 22.03      | 22.25 | 22.05 | 23.00              |                    |
|                           | 5               | 1         | LOW        | Q16        | 22.05 | 22.57 | 22.66              | 23.00              |
|                           |                 |           | MID        | Q16        | 21.97 | 22.63 | 22.32              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.17      | 22.44 | 22.38 | 23.00              |                    |
| 12                        |                 | LOW       | Q16        | 21.25      | 21.12 | 21.15 | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.05      | 21.19 | 21.14 | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.03      | 21.19 | 21.20 | 22.00              |                    |
| 25                        |                 | LOW       | Q16        | 21.01      | 21.24 | 21.19 | 22.00              |                    |
| 5                         |                 | 1         | LOW        | 64QAM      | 21.10 | 21.36 | 21.67              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.09 | 21.40 | 21.61              | 22.00              |
|                           | HIGH            |           | 64QAM      | 20.92      | 21.56 | 21.42 | 22.00              |                    |
|                           | 12              | LOW       | 64QAM      | 20.22      | 20.32 | 20.29 | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.19      | 20.17 | 20.30 | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.11      | 20.27 | 20.12 | 21.00              |                    |
|                           | 25              | LOW       | 64QAM      | 20.02      | 20.03 | 20.12 | 21.00              |                    |

| LTE B26-Full Power -Ant.1 |                 |           |            |            |       |       |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 26740      | 26865 | 26990 | Tune-up power(dBm) |                    |
| 10                        | 1               | LOW       | QPSK       | 23.09      | 23.20 | 23.05 | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.10      | 23.30 | 23.05 | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.25      | 23.16 | 22.89 | 24.00              |                    |
|                           | 25              | LOW       | QPSK       | 22.18      | 22.15 | 22.22 | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.18      | 22.30 | 22.17 | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.08      | 22.32 | 22.09 | 23.00              |                    |
|                           | 50              | LOW       | QPSK       | 22.24      | 22.39 | 22.18 | 23.00              |                    |
|                           | 10              | 1         | LOW        | Q16        | 22.06 | 22.44 | 22.66              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.20 | 22.53 | 22.56              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.13      | 22.62 | 22.32 | 23.00              |                    |
| 25                        |                 | LOW       | Q16        | 21.26      | 21.14 | 21.02 | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.16      | 21.34 | 21.16 | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.05      | 21.46 | 21.08 | 22.00              |                    |
| 50                        |                 | LOW       | Q16        | 21.04      | 21.23 | 21.10 | 22.00              |                    |
| 10                        |                 | 1         | LOW        | 64QAM      | 20.93 | 21.19 | 21.71              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.13 | 21.52 | 21.52              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.03      | 21.41 | 21.51 | 22.00              |                    |
|                           | 25              | LOW       | 64QAM      | 20.28      | 20.33 | 20.03 | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.42      | 20.38 | 20.13 | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.08      | 20.21 | 20.40 | 21.00              |                    |
|                           | 50              | LOW       | 64QAM      | 20.09      | 19.90 | 19.95 | 21.00              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26765 | 26865 | 26965              | Tune-up power(dBm) |
|                           | 15              | 1         | LOW        | QPSK       | 23.17 | 23.11 | 23.06              | 24.00              |
| MID                       |                 |           | QPSK       | 23.23      | 23.19 | 23.10 | 24.00              |                    |
| HIGH                      |                 |           | QPSK       | 23.20      | 23.09 | 23.03 | 24.00              |                    |
| 36                        |                 | LOW       | QPSK       | 22.13      | 22.18 | 22.12 | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.17      | 22.21 | 22.15 | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.11      | 22.22 | 22.13 | 23.00              |                    |
| 75                        |                 | LOW       | QPSK       | 22.14      | 22.25 | 22.13 | 23.00              |                    |
| 15                        |                 | 1         | LOW        | Q16        | 22.05 | 22.47 | 22.52              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.11 | 22.59 | 22.47              | 23.00              |
|                           | HIGH            |           | Q16        | 22.07      | 22.50 | 22.39 | 23.00              |                    |
|                           | 36              | LOW       | Q16        | 21.14      | 21.23 | 21.13 | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.20      | 21.25 | 21.16 | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.13      | 21.31 | 21.11 | 22.00              |                    |
|                           | 75              | LOW       | Q16        | 21.13      | 21.18 | 21.12 | 22.00              |                    |
|                           | 15              | 1         | LOW        | 64QAM      | 21.04 | 21.32 | 21.61              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.01 | 21.44 | 21.53              | 22.00              |
| HIGH                      |                 |           | 64QAM      | 21.05      | 21.53 | 21.53 | 22.00              |                    |
| 36                        |                 | LOW       | 64QAM      | 20.14      | 20.22 | 20.15 | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.28      | 20.27 | 20.16 | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.22      | 20.22 | 20.25 | 21.00              |                    |
| 75                        |                 | LOW       | 64QAM      | 20.04      | 20.04 | 20.03 | 21.00              |                    |

| LTE B26-State1&2&3&4&5&6 -Ant.1 |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 26697      | 26865 | 27033 | Tune-up power(dBm) |                    |
| 1.4                             | 1               | LOW       | QPSK       | 23.08      | 23.12 | 23.03 | 24.00              |                    |
|                                 |                 | MID       | QPSK       | 23.11      | 23.11 | 23.05 | 24.00              |                    |
|                                 |                 | HIGH      | QPSK       | 23.11      | 23.13 | 23.00 | 24.00              |                    |
|                                 | 3               | LOW       | QPSK       | 23.19      | 23.15 | 23.17 | 24.00              |                    |
|                                 |                 | MID       | QPSK       | 23.23      | 23.17 | 23.22 | 24.00              |                    |
|                                 |                 | HIGH      | QPSK       | 23.25      | 23.16 | 23.16 | 24.00              |                    |
|                                 | 6               | LOW       | QPSK       | 22.23      | 22.21 | 22.13 | 23.00              |                    |
|                                 | 1.4             | 1         | LOW        | Q16        | 22.28 | 22.61 | 22.11              | 23.00              |
|                                 |                 |           | MID        | Q16        | 22.34 | 22.57 | 22.06              | 23.00              |
| HIGH                            |                 |           | Q16        | 22.35      | 22.58 | 22.05 | 23.00              |                    |
| 3                               |                 | LOW       | Q16        | 22.29      | 22.42 | 22.24 | 23.00              |                    |
|                                 |                 | MID       | Q16        | 22.30      | 22.39 | 22.25 | 23.00              |                    |
|                                 |                 | HIGH      | Q16        | 22.34      | 22.39 | 22.23 | 23.00              |                    |
| 6                               |                 | LOW       | Q16        | 21.37      | 21.04 | 21.27 | 22.00              |                    |
| 1.4                             |                 | 1         | LOW        | 64QAM      | 21.32 | 21.65 | 21.15              | 22.00              |
|                                 |                 |           | MID        | 64QAM      | 21.47 | 21.52 | 21.18              | 22.00              |
|                                 | HIGH            |           | 64QAM      | 21.30      | 21.51 | 21.15 | 22.00              |                    |
|                                 | 3               | LOW       | 64QAM      | 21.15      | 21.44 | 21.26 | 22.00              |                    |
|                                 |                 | MID       | 64QAM      | 21.27      | 21.54 | 21.33 | 22.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 21.49      | 21.45 | 21.28 | 22.00              |                    |
|                                 | 6               | LOW       | 64QAM      | 20.34      | 20.04 | 20.21 | 21.00              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
|                                 | 3               | 1         | LOW        | QPSK       | 23.02 | 23.12 | 23.19              | 24.00              |
| MID                             |                 |           | QPSK       | 23.21      | 23.33 | 23.20 | 24.00              |                    |
| HIGH                            |                 |           | QPSK       | 23.20      | 22.96 | 22.95 | 24.00              |                    |
| 8                               |                 | LOW       | QPSK       | 21.98      | 22.30 | 22.10 | 23.00              |                    |
|                                 |                 | MID       | QPSK       | 22.25      | 22.22 | 22.08 | 23.00              |                    |
|                                 |                 | HIGH      | QPSK       | 22.13      | 22.16 | 22.03 | 23.00              |                    |
| 15                              |                 | LOW       | QPSK       | 22.23      | 22.32 | 22.26 | 23.00              |                    |
| 3                               |                 | 1         | LOW        | Q16        | 22.18 | 22.50 | 22.56              | 23.00              |
|                                 |                 |           | MID        | Q16        | 22.21 | 22.47 | 22.33              | 23.00              |
|                                 | HIGH            |           | Q16        | 21.94      | 22.43 | 22.54 | 23.00              |                    |
|                                 | 8               | LOW       | Q16        | 21.20      | 21.19 | 21.09 | 22.00              |                    |
|                                 |                 | MID       | Q16        | 21.34      | 21.10 | 21.14 | 22.00              |                    |
|                                 |                 | HIGH      | Q16        | 21.28      | 21.40 | 21.09 | 22.00              |                    |
|                                 | 15              | LOW       | Q16        | 21.04      | 21.09 | 20.99 | 22.00              |                    |
|                                 | 3               | 1         | LOW        | 64QAM      | 21.08 | 21.21 | 21.63              | 22.00              |
|                                 |                 |           | MID        | 64QAM      | 21.15 | 21.37 | 21.67              | 22.00              |
| HIGH                            |                 |           | 64QAM      | 20.93      | 21.56 | 21.51 | 22.00              |                    |
| 8                               |                 | LOW       | 64QAM      | 20.20      | 20.12 | 20.05 | 21.00              |                    |
|                                 |                 | MID       | 64QAM      | 20.30      | 20.15 | 20.04 | 21.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 20.09      | 20.08 | 20.30 | 21.00              |                    |
| 15                              |                 | LOW       | 64QAM      | 20.13      | 20.12 | 20.18 | 21.00              |                    |
| Bandwidth (MHz)                 |                 | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
| 5                               |                 | 1         | LOW        | QPSK       | 23.19 | 23.24 | 23.10              | 24.00              |
|                                 | MID             |           | QPSK       | 23.31      | 23.10 | 23.12 | 24.00              |                    |
|                                 | HIGH            |           | QPSK       | 23.18      | 23.07 | 23.18 | 24.00              |                    |
|                                 | 12              | LOW       | QPSK       | 22.09      | 22.32 | 22.05 | 23.00              |                    |
|                                 |                 | MID       | QPSK       | 22.16      | 22.18 | 22.15 | 23.00              |                    |
|                                 |                 | HIGH      | QPSK       | 22.15      | 22.28 | 22.23 | 23.00              |                    |
|                                 | 25              | LOW       | QPSK       | 22.03      | 22.25 | 22.05 | 23.00              |                    |
|                                 | 5               | 1         | LOW        | Q16        | 22.05 | 22.57 | 22.66              | 23.00              |
|                                 |                 |           | MID        | Q16        | 21.97 | 22.63 | 22.32              | 23.00              |
| HIGH                            |                 |           | Q16        | 22.17      | 22.44 | 22.38 | 23.00              |                    |
| 12                              |                 | LOW       | Q16        | 21.25      | 21.12 | 21.15 | 22.00              |                    |
|                                 |                 | MID       | Q16        | 21.05      | 21.19 | 21.14 | 22.00              |                    |
|                                 |                 | HIGH      | Q16        | 21.03      | 21.19 | 21.20 | 22.00              |                    |
| 25                              |                 | LOW       | Q16        | 21.01      | 21.24 | 21.19 | 22.00              |                    |
| 5                               |                 | 1         | LOW        | 64QAM      | 21.10 | 21.36 | 21.67              | 22.00              |
|                                 |                 |           | MID        | 64QAM      | 21.09 | 21.40 | 21.61              | 22.00              |
|                                 | HIGH            |           | 64QAM      | 20.92      | 21.56 | 21.42 | 22.00              |                    |
|                                 | 12              | LOW       | 64QAM      | 20.22      | 20.32 | 20.29 | 21.00              |                    |
|                                 |                 | MID       | 64QAM      | 20.19      | 20.17 | 20.30 | 21.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 20.11      | 20.27 | 20.12 | 21.00              |                    |
|                                 | 25              | LOW       | 64QAM      | 20.02      | 20.03 | 20.12 | 21.00              |                    |



| LTE B26-State1&2&3&4&5&6 -Ant.1 |         |           |            |       |       |       |                    |
|---------------------------------|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (MHz)                 | RB Size | RB offset | Modulation | 26740 | 26865 | 26990 | Tune-up power(dBm) |
| 10                              | 1       | LOW       | QPSK       | 23.09 | 23.20 | 23.05 | 24.00              |
|                                 |         | MID       | QPSK       | 23.10 | 23.30 | 23.05 | 24.00              |
|                                 |         | HIGH      | QPSK       | 23.25 | 23.16 | 22.89 | 24.00              |
|                                 | 25      | LOW       | QPSK       | 22.18 | 22.15 | 22.22 | 23.00              |
|                                 |         | MID       | QPSK       | 22.18 | 22.30 | 22.17 | 23.00              |
|                                 |         | HIGH      | QPSK       | 22.08 | 22.32 | 22.09 | 23.00              |
| 50                              | LOW     | QPSK      | 22.24      | 22.39 | 22.18 | 23.00 |                    |
| 10                              | 1       | LOW       | Q16        | 22.06 | 22.44 | 22.66 | 23.00              |
|                                 |         | MID       | Q16        | 22.20 | 22.53 | 22.56 | 23.00              |
|                                 |         | HIGH      | Q16        | 22.13 | 22.62 | 22.32 | 23.00              |
|                                 | 25      | LOW       | Q16        | 21.26 | 21.14 | 21.02 | 22.00              |
|                                 |         | MID       | Q16        | 21.16 | 21.34 | 21.16 | 22.00              |
|                                 |         | HIGH      | Q16        | 21.05 | 21.46 | 21.08 | 22.00              |
| 50                              | LOW     | Q16       | 21.04      | 21.23 | 21.10 | 22.00 |                    |
| 10                              | 1       | LOW       | 64QAM      | 20.93 | 21.19 | 21.71 | 22.00              |
|                                 |         | MID       | 64QAM      | 21.13 | 21.52 | 21.52 | 22.00              |
|                                 |         | HIGH      | 64QAM      | 21.03 | 21.41 | 21.51 | 22.00              |
|                                 | 25      | LOW       | 64QAM      | 20.28 | 20.33 | 20.03 | 21.00              |
|                                 |         | MID       | 64QAM      | 20.42 | 20.38 | 20.13 | 21.00              |
|                                 |         | HIGH      | 64QAM      | 20.08 | 20.21 | 20.40 | 21.00              |
| 50                              | LOW     | 64QAM     | 20.09      | 19.90 | 19.95 | 21.00 |                    |
| Bandwidth (MHz)                 | RB Size | RB offset | Modulation | 26765 | 26865 | 26965 | Tune-up power(dBm) |
| 15                              | 1       | LOW       | QPSK       | 23.06 | 23.11 | 23.23 | 24.00              |
|                                 |         | MID       | QPSK       | 23.11 | 23.19 | 23.17 | 24.00              |
|                                 |         | HIGH      | QPSK       | 23.20 | 23.09 | 23.03 | 24.00              |
|                                 | 36      | LOW       | QPSK       | 22.13 | 22.18 | 22.12 | 23.00              |
|                                 |         | MID       | QPSK       | 22.22 | 22.21 | 22.15 | 23.00              |
|                                 |         | HIGH      | QPSK       | 22.11 | 22.17 | 22.13 | 23.00              |
| 75                              | LOW     | QPSK      | 22.14      | 22.25 | 22.13 | 23.00 |                    |
| 15                              | 1       | LOW       | Q16        | 22.05 | 22.47 | 22.52 | 23.00              |
|                                 |         | MID       | Q16        | 22.11 | 22.59 | 22.47 | 23.00              |
|                                 |         | HIGH      | Q16        | 22.07 | 22.50 | 22.39 | 23.00              |
|                                 | 36      | LOW       | Q16        | 21.14 | 21.23 | 21.13 | 22.00              |
|                                 |         | MID       | Q16        | 21.20 | 21.25 | 21.16 | 22.00              |
|                                 |         | HIGH      | Q16        | 21.13 | 21.31 | 21.11 | 22.00              |
| 75                              | LOW     | Q16       | 21.13      | 21.18 | 21.12 | 22.00 |                    |
| 15                              | 1       | LOW       | 64QAM      | 21.04 | 21.32 | 21.61 | 22.00              |
|                                 |         | MID       | 64QAM      | 21.01 | 21.44 | 21.53 | 22.00              |
|                                 |         | HIGH      | 64QAM      | 21.05 | 21.53 | 21.53 | 22.00              |
|                                 | 36      | LOW       | 64QAM      | 20.14 | 20.22 | 20.15 | 21.00              |
|                                 |         | MID       | 64QAM      | 20.28 | 20.27 | 20.16 | 21.00              |
|                                 |         | HIGH      | 64QAM      | 20.22 | 20.22 | 20.25 | 21.00              |
| 75                              | LOW     | 64QAM     | 20.04      | 20.04 | 20.03 | 21.00 |                    |

### 8.3.8 LTE Band26 Output Power

BL-SZ2320168-701

| LTE B26-Full Power -Ant.0 |                 |           |            |            |       |       |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 26697      | 26865 | 27033 | Tune-up power(dBm) |                    |
| 1.4                       | 1               | LOW       | QPSK       | 23.34      | 23.38 | 23.29 | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.36      | 23.37 | 23.32 | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.38      | 23.37 | 23.28 | 24.00              |                    |
|                           | 3               | LOW       | QPSK       | 23.45      | 23.41 | 23.42 | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.47      | 23.46 | 23.46 | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.45      | 23.42 | 23.44 | 24.00              |                    |
|                           | 6               | LOW       | QPSK       | 22.50      | 22.48 | 22.41 | 23.00              |                    |
|                           | 1.4             | 1         | LOW        | Q16        | 22.54 | 22.90 | 22.36              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.58 | 22.84 | 22.37              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.55      | 22.80 | 22.33 | 23.00              |                    |
| 3                         |                 | LOW       | Q16        | 22.52      | 22.67 | 22.52 | 23.00              |                    |
|                           |                 | MID       | Q16        | 22.53      | 22.65 | 22.51 | 23.00              |                    |
|                           |                 | HIGH      | Q16        | 22.55      | 22.65 | 22.51 | 23.00              |                    |
| 6                         |                 | LOW       | Q16        | 21.62      | 21.31 | 21.54 | 22.00              |                    |
| 1.4                       |                 | 1         | LOW        | 64QAM      | 21.52 | 21.97 | 21.33              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.63 | 21.75 | 21.44              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.63      | 21.65 | 21.18 | 22.00              |                    |
|                           | 3               | LOW       | 64QAM      | 21.61      | 21.72 | 21.52 | 22.00              |                    |
|                           |                 | MID       | 64QAM      | 21.56      | 21.68 | 21.45 | 22.00              |                    |
|                           |                 | HIGH      | 64QAM      | 21.68      | 21.76 | 21.48 | 22.00              |                    |
|                           | 6               | LOW       | 64QAM      | 20.58      | 20.38 | 20.64 | 21.00              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
|                           | 3               | 1         | LOW        | QPSK       | 23.55 | 23.51 | 23.45              | 24.00              |
| MID                       |                 |           | QPSK       | 23.58      | 23.57 | 23.33 | 24.00              |                    |
| HIGH                      |                 |           | QPSK       | 23.44      | 23.47 | 23.33 | 24.00              |                    |
| 8                         |                 | LOW       | QPSK       | 22.53      | 22.27 | 22.49 | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.42      | 22.54 | 22.34 | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.55      | 22.40 | 22.28 | 23.00              |                    |
| 15                        |                 | LOW       | QPSK       | 22.27      | 22.32 | 22.42 | 23.00              |                    |
| 3                         |                 | 1         | LOW        | Q16        | 22.38 | 22.89 | 22.62              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.20 | 22.91 | 22.89              | 23.00              |
|                           | HIGH            |           | Q16        | 22.49      | 22.78 | 22.72 | 23.00              |                    |
|                           | 8               | LOW       | Q16        | 21.47      | 21.48 | 21.39 | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.38      | 21.51 | 21.49 | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.31      | 21.63 | 21.45 | 22.00              |                    |
|                           | 15              | LOW       | Q16        | 21.53      | 21.49 | 21.35 | 22.00              |                    |
|                           | 3               | 1         | LOW        | 64QAM      | 21.36 | 21.63 | 21.71              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.35 | 21.67 | 21.94              | 22.00              |
| HIGH                      |                 |           | 64QAM      | 21.37      | 21.81 | 21.91 | 22.00              |                    |
| 8                         |                 | LOW       | 64QAM      | 20.46      | 20.53 | 20.47 | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.43      | 20.53 | 20.47 | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.36      | 20.33 | 20.42 | 21.00              |                    |
| 15                        |                 | LOW       | 64QAM      | 20.35      | 20.54 | 20.26 | 21.00              |                    |
| Bandwidth (MHz)           |                 | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
| 5                         |                 | 1         | LOW        | QPSK       | 23.56 | 23.46 | 23.47              | 24.00              |
|                           | MID             |           | QPSK       | 23.61      | 23.30 | 23.27 | 24.00              |                    |
|                           | HIGH            |           | QPSK       | 23.43      | 23.47 | 23.40 | 24.00              |                    |
|                           | 12              | LOW       | QPSK       | 22.48      | 22.29 | 22.46 | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.30      | 22.57 | 22.29 | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.44      | 22.42 | 22.44 | 23.00              |                    |
|                           | 25              | LOW       | QPSK       | 22.27      | 22.47 | 22.33 | 23.00              |                    |
|                           | 5               | 1         | LOW        | Q16        | 22.27 | 22.77 | 22.87              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.20 | 22.83 | 22.88              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.45      | 22.58 | 22.54 | 23.00              |                    |
| 12                        |                 | LOW       | Q16        | 21.34      | 21.32 | 21.43 | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.38      | 21.46 | 21.55 | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.28      | 21.48 | 21.29 | 22.00              |                    |
| 25                        |                 | LOW       | Q16        | 21.31      | 21.40 | 21.58 | 22.00              |                    |
| 5                         |                 | 1         | LOW        | 64QAM      | 21.32 | 21.54 | 21.67              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.21 | 21.97 | 21.97              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.22      | 21.62 | 21.63 | 22.00              |                    |
|                           | 12              | LOW       | 64QAM      | 20.40      | 20.44 | 20.62 | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.33      | 20.47 | 20.44 | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.48      | 20.48 | 20.58 | 21.00              |                    |
|                           | 25              | LOW       | 64QAM      | 20.25      | 20.41 | 20.31 | 21.00              |                    |

| LTE B26-Full Power -Ant.0 |                 |           |            |            |       |       |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 26740      | 26865 | 26990 | Tune-up power(dBm) |                    |
| 10                        | 1               | LOW       | QPSK       | 23.46      | 23.36 | 23.40 | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.53      | 23.38 | 23.32 | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.55      | 23.37 | 23.32 | 24.00              |                    |
|                           | 25              | LOW       | QPSK       | 22.40      | 22.28 | 22.60 | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.48      | 22.52 | 22.44 | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.40      | 22.45 | 22.51 | 23.00              |                    |
|                           | 50              | LOW       | QPSK       | 22.42      | 22.52 | 22.49 | 23.00              |                    |
|                           | 10              | 1         | LOW        | Q16        | 22.34 | 22.90 | 22.75              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.23 | 22.97 | 22.65              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.32      | 22.69 | 22.54 | 23.00              |                    |
| 25                        |                 | LOW       | Q16        | 21.57      | 21.29 | 21.54 | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.31      | 21.36 | 21.46 | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.49      | 21.59 | 21.37 | 22.00              |                    |
| 50                        |                 | LOW       | Q16        | 21.50      | 21.52 | 21.41 | 22.00              |                    |
| 10                        |                 | 1         | LOW        | 64QAM      | 21.32 | 21.76 | 21.72              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.33 | 21.69 | 21.87              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.29      | 21.77 | 21.68 | 22.00              |                    |
|                           | 25              | LOW       | 64QAM      | 20.28      | 20.25 | 20.47 | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.40      | 20.39 | 20.33 | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.50      | 20.34 | 20.54 | 21.00              |                    |
|                           | 50              | LOW       | 64QAM      | 20.34      | 20.63 | 20.30 | 21.00              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26765 | 26865 | 26965              | Tune-up power(dBm) |
|                           | 15              | 1         | LOW        | QPSK       | 23.42 | 23.38 | 23.32              | 24.00              |
| MID                       |                 |           | QPSK       | 23.49      | 23.45 | 23.38 | 24.00              |                    |
| HIGH                      |                 |           | QPSK       | 23.47      | 23.37 | 23.29 | 24.00              |                    |
| 36                        |                 | LOW       | QPSK       | 22.40      | 22.40 | 22.47 | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.45      | 22.47 | 22.44 | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.45      | 22.41 | 22.38 | 23.00              |                    |
| 75                        |                 | LOW       | QPSK       | 22.38      | 22.42 | 22.43 | 23.00              |                    |
| 15                        |                 | 1         | LOW        | Q16        | 22.30 | 22.77 | 22.74              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.34 | 22.85 | 22.74              | 23.00              |
|                           | HIGH            |           | Q16        | 22.37      | 22.73 | 22.64 | 23.00              |                    |
|                           | 36              | LOW       | Q16        | 21.43      | 21.43 | 21.47 | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.46      | 21.50 | 21.43 | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.42      | 21.49 | 21.42 | 22.00              |                    |
|                           | 75              | LOW       | Q16        | 21.42      | 21.43 | 21.44 | 22.00              |                    |
|                           | 15              | 1         | LOW        | 64QAM      | 21.33 | 21.65 | 21.65              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.25 | 21.82 | 21.88              | 22.00              |
| HIGH                      |                 |           | 64QAM      | 21.34      | 21.74 | 21.78 | 22.00              |                    |
| 36                        |                 | LOW       | 64QAM      | 20.34      | 20.40 | 20.48 | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.41      | 20.38 | 20.42 | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.38      | 20.41 | 20.43 | 21.00              |                    |
| 75                        |                 | LOW       | 64QAM      | 20.29      | 20.56 | 20.40 | 21.00              |                    |

| LTE B26-State1&2&3&4&5&6 -Ant.0 |         |           |            |       |       |       |                    |
|---------------------------------|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (MHz)                 | RB Size | RB offset | Modulation | 26697 | 26865 | 27033 | Tune-up power(dBm) |
| 1.4                             | 1       | LOW       | QPSK       | 23.34 | 23.38 | 23.29 | 24.00              |
|                                 |         | MID       | QPSK       | 23.36 | 23.37 | 23.32 | 24.00              |
|                                 |         | HIGH      | QPSK       | 23.38 | 23.37 | 23.28 | 24.00              |
|                                 | 3       | LOW       | QPSK       | 23.45 | 23.41 | 23.42 | 24.00              |
|                                 |         | MID       | QPSK       | 23.47 | 23.46 | 23.46 | 24.00              |
|                                 |         | HIGH      | QPSK       | 23.45 | 23.42 | 23.44 | 24.00              |
| 6                               | LOW     | QPSK      | 22.50      | 22.48 | 22.41 | 23.00 |                    |
| 1.4                             | 1       | LOW       | Q16        | 22.54 | 22.90 | 22.36 | 23.00              |
|                                 |         | MID       | Q16        | 22.58 | 22.84 | 22.37 | 23.00              |
|                                 |         | HIGH      | Q16        | 22.55 | 22.80 | 22.33 | 23.00              |
|                                 | 3       | LOW       | Q16        | 22.52 | 22.67 | 22.52 | 23.00              |
|                                 |         | MID       | Q16        | 22.53 | 22.65 | 22.51 | 23.00              |
|                                 |         | HIGH      | Q16        | 22.55 | 22.65 | 22.51 | 23.00              |
| 6                               | LOW     | Q16       | 21.62      | 21.31 | 21.54 | 22.00 |                    |
| 1.4                             | 1       | LOW       | 64QAM      | 21.52 | 21.97 | 21.33 | 22.00              |
|                                 |         | MID       | 64QAM      | 21.63 | 21.75 | 21.44 | 22.00              |
|                                 |         | HIGH      | 64QAM      | 21.63 | 21.65 | 21.18 | 22.00              |
|                                 | 3       | LOW       | 64QAM      | 21.61 | 21.72 | 21.52 | 22.00              |
|                                 |         | MID       | 64QAM      | 21.56 | 21.68 | 21.45 | 22.00              |
|                                 |         | HIGH      | 64QAM      | 21.68 | 21.76 | 21.48 | 22.00              |
| 6                               | LOW     | 64QAM     | 20.58      | 20.38 | 20.64 | 21.00 |                    |
| Bandwidth (MHz)                 | RB Size | RB offset | Modulation | 26715 | 26865 | 27015 | Tune-up power(dBm) |
| 3                               | 1       | LOW       | QPSK       | 23.55 | 23.51 | 23.45 | 24.00              |
|                                 |         | MID       | QPSK       | 23.58 | 23.57 | 23.33 | 24.00              |
|                                 |         | HIGH      | QPSK       | 23.44 | 23.47 | 23.33 | 24.00              |
|                                 | 8       | LOW       | QPSK       | 22.53 | 22.27 | 22.49 | 23.00              |
|                                 |         | MID       | QPSK       | 22.42 | 22.54 | 22.34 | 23.00              |
|                                 |         | HIGH      | QPSK       | 22.55 | 22.40 | 22.28 | 23.00              |
| 15                              | LOW     | QPSK      | 22.27      | 22.32 | 22.42 | 23.00 |                    |
| 3                               | 1       | LOW       | Q16        | 22.38 | 22.89 | 22.62 | 23.00              |
|                                 |         | MID       | Q16        | 22.20 | 22.91 | 22.89 | 23.00              |
|                                 |         | HIGH      | Q16        | 22.49 | 22.78 | 22.72 | 23.00              |
|                                 | 8       | LOW       | Q16        | 21.47 | 21.48 | 21.39 | 22.00              |
|                                 |         | MID       | Q16        | 21.38 | 21.51 | 21.49 | 22.00              |
|                                 |         | HIGH      | Q16        | 21.31 | 21.63 | 21.45 | 22.00              |
| 15                              | LOW     | Q16       | 21.53      | 21.49 | 21.35 | 22.00 |                    |
| 3                               | 1       | LOW       | 64QAM      | 21.36 | 21.63 | 21.71 | 22.00              |
|                                 |         | MID       | 64QAM      | 21.35 | 21.67 | 21.94 | 22.00              |
|                                 |         | HIGH      | 64QAM      | 21.37 | 21.81 | 21.91 | 22.00              |
|                                 | 8       | LOW       | 64QAM      | 20.46 | 20.53 | 20.47 | 21.00              |
|                                 |         | MID       | 64QAM      | 20.43 | 20.53 | 20.47 | 21.00              |
|                                 |         | HIGH      | 64QAM      | 20.36 | 20.33 | 20.42 | 21.00              |
| 15                              | LOW     | 64QAM     | 20.35      | 20.54 | 20.26 | 21.00 |                    |
| Bandwidth (MHz)                 | RB Size | RB offset | Modulation | 26715 | 26865 | 27015 | Tune-up power(dBm) |
| 5                               | 1       | LOW       | QPSK       | 23.56 | 23.46 | 23.47 | 24.00              |
|                                 |         | MID       | QPSK       | 23.61 | 23.30 | 23.27 | 24.00              |
|                                 |         | HIGH      | QPSK       | 23.43 | 23.47 | 23.40 | 24.00              |
|                                 | 12      | LOW       | QPSK       | 22.48 | 22.29 | 22.46 | 23.00              |
|                                 |         | MID       | QPSK       | 22.30 | 22.57 | 22.29 | 23.00              |
|                                 |         | HIGH      | QPSK       | 22.44 | 22.42 | 22.44 | 23.00              |
| 25                              | LOW     | QPSK      | 22.27      | 22.47 | 22.33 | 23.00 |                    |
| 5                               | 1       | LOW       | Q16        | 22.27 | 22.77 | 22.87 | 23.00              |
|                                 |         | MID       | Q16        | 22.20 | 22.83 | 22.88 | 23.00              |
|                                 |         | HIGH      | Q16        | 22.45 | 22.58 | 22.54 | 23.00              |
|                                 | 12      | LOW       | Q16        | 21.34 | 21.32 | 21.43 | 22.00              |
|                                 |         | MID       | Q16        | 21.38 | 21.46 | 21.55 | 22.00              |
|                                 |         | HIGH      | Q16        | 21.28 | 21.48 | 21.29 | 22.00              |
| 25                              | LOW     | Q16       | 21.31      | 21.40 | 21.58 | 22.00 |                    |
| 5                               | 1       | LOW       | 64QAM      | 21.32 | 21.54 | 21.67 | 22.00              |
|                                 |         | MID       | 64QAM      | 21.21 | 21.97 | 21.97 | 22.00              |
|                                 |         | HIGH      | 64QAM      | 21.22 | 21.62 | 21.63 | 22.00              |
|                                 | 12      | LOW       | 64QAM      | 20.40 | 20.44 | 20.62 | 21.00              |
|                                 |         | MID       | 64QAM      | 20.33 | 20.47 | 20.44 | 21.00              |
|                                 |         | HIGH      | 64QAM      | 20.48 | 20.48 | 20.58 | 21.00              |
| 25                              | LOW     | 64QAM     | 20.25      | 20.41 | 20.31 | 21.00 |                    |

| LTE B26-State1&2&3&4&5&6 -Ant.0 |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 26740      | 26865 | 26990 | Tune-up power(dBm) |                    |
| 10                              | 1               | LOW       | QPSK       | 23.46      | 23.36 | 23.40 | 24.00              |                    |
|                                 |                 | MID       | QPSK       | 23.53      | 23.38 | 23.32 | 24.00              |                    |
|                                 |                 | HIGH      | QPSK       | 23.55      | 23.37 | 23.32 | 24.00              |                    |
|                                 | 25              | LOW       | QPSK       | 22.40      | 22.28 | 22.60 | 23.00              |                    |
|                                 |                 | MID       | QPSK       | 22.48      | 22.52 | 22.44 | 23.00              |                    |
|                                 |                 | HIGH      | QPSK       | 22.40      | 22.45 | 22.51 | 23.00              |                    |
|                                 | 50              | LOW       | QPSK       | 22.42      | 22.52 | 22.49 | 23.00              |                    |
|                                 | 10              | 1         | LOW        | Q16        | 22.34 | 22.90 | 22.75              | 23.00              |
|                                 |                 |           | MID        | Q16        | 22.23 | 22.97 | 22.65              | 23.00              |
| HIGH                            |                 |           | Q16        | 22.32      | 22.69 | 22.54 | 23.00              |                    |
| 25                              |                 | LOW       | Q16        | 21.57      | 21.29 | 21.54 | 22.00              |                    |
|                                 |                 | MID       | Q16        | 21.31      | 21.36 | 21.46 | 22.00              |                    |
|                                 |                 | HIGH      | Q16        | 21.49      | 21.59 | 21.37 | 22.00              |                    |
| 50                              |                 | LOW       | Q16        | 21.50      | 21.52 | 21.41 | 22.00              |                    |
| 10                              |                 | 1         | LOW        | 64QAM      | 21.32 | 21.76 | 21.72              | 22.00              |
|                                 |                 |           | MID        | 64QAM      | 21.33 | 21.69 | 21.87              | 22.00              |
|                                 | HIGH            |           | 64QAM      | 21.29      | 21.77 | 21.68 | 22.00              |                    |
|                                 | 25              | LOW       | 64QAM      | 20.28      | 20.25 | 20.47 | 21.00              |                    |
|                                 |                 | MID       | 64QAM      | 20.40      | 20.39 | 20.33 | 21.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 20.50      | 20.34 | 20.54 | 21.00              |                    |
|                                 | 50              | LOW       | 64QAM      | 20.34      | 20.63 | 20.30 | 21.00              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26765 | 26865 | 26965              | Tune-up power(dBm) |
|                                 | 15              | 1         | LOW        | QPSK       | 23.42 | 23.38 | 23.32              | 24.00              |
| MID                             |                 |           | QPSK       | 23.38      | 23.45 | 23.49 | 24.00              |                    |
| HIGH                            |                 |           | QPSK       | 23.47      | 23.37 | 23.29 | 24.00              |                    |
| 36                              |                 | LOW       | QPSK       | 22.40      | 22.40 | 22.47 | 23.00              |                    |
|                                 |                 | MID       | QPSK       | 22.45      | 22.45 | 22.44 | 23.00              |                    |
|                                 |                 | HIGH      | QPSK       | 22.45      | 22.41 | 22.38 | 23.00              |                    |
| 75                              |                 | LOW       | QPSK       | 22.38      | 22.42 | 22.43 | 23.00              |                    |
| 15                              |                 | 1         | LOW        | Q16        | 22.30 | 22.77 | 22.74              | 23.00              |
|                                 |                 |           | MID        | Q16        | 22.34 | 22.85 | 22.74              | 23.00              |
|                                 | HIGH            |           | Q16        | 22.37      | 22.73 | 22.64 | 23.00              |                    |
|                                 | 36              | LOW       | Q16        | 21.43      | 21.43 | 21.47 | 22.00              |                    |
|                                 |                 | MID       | Q16        | 21.46      | 21.50 | 21.43 | 22.00              |                    |
|                                 |                 | HIGH      | Q16        | 21.42      | 21.49 | 21.42 | 22.00              |                    |
|                                 | 75              | LOW       | Q16        | 21.42      | 21.43 | 21.44 | 22.00              |                    |
|                                 | 15              | 1         | LOW        | 64QAM      | 21.33 | 21.65 | 21.65              | 22.00              |
|                                 |                 |           | MID        | 64QAM      | 21.25 | 21.82 | 21.88              | 22.00              |
| HIGH                            |                 |           | 64QAM      | 21.34      | 21.74 | 21.78 | 22.00              |                    |
| 36                              |                 | LOW       | 64QAM      | 20.34      | 20.40 | 20.48 | 21.00              |                    |
|                                 |                 | MID       | 64QAM      | 20.41      | 20.38 | 20.42 | 21.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 20.38      | 20.41 | 20.43 | 21.00              |                    |
| 75                              |                 | LOW       | 64QAM      | 20.29      | 20.56 | 20.40 | 21.00              |                    |

### 8.3.9 LTE Band66 Output Power

BL-SZ2320168-701

| LTE B66-Full Power -Ant.4 |                 |           |            |            |        |        |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                       | 1               | LOW       | QPSK       | 22.26      | 22.12  | 22.38  | 24.00              |                    |
|                           |                 | MID       | QPSK       | 22.24      | 22.14  | 22.47  | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.23      | 22.18  | 22.47  | 24.00              |                    |
|                           | 3               | LOW       | QPSK       | 22.29      | 22.18  | 22.49  | 24.00              |                    |
|                           |                 | MID       | QPSK       | 22.29      | 22.19  | 22.47  | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.28      | 22.15  | 22.48  | 24.00              |                    |
|                           | 6               | LOW       | QPSK       | 21.25      | 21.21  | 21.46  | 23.00              |                    |
|                           | 1.4             | 1         | LOW        | Q16        | 21.41  | 21.54  | 21.49              | 23.00              |
|                           |                 |           | MID        | Q16        | 21.42  | 21.54  | 21.02              | 23.00              |
| HIGH                      |                 |           | Q16        | 21.40      | 21.59  | 21.02  | 23.00              |                    |
| 3                         |                 | LOW       | Q16        | 21.32      | 21.37  | 21.14  | 23.00              |                    |
|                           |                 | MID       | Q16        | 21.32      | 21.35  | 21.14  | 23.00              |                    |
|                           |                 | HIGH      | Q16        | 21.33      | 21.34  | 21.16  | 23.00              |                    |
| 6                         |                 | LOW       | Q16        | 20.41      | 20.10  | 20.12  | 22.00              |                    |
| 1.4                       |                 | 1         | LOW        | 64QAM      | 20.54  | 20.44  | 20.14              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 20.56  | 20.40  | 20.12              | 22.00              |
|                           | HIGH            |           | 64QAM      | 20.45      | 20.48  | 20.14  | 22.00              |                    |
|                           | 3               | LOW       | 64QAM      | 20.47      | 20.39  | 20.25  | 22.00              |                    |
|                           |                 | MID       | 64QAM      | 20.39      | 20.43  | 20.04  | 22.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.22      | 20.23  | 20.09  | 22.00              |                    |
|                           | 6               | LOW       | 64QAM      | 19.53      | 19.07  | 19.08  | 21.00              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                           | 3               | 1         | LOW        | QPSK       | 22.28  | 22.49  | 22.23              | 24.00              |
| MID                       |                 |           | QPSK       | 22.37      | 22.40  | 22.35  | 24.00              |                    |
| HIGH                      |                 |           | QPSK       | 22.16      | 22.19  | 22.26  | 24.00              |                    |
| 8                         |                 | LOW       | QPSK       | 21.28      | 21.16  | 21.52  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 21.27      | 21.56  | 21.37  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 21.33      | 21.22  | 21.18  | 23.00              |                    |
| 15                        |                 | LOW       | QPSK       | 21.27      | 21.43  | 21.36  | 23.00              |                    |
| 3                         |                 | 1         | LOW        | Q16        | 21.69  | 21.55  | 21.37              | 23.00              |
|                           |                 |           | MID        | Q16        | 21.78  | 21.67  | 21.46              | 23.00              |
|                           | HIGH            |           | Q16        | 21.82      | 21.68  | 21.24  | 23.00              |                    |
|                           | 8               | LOW       | Q16        | 20.19      | 20.11  | 20.09  | 22.00              |                    |
|                           |                 | MID       | Q16        | 20.28      | 20.14  | 20.12  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 20.28      | 20.12  | 20.16  | 22.00              |                    |
|                           | 15              | LOW       | Q16        | 20.31      | 20.21  | 20.38  | 22.00              |                    |
|                           | 3               | 1         | LOW        | 64QAM      | 20.69  | 20.64  | 20.37              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 20.71  | 20.69  | 20.58              | 22.00              |
| HIGH                      |                 |           | 64QAM      | 20.78      | 20.67  | 20.22  | 22.00              |                    |
| 8                         |                 | LOW       | 64QAM      | 19.26      | 19.18  | 19.32  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 19.33      | 19.47  | 19.29  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 19.47      | 19.45  | 19.24  | 21.00              |                    |
| 15                        |                 | LOW       | 64QAM      | 19.41      | 19.28  | 19.33  | 21.00              |                    |
| Bandwidth (MHz)           |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                         |                 | 1         | LOW        | QPSK       | 22.10  | 22.54  | 22.32              | 24.00              |
|                           | MID             |           | QPSK       | 22.27      | 22.26  | 22.47  | 24.00              |                    |
|                           | HIGH            |           | QPSK       | 22.34      | 22.27  | 22.33  | 24.00              |                    |
|                           | 36              | LOW       | QPSK       | 21.24      | 21.21  | 21.37  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 21.42      | 21.50  | 21.36  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 21.35      | 21.27  | 21.21  | 23.00              |                    |
|                           | 75              | LOW       | QPSK       | 21.37      | 21.57  | 21.43  | 23.00              |                    |
|                           | 5               | 1         | LOW        | Q16        | 21.66  | 21.55  | 21.46              | 23.00              |
|                           |                 |           | MID        | Q16        | 21.72  | 21.85  | 21.39              | 23.00              |
| HIGH                      |                 |           | Q16        | 21.73      | 21.66  | 21.28  | 23.00              |                    |
| 36                        |                 | LOW       | Q16        | 20.22      | 20.15  | 20.05  | 22.00              |                    |
|                           |                 | MID       | Q16        | 20.38      | 20.27  | 20.23  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 20.23      | 20.24  | 20.28  | 22.00              |                    |
| 75                        |                 | LOW       | Q16        | 20.32      | 20.23  | 20.37  | 22.00              |                    |
| 5                         |                 | 1         | LOW        | 64QAM      | 20.65  | 20.71  | 20.34              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 20.69  | 20.65  | 20.55              | 22.00              |
|                           | HIGH            |           | 64QAM      | 20.86      | 20.51  | 20.17  | 22.00              |                    |
|                           | 36              | LOW       | 64QAM      | 19.32      | 19.10  | 19.39  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 19.39      | 19.39  | 19.37  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 19.41      | 19.49  | 19.25  | 21.00              |                    |
|                           | 75              | LOW       | 64QAM      | 19.38      | 19.35  | 19.31  | 21.00              |                    |

| LTE B66-Full Power -Ant.4 |                 |           |            |            |        |        |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                        | 1               | LOW       | QPSK       | 22.25      | 22.52  | 22.16  | 24.00              |                    |
|                           |                 | MID       | QPSK       | 22.37      | 22.36  | 22.46  | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.23      | 22.20  | 22.27  | 24.00              |                    |
|                           | 50              | LOW       | QPSK       | 21.18      | 21.24  | 21.42  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 21.34      | 21.49  | 21.47  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 21.32      | 21.23  | 21.28  | 23.00              |                    |
|                           | 100             | LOW       | QPSK       | 21.26      | 21.52  | 21.43  | 23.00              |                    |
|                           | 10              | 1         | LOW        | Q16        | 21.61  | 21.56  | 21.44              | 23.00              |
|                           |                 |           | MID        | Q16        | 21.92  | 21.78  | 21.55              | 23.00              |
| HIGH                      |                 |           | Q16        | 21.81      | 21.49  | 21.32  | 23.00              |                    |
| 50                        |                 | LOW       | Q16        | 20.30      | 20.25  | 20.02  | 22.00              |                    |
|                           |                 | MID       | Q16        | 20.28      | 20.23  | 20.13  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 20.37      | 20.21  | 20.21  | 22.00              |                    |
| 100                       |                 | LOW       | Q16        | 20.26      | 20.21  | 20.26  | 22.00              |                    |
| 10                        |                 | 1         | LOW        | 64QAM      | 20.58  | 20.68  | 20.30              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 20.79  | 20.81  | 20.55              | 22.00              |
|                           | HIGH            |           | 64QAM      | 20.87      | 20.60  | 20.27  | 22.00              |                    |
|                           | 50              | LOW       | 64QAM      | 19.27      | 19.22  | 19.31  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 19.35      | 19.38  | 19.37  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 19.45      | 19.42  | 19.24  | 21.00              |                    |
|                           | 100             | LOW       | 64QAM      | 19.41      | 19.15  | 19.23  | 21.00              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                           | 15              | 1         | LOW        | QPSK       | 22.20  | 22.54  | 22.13              | 24.00              |
| MID                       |                 |           | QPSK       | 22.36      | 22.38  | 22.39  | 24.00              |                    |
| HIGH                      |                 |           | QPSK       | 22.35      | 22.16  | 22.31  | 24.00              |                    |
| 36                        |                 | LOW       | QPSK       | 21.22      | 21.16  | 21.54  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 21.34      | 21.57  | 21.41  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 21.31      | 21.16  | 21.23  | 23.00              |                    |
| 75                        |                 | LOW       | QPSK       | 21.39      | 21.59  | 21.46  | 23.00              |                    |
| 15                        |                 | 1         | LOW        | Q16        | 21.64  | 21.64  | 21.32              | 23.00              |
|                           |                 |           | MID        | Q16        | 21.91  | 21.70  | 21.58              | 23.00              |
|                           | HIGH            |           | Q16        | 21.69      | 21.63  | 21.29  | 23.00              |                    |
|                           | 36              | LOW       | Q16        | 20.38      | 20.14  | 20.00  | 22.00              |                    |
|                           |                 | MID       | Q16        | 20.40      | 20.14  | 20.02  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 20.30      | 20.13  | 20.31  | 22.00              |                    |
|                           | 75              | LOW       | Q16        | 20.30      | 20.08  | 20.39  | 22.00              |                    |
|                           | 15              | 1         | LOW        | 64QAM      | 20.64  | 20.82  | 20.39              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 20.69  | 20.77  | 20.66              | 22.00              |
| HIGH                      |                 |           | 64QAM      | 20.86      | 20.61  | 20.27  | 22.00              |                    |
| 36                        |                 | LOW       | 64QAM      | 19.27      | 19.15  | 19.29  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 19.33      | 19.30  | 19.29  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 19.49      | 19.54  | 19.10  | 21.00              |                    |
| 75                        |                 | LOW       | 64QAM      | 19.33      | 19.24  | 19.34  | 21.00              |                    |
| Bandwidth (MHz)           |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                        |                 | 1         | LOW        | QPSK       | 22.15  | 22.41  | 22.18              | 24.00              |
|                           | MID             |           | QPSK       | 22.31      | 22.26  | 22.33  | 24.00              |                    |
|                           | HIGH            |           | QPSK       | 22.20      | 22.13  | 22.20  | 24.00              |                    |
|                           | 50              | LOW       | QPSK       | 21.23      | 21.14  | 21.42  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 21.29      | 21.48  | 21.38  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 21.26      | 21.14  | 21.23  | 23.00              |                    |
|                           | 100             | LOW       | QPSK       | 21.30      | 21.48  | 21.32  | 23.00              |                    |
|                           | 20              | 1         | LOW        | Q16        | 21.66  | 21.55  | 21.33              | 23.00              |
|                           |                 |           | MID        | Q16        | 21.77  | 21.72  | 21.44              | 23.00              |
| HIGH                      |                 |           | Q16        | 21.67      | 21.54  | 21.28  | 23.00              |                    |
| 50                        |                 | LOW       | Q16        | 20.23      | 20.15  | 20.05  | 22.00              |                    |
|                           |                 | MID       | Q16        | 20.26      | 20.13  | 20.01  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 20.28      | 20.10  | 20.21  | 22.00              |                    |
| 100                       |                 | LOW       | Q16        | 20.29      | 20.13  | 20.28  | 22.00              |                    |
| 20                        |                 | 1         | LOW        | 64QAM      | 20.59  | 20.69  | 20.27              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 20.73  | 20.67  | 20.56              | 22.00              |
|                           | HIGH            |           | 64QAM      | 20.78      | 20.52  | 20.17  | 22.00              |                    |
|                           | 50              | LOW       | 64QAM      | 19.17      | 19.15  | 19.34  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 19.29      | 19.33  | 19.28  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 19.34      | 19.40  | 19.12  | 21.00              |                    |
|                           | 100             | LOW       | 64QAM      | 19.38      | 19.20  | 19.24  | 21.00              |                    |

| LTE B66-State1 -Ant.4 |                 |           |            |            |        |        |                    |                    |
|-----------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)       | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                   | 1               | LOW       | QPSK       | 21.01      | 21.25  | 21.29  | 23.00              |                    |
|                       |                 | MID       | QPSK       | 21.05      | 21.27  | 21.05  | 23.00              |                    |
|                       |                 | HIGH      | QPSK       | 21.04      | 21.28  | 21.00  | 23.00              |                    |
|                       | 3               | LOW       | QPSK       | 21.07      | 21.02  | 21.07  | 23.00              |                    |
|                       |                 | MID       | QPSK       | 21.11      | 21.27  | 21.11  | 23.00              |                    |
|                       |                 | HIGH      | QPSK       | 21.10      | 21.26  | 21.11  | 23.00              |                    |
|                       | 6               | LOW       | QPSK       | 21.11      | 21.01  | 21.07  | 23.00              |                    |
|                       | 1.4             | 1         | LOW        | Q16        | 21.22  | 21.39  | 21.12              | 23.00              |
|                       |                 |           | MID        | Q16        | 21.25  | 21.35  | 21.13              | 23.00              |
| HIGH                  |                 |           | Q16        | 21.23      | 21.35  | 21.17  | 23.00              |                    |
| 3                     |                 | LOW       | Q16        | 21.10      | 21.20  | 21.26  | 23.00              |                    |
|                       |                 | MID       | Q16        | 21.16      | 21.14  | 21.27  | 23.00              |                    |
|                       |                 | HIGH      | Q16        | 21.13      | 21.14  | 21.23  | 23.00              |                    |
| 6                     |                 | LOW       | Q16        | 20.22      | 20.20  | 20.24  | 22.00              |                    |
| 1.4                   |                 | 1         | LOW        | 64QAM      | 20.21  | 20.35  | 20.24              | 22.00              |
|                       |                 |           | MID        | 64QAM      | 20.11  | 20.44  | 20.29              | 22.00              |
|                       | HIGH            |           | 64QAM      | 20.12      | 20.31  | 20.06  | 22.00              |                    |
|                       | 3               | LOW       | 64QAM      | 20.01      | 20.34  | 20.08  | 22.00              |                    |
|                       |                 | MID       | 64QAM      | 20.12      | 20.14  | 20.19  | 22.00              |                    |
|                       |                 | HIGH      | 64QAM      | 20.03      | 20.16  | 20.27  | 22.00              |                    |
|                       | 6               | LOW       | 64QAM      | 19.35      | 19.28  | 19.21  | 21.00              |                    |
|                       | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                       | 3               | 1         | LOW        | QPSK       | 21.38  | 21.23  | 21.25              | 23.00              |
| MID                   |                 |           | QPSK       | 21.39      | 21.35  | 21.07  | 23.00              |                    |
| HIGH                  |                 |           | QPSK       | 21.40      | 21.30  | 21.37  | 23.00              |                    |
| 8                     |                 | LOW       | QPSK       | 21.13      | 21.46  | 21.30  | 23.00              |                    |
|                       |                 | MID       | QPSK       | 21.51      | 21.11  | 21.27  | 23.00              |                    |
|                       |                 | HIGH      | QPSK       | 21.50      | 21.37  | 21.37  | 23.00              |                    |
| 15                    |                 | LOW       | QPSK       | 21.46      | 21.37  | 21.26  | 23.00              |                    |
| 3                     |                 | 1         | LOW        | Q16        | 21.51  | 21.49  | 21.10              | 23.00              |
|                       |                 |           | MID        | Q16        | 21.72  | 21.67  | 21.23              | 23.00              |
|                       | HIGH            |           | Q16        | 21.63      | 21.43  | 21.09  | 23.00              |                    |
|                       | 8               | LOW       | Q16        | 20.08      | 20.30  | 20.13  | 22.00              |                    |
|                       |                 | MID       | Q16        | 20.10      | 20.31  | 20.12  | 22.00              |                    |
|                       |                 | HIGH      | Q16        | 20.33      | 20.35  | 20.39  | 22.00              |                    |
|                       | 15              | LOW       | Q16        | 20.13      | 20.39  | 20.05  | 22.00              |                    |
|                       | 3               | 1         | LOW        | 64QAM      | 20.58  | 20.54  | 20.19              | 22.00              |
|                       |                 |           | MID        | 64QAM      | 20.69  | 20.64  | 20.27              | 22.00              |
| HIGH                  |                 |           | 64QAM      | 20.51      | 20.29  | 20.22  | 22.00              |                    |
| 8                     |                 | LOW       | 64QAM      | 19.32      | 19.43  | 19.28  | 21.00              |                    |
|                       |                 | MID       | 64QAM      | 19.26      | 19.18  | 19.44  | 21.00              |                    |
|                       |                 | HIGH      | 64QAM      | 19.06      | 19.32  | 19.35  | 21.00              |                    |
| 15                    |                 | LOW       | 64QAM      | 19.25      | 19.33  | 19.25  | 21.00              |                    |
| Bandwidth (MHz)       |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                     |                 | 1         | LOW        | QPSK       | 21.32  | 21.14  | 21.29              | 23.00              |
|                       | MID             |           | QPSK       | 21.40      | 21.39  | 21.18  | 23.00              |                    |
|                       | HIGH            |           | QPSK       | 21.43      | 21.19  | 21.26  | 23.00              |                    |
|                       | 36              | LOW       | QPSK       | 21.12      | 21.44  | 21.26  | 23.00              |                    |
|                       |                 | MID       | QPSK       | 21.51      | 21.17  | 21.21  | 23.00              |                    |
|                       |                 | HIGH      | QPSK       | 21.38      | 21.41  | 21.45  | 23.00              |                    |
|                       | 75              | LOW       | QPSK       | 21.43      | 21.30  | 21.20  | 23.00              |                    |
|                       | 5               | 1         | LOW        | Q16        | 21.55  | 21.48  | 21.18              | 23.00              |
|                       |                 |           | MID        | Q16        | 21.69  | 21.52  | 21.32              | 23.00              |
| HIGH                  |                 |           | Q16        | 21.53      | 21.44  | 21.07  | 23.00              |                    |
| 36                    |                 | LOW       | Q16        | 20.07      | 20.39  | 20.23  | 22.00              |                    |
|                       |                 | MID       | Q16        | 20.18      | 20.31  | 20.22  | 22.00              |                    |
|                       |                 | HIGH      | Q16        | 20.33      | 20.18  | 20.28  | 22.00              |                    |
| 75                    |                 | LOW       | Q16        | 20.10      | 20.35  | 20.09  | 22.00              |                    |
| 5                     |                 | 1         | LOW        | 64QAM      | 20.59  | 20.56  | 20.32              | 22.00              |
|                       |                 |           | MID        | 64QAM      | 20.69  | 20.54  | 20.32              | 22.00              |
|                       | HIGH            |           | 64QAM      | 20.59      | 20.32  | 20.29  | 22.00              |                    |
|                       | 36              | LOW       | 64QAM      | 19.15      | 19.32  | 19.32  | 21.00              |                    |
|                       |                 | MID       | 64QAM      | 19.13      | 19.14  | 19.43  | 21.00              |                    |
|                       |                 | HIGH      | 64QAM      | 19.06      | 19.28  | 19.33  | 21.00              |                    |
|                       | 75              | LOW       | 64QAM      | 19.39      | 19.31  | 19.08  | 21.00              |                    |



| LTE B66-State1 -Ant.4 |                 |           |            |            |        |        |                    |                    |
|-----------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)       | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                    | 1               | LOW       | QPSK       | 21.35      | 21.24  | 21.22  | 23.00              |                    |
|                       |                 | MID       | QPSK       | 21.43      | 21.54  | 21.21  | 23.00              |                    |
|                       |                 | HIGH      | QPSK       | 21.41      | 21.37  | 21.31  | 23.00              |                    |
|                       | 50              | LOW       | QPSK       | 21.10      | 21.32  | 21.16  | 23.00              |                    |
|                       |                 | MID       | QPSK       | 21.39      | 21.00  | 21.18  | 23.00              |                    |
|                       |                 | HIGH      | QPSK       | 21.46      | 21.26  | 21.35  | 23.00              |                    |
|                       | 100             | LOW       | QPSK       | 21.51      | 21.23  | 21.09  | 23.00              |                    |
|                       | 10              | 1         | LOW        | Q16        | 21.58  | 21.46  | 21.13              | 23.00              |
|                       |                 |           | MID        | Q16        | 21.71  | 21.54  | 21.26              | 23.00              |
| HIGH                  |                 |           | Q16        | 21.63      | 21.42  | 21.18  | 23.00              |                    |
| 50                    |                 | LOW       | Q16        | 20.21      | 20.25  | 20.16  | 22.00              |                    |
|                       |                 | MID       | Q16        | 20.09      | 20.34  | 20.10  | 22.00              |                    |
|                       |                 | HIGH      | Q16        | 20.42      | 20.22  | 20.44  | 22.00              |                    |
| 100                   |                 | LOW       | Q16        | 20.15      | 20.20  | 20.15  | 22.00              |                    |
| 10                    |                 | 1         | LOW        | 64QAM      | 20.64  | 20.53  | 20.36              | 22.00              |
|                       |                 |           | MID        | 64QAM      | 20.70  | 20.50  | 20.28              | 22.00              |
|                       | HIGH            |           | 64QAM      | 20.65      | 20.30  | 20.41  | 22.00              |                    |
|                       | 50              | LOW       | 64QAM      | 19.30      | 19.51  | 19.26  | 21.00              |                    |
|                       |                 | MID       | 64QAM      | 19.10      | 19.18  | 19.44  | 21.00              |                    |
|                       |                 | HIGH      | 64QAM      | 19.10      | 19.37  | 19.33  | 21.00              |                    |
|                       | 100             | LOW       | 64QAM      | 19.26      | 19.39  | 19.18  | 21.00              |                    |
|                       | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                       | 15              | 1         | LOW        | QPSK       | 21.30  | 21.17  | 21.32              | 23.00              |
| MID                   |                 |           | QPSK       | 21.43      | 21.43  | 21.13  | 23.00              |                    |
| HIGH                  |                 |           | QPSK       | 21.38      | 21.20  | 21.41  | 23.00              |                    |
| 36                    |                 | LOW       | QPSK       | 21.11      | 21.37  | 21.26  | 23.00              |                    |
|                       |                 | MID       | QPSK       | 21.46      | 21.03  | 21.13  | 23.00              |                    |
|                       |                 | HIGH      | QPSK       | 21.41      | 21.40  | 21.40  | 23.00              |                    |
| 75                    |                 | LOW       | QPSK       | 21.47      | 21.34  | 21.28  | 23.00              |                    |
| 15                    |                 | 1         | LOW        | Q16        | 21.57  | 21.48  | 21.13              | 23.00              |
|                       |                 |           | MID        | Q16        | 21.65  | 21.50  | 21.25              | 23.00              |
|                       | HIGH            |           | Q16        | 21.48      | 21.46  | 21.21  | 23.00              |                    |
|                       | 36              | LOW       | Q16        | 20.24      | 20.26  | 20.26  | 22.00              |                    |
|                       |                 | MID       | Q16        | 20.09      | 20.26  | 20.17  | 22.00              |                    |
|                       |                 | HIGH      | Q16        | 20.42      | 20.31  | 20.43  | 22.00              |                    |
|                       | 75              | LOW       | Q16        | 20.12      | 20.36  | 20.21  | 22.00              |                    |
|                       | 15              | 1         | LOW        | 64QAM      | 20.48  | 20.51  | 20.25              | 22.00              |
|                       |                 |           | MID        | 64QAM      | 20.67  | 20.46  | 20.39              | 22.00              |
| HIGH                  |                 |           | 64QAM      | 20.67      | 20.32  | 20.22  | 22.00              |                    |
| 36                    |                 | LOW       | 64QAM      | 19.18      | 19.31  | 19.30  | 21.00              |                    |
|                       |                 | MID       | 64QAM      | 19.15      | 19.23  | 19.44  | 21.00              |                    |
|                       |                 | HIGH      | 64QAM      | 19.05      | 19.20  | 19.24  | 21.00              |                    |
| 75                    |                 | LOW       | 64QAM      | 19.41      | 19.33  | 19.21  | 21.00              |                    |
| Bandwidth (MHz)       |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                    |                 | 1         | LOW        | QPSK       | 21.27  | 21.16  | 21.26              | 23.00              |
|                       | MID             |           | QPSK       | 21.38      | 21.40  | 21.11  | 23.00              |                    |
|                       | HIGH            |           | QPSK       | 21.29      | 21.22  | 21.28  | 23.00              |                    |
|                       | 50              | LOW       | QPSK       | 21.08      | 21.31  | 21.20  | 23.00              |                    |
|                       |                 | MID       | QPSK       | 21.02      | 21.38  | 21.15  | 23.00              |                    |
|                       |                 | HIGH      | QPSK       | 21.36      | 21.27  | 21.31  | 23.00              |                    |
|                       | 100             | LOW       | QPSK       | 21.38      | 21.24  | 21.13  | 23.00              |                    |
|                       | 20              | 1         | LOW        | Q16        | 21.49  | 21.34  | 21.09              | 23.00              |
|                       |                 |           | MID        | Q16        | 21.61  | 21.53  | 21.23              | 23.00              |
| HIGH                  |                 |           | Q16        | 21.49      | 21.38  | 21.12  | 23.00              |                    |
| 50                    |                 | LOW       | Q16        | 20.12      | 20.27  | 20.15  | 22.00              |                    |
|                       |                 | MID       | Q16        | 20.10      | 20.25  | 20.07  | 22.00              |                    |
|                       |                 | HIGH      | Q16        | 20.38      | 20.21  | 20.29  | 22.00              |                    |
| 100                   |                 | LOW       | Q16        | 20.12      | 20.24  | 20.07  | 22.00              |                    |
| 20                    |                 | 1         | LOW        | 64QAM      | 20.53  | 20.45  | 20.24              | 22.00              |
|                       |                 |           | MID        | 64QAM      | 20.66  | 20.49  | 20.29              | 22.00              |
|                       | HIGH            |           | 64QAM      | 20.55      | 20.25  | 20.27  | 22.00              |                    |
|                       | 50              | LOW       | 64QAM      | 19.20      | 19.36  | 19.18  | 21.00              |                    |
|                       |                 | MID       | 64QAM      | 19.15      | 19.12  | 19.39  | 21.00              |                    |
|                       |                 | HIGH      | 64QAM      | 19.10      | 19.25  | 19.29  | 21.00              |                    |
|                       | 100             | LOW       | 64QAM      | 19.29      | 19.24  | 19.13  | 21.00              |                    |

| LTE B66-State2&4 -Ant.4 |                 |           |            |            |        |        |                    |                    |
|-------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)         | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                     | 1               | LOW       | QPSK       | 16.28      | 16.14  | 16.21  | 18.00              |                    |
|                         |                 | MID       | QPSK       | 16.29      | 16.21  | 16.23  | 18.00              |                    |
|                         |                 | HIGH      | QPSK       | 16.31      | 16.17  | 16.23  | 18.00              |                    |
|                         | 3               | LOW       | QPSK       | 16.30      | 16.20  | 16.27  | 18.00              |                    |
|                         |                 | MID       | QPSK       | 16.31      | 16.19  | 16.31  | 18.00              |                    |
|                         |                 | HIGH      | QPSK       | 16.27      | 16.19  | 16.29  | 18.00              |                    |
|                         | 6               | LOW       | QPSK       | 16.29      | 16.20  | 16.27  | 18.00              |                    |
|                         | 1.4             | 1         | LOW        | Q16        | 16.12  | 16.29  | 16.03              | 18.00              |
|                         |                 |           | MID        | Q16        | 16.12  | 16.25  | 16.06              | 18.00              |
| HIGH                    |                 |           | Q16        | 16.40      | 16.30  | 16.07  | 18.00              |                    |
| 3                       |                 | LOW       | Q16        | 16.34      | 16.10  | 16.15  | 18.00              |                    |
|                         |                 | MID       | Q16        | 16.34      | 16.37  | 16.16  | 18.00              |                    |
|                         |                 | HIGH      | Q16        | 16.35      | 16.36  | 16.14  | 18.00              |                    |
| 6                       |                 | LOW       | Q16        | 16.38      | 16.12  | 16.15  | 18.00              |                    |
| 1.4                     |                 | 1         | LOW        | 64QAM      | 16.24  | 16.23  | 16.16              | 18.00              |
|                         |                 |           | MID        | 64QAM      | 16.28  | 16.35  | 16.16              | 18.00              |
|                         | HIGH            |           | 64QAM      | 16.13      | 16.29  | 16.16  | 18.00              |                    |
|                         | 3               | LOW       | 64QAM      | 16.24      | 16.33  | 16.13  | 18.00              |                    |
|                         |                 | MID       | 64QAM      | 16.34      | 16.34  | 16.19  | 18.00              |                    |
|                         |                 | HIGH      | 64QAM      | 16.21      | 16.15  | 16.16  | 18.00              |                    |
|                         | 6               | LOW       | 64QAM      | 16.23      | 16.12  | 16.02  | 18.00              |                    |
|                         | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                         | 3               | 1         | LOW        | QPSK       | 16.17  | 16.20  | 16.27              | 18.00              |
| MID                     |                 |           | QPSK       | 16.45      | 16.27  | 16.36  | 18.00              |                    |
| HIGH                    |                 |           | QPSK       | 16.22      | 16.24  | 16.13  | 18.00              |                    |
| 8                       |                 | LOW       | QPSK       | 16.28      | 16.33  | 16.17  | 18.00              |                    |
|                         |                 | MID       | QPSK       | 16.03      | 16.22  | 16.31  | 18.00              |                    |
|                         |                 | HIGH      | QPSK       | 16.39      | 16.30  | 16.15  | 18.00              |                    |
| 15                      |                 | LOW       | QPSK       | 16.40      | 16.20  | 16.38  | 18.00              |                    |
| 3                       |                 | 1         | LOW        | Q16        | 16.45  | 16.32  | 16.16              | 18.00              |
|                         |                 |           | MID        | Q16        | 16.62  | 16.45  | 16.07              | 18.00              |
|                         | HIGH            |           | Q16        | 16.37      | 16.27  | 16.28  | 18.00              |                    |
|                         | 8               | LOW       | Q16        | 16.40      | 16.39  | 16.15  | 18.00              |                    |
|                         |                 | MID       | Q16        | 16.32      | 16.30  | 16.20  | 18.00              |                    |
|                         |                 | HIGH      | Q16        | 16.37      | 16.10  | 16.28  | 18.00              |                    |
|                         | 15              | LOW       | Q16        | 16.37      | 16.22  | 16.34  | 18.00              |                    |
|                         | 3               | 1         | LOW        | 64QAM      | 16.38  | 16.46  | 16.34              | 18.00              |
|                         |                 |           | MID        | 64QAM      | 16.44  | 16.71  | 16.12              | 18.00              |
| HIGH                    |                 |           | 64QAM      | 16.68      | 16.22  | 16.05  | 18.00              |                    |
| 8                       |                 | LOW       | 64QAM      | 16.34      | 16.36  | 16.18  | 18.00              |                    |
|                         |                 | MID       | 64QAM      | 16.22      | 16.22  | 16.12  | 18.00              |                    |
|                         |                 | HIGH      | 64QAM      | 16.21      | 16.10  | 16.09  | 18.00              |                    |
| 15                      |                 | LOW       | 64QAM      | 16.22      | 16.15  | 16.13  | 18.00              |                    |
| Bandwidth (MHz)         |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                       |                 | 1         | LOW        | QPSK       | 16.17  | 16.20  | 16.20              | 18.00              |
|                         | MID             |           | QPSK       | 16.42      | 16.27  | 16.26  | 18.00              |                    |
|                         | HIGH            |           | QPSK       | 16.35      | 16.12  | 16.26  | 18.00              |                    |
|                         | 36              | LOW       | QPSK       | 16.38      | 16.35  | 16.07  | 18.00              |                    |
|                         |                 | MID       | QPSK       | 16.15      | 16.27  | 16.39  | 18.00              |                    |
|                         |                 | HIGH      | QPSK       | 16.37      | 16.29  | 16.15  | 18.00              |                    |
|                         | 75              | LOW       | QPSK       | 16.24      | 16.15  | 16.39  | 18.00              |                    |
|                         | 5               | 1         | LOW        | Q16        | 16.48  | 16.36  | 16.23              | 18.00              |
|                         |                 |           | MID        | Q16        | 16.45  | 16.49  | 16.14              | 18.00              |
| HIGH                    |                 |           | Q16        | 16.52      | 16.34  | 16.48  | 18.00              |                    |
| 36                      |                 | LOW       | Q16        | 16.25      | 16.38  | 16.14  | 18.00              |                    |
|                         |                 | MID       | Q16        | 16.47      | 16.31  | 16.12  | 18.00              |                    |
|                         |                 | HIGH      | Q16        | 16.48      | 16.21  | 16.12  | 18.00              |                    |
| 75                      |                 | LOW       | Q16        | 16.36      | 16.24  | 16.31  | 18.00              |                    |
| 5                       |                 | 1         | LOW        | 64QAM      | 16.44  | 16.35  | 16.31              | 18.00              |
|                         |                 |           | MID        | 64QAM      | 16.41  | 16.67  | 16.06              | 18.00              |
|                         | HIGH            |           | 64QAM      | 16.62      | 16.38  | 16.06  | 18.00              |                    |
|                         | 36              | LOW       | 64QAM      | 16.47      | 16.36  | 16.20  | 18.00              |                    |
|                         |                 | MID       | 64QAM      | 16.24      | 16.36  | 16.01  | 18.00              |                    |
|                         |                 | HIGH      | 64QAM      | 16.15      | 16.07  | 16.07  | 18.00              |                    |
|                         | 75              | LOW       | 64QAM      | 16.15      | 16.18  | 16.17  | 18.00              |                    |

| LTE B66-State2&4 -Ant.4 |                 |           |            |            |        |        |                    |                    |
|-------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)         | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                      | 1               | LOW       | QPSK       | 16.12      | 16.09  | 16.17  | 18.00              |                    |
|                         |                 | MID       | QPSK       | 16.33      | 16.29  | 16.32  | 18.00              |                    |
|                         |                 | HIGH      | QPSK       | 16.23      | 16.14  | 16.27  | 18.00              |                    |
|                         | 50              | LOW       | QPSK       | 16.41      | 16.24  | 16.14  | 18.00              |                    |
|                         |                 | MID       | QPSK       | 16.12      | 16.14  | 16.37  | 18.00              |                    |
|                         |                 | HIGH      | QPSK       | 16.28      | 16.13  | 16.20  | 18.00              |                    |
|                         | 100             | LOW       | QPSK       | 16.41      | 16.16  | 16.29  | 18.00              |                    |
|                         | 10              | 1         | LOW        | Q16        | 16.50  | 16.44  | 16.16              | 18.00              |
|                         |                 |           | MID        | Q16        | 16.52  | 16.53  | 16.20              | 18.00              |
| HIGH                    |                 |           | Q16        | 16.49      | 16.38  | 16.34  | 18.00              |                    |
| 50                      |                 | LOW       | Q16        | 16.39      | 16.37  | 16.16  | 18.00              |                    |
|                         |                 | MID       | Q16        | 16.48      | 16.18  | 16.14  | 18.00              |                    |
|                         |                 | HIGH      | Q16        | 16.29      | 16.29  | 16.29  | 18.00              |                    |
| 100                     |                 | LOW       | Q16        | 16.34      | 16.30  | 16.27  | 18.00              |                    |
| 10                      |                 | 1         | LOW        | 64QAM      | 16.31  | 16.33  | 16.31              | 18.00              |
|                         |                 |           | MID        | 64QAM      | 16.52  | 16.64  | 16.07              | 18.00              |
|                         | HIGH            |           | 64QAM      | 16.49      | 16.40  | 16.18  | 18.00              |                    |
|                         | 50              | LOW       | 64QAM      | 16.47      | 16.31  | 16.16  | 18.00              |                    |
|                         |                 | MID       | 64QAM      | 16.30      | 16.28  | 16.09  | 18.00              |                    |
|                         |                 | HIGH      | 64QAM      | 16.32      | 16.11  | 16.16  | 18.00              |                    |
|                         | 100             | LOW       | 64QAM      | 16.14      | 16.27  | 16.28  | 18.00              |                    |
|                         | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                         | 15              | 1         | LOW        | QPSK       | 16.18  | 16.17  | 16.27              | 18.00              |
| MID                     |                 |           | QPSK       | 16.36      | 16.39  | 16.35  | 18.00              |                    |
| HIGH                    |                 |           | QPSK       | 16.30      | 16.26  | 16.27  | 18.00              |                    |
| 36                      |                 | LOW       | QPSK       | 16.41      | 16.29  | 16.09  | 18.00              |                    |
|                         |                 | MID       | QPSK       | 16.11      | 16.24  | 16.49  | 18.00              |                    |
|                         |                 | HIGH      | QPSK       | 16.25      | 16.21  | 16.24  | 18.00              |                    |
| 75                      |                 | LOW       | QPSK       | 16.33      | 16.22  | 16.26  | 18.00              |                    |
| 15                      |                 | 1         | LOW        | Q16        | 16.49  | 16.37  | 16.08              | 18.00              |
|                         |                 |           | MID        | Q16        | 16.57  | 16.60  | 16.12              | 18.00              |
|                         | HIGH            |           | Q16        | 16.44      | 16.41  | 16.36  | 18.00              |                    |
|                         | 36              | LOW       | Q16        | 16.44      | 16.22  | 16.16  | 18.00              |                    |
|                         |                 | MID       | Q16        | 16.34      | 16.20  | 16.14  | 18.00              |                    |
|                         |                 | HIGH      | Q16        | 16.29      | 16.28  | 16.11  | 18.00              |                    |
|                         | 75              | LOW       | Q16        | 16.34      | 16.29  | 16.41  | 18.00              |                    |
|                         | 15              | 1         | LOW        | 64QAM      | 16.33  | 16.39  | 16.40              | 18.00              |
|                         |                 |           | MID        | 64QAM      | 16.54  | 16.64  | 16.18              | 18.00              |
| HIGH                    |                 |           | 64QAM      | 16.58      | 16.31  | 16.21  | 18.00              |                    |
| 36                      |                 | LOW       | 64QAM      | 16.35      | 16.43  | 16.20  | 18.00              |                    |
|                         |                 | MID       | 64QAM      | 16.22      | 16.37  | 16.13  | 18.00              |                    |
|                         |                 | HIGH      | 64QAM      | 16.34      | 16.00  | 16.07  | 18.00              |                    |
| 75                      |                 | LOW       | 64QAM      | 16.20      | 16.13  | 16.25  | 18.00              |                    |
| Bandwidth (MHz)         |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                      |                 | 1         | LOW        | QPSK       | 16.17  | 16.11  | 16.18              | 18.00              |
|                         | MID             |           | QPSK       | 16.30      | 16.31  | 16.30  | 18.00              |                    |
|                         | HIGH            |           | QPSK       | 16.21      | 16.12  | 16.18  | 18.00              |                    |
|                         | 50              | LOW       | QPSK       | 16.30      | 16.20  | 16.08  | 18.00              |                    |
|                         |                 | MID       | QPSK       | 16.02      | 16.34  | 16.17  | 18.00              |                    |
|                         |                 | HIGH      | QPSK       | 16.26      | 16.15  | 16.20  | 18.00              |                    |
|                         | 100             | LOW       | QPSK       | 16.26      | 16.15  | 16.29  | 18.00              |                    |
|                         | 20              | 1         | LOW        | Q16        | 16.35  | 16.29  | 16.03              | 18.00              |
|                         |                 |           | MID        | Q16        | 16.50  | 16.49  | 16.10              | 18.00              |
| HIGH                    |                 |           | Q16        | 16.39      | 16.31  | 16.33  | 18.00              |                    |
| 50                      |                 | LOW       | Q16        | 16.30      | 16.24  | 16.05  | 18.00              |                    |
|                         |                 | MID       | Q16        | 16.36      | 16.21  | 16.00  | 18.00              |                    |
|                         |                 | HIGH      | Q16        | 16.34      | 16.15  | 16.16  | 18.00              |                    |
| 100                     |                 | LOW       | Q16        | 16.31      | 16.16  | 16.28  | 18.00              |                    |
| 20                      |                 | 1         | LOW        | 64QAM      | 16.32  | 16.33  | 16.25              | 18.00              |
|                         |                 |           | MID        | 64QAM      | 16.44  | 16.57  | 16.06              | 18.00              |
|                         | HIGH            |           | 64QAM      | 16.54      | 16.26  | 16.08  | 18.00              |                    |
|                         | 50              | LOW       | 64QAM      | 16.35      | 16.34  | 16.09  | 18.00              |                    |
|                         |                 | MID       | 64QAM      | 16.21      | 16.27  | 16.01  | 18.00              |                    |
|                         |                 | HIGH      | 64QAM      | 16.19      | 16.05  | 16.02  | 18.00              |                    |
|                         | 100             | LOW       | 64QAM      | 16.18      | 16.17  | 16.14  | 18.00              |                    |

| LTE B66-State3&5 -Ant.4 |                 |           |            |            |        |        |                    |                    |
|-------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)         | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                     | 1               | LOW       | QPSK       | 19.55      | 19.74  | 19.79  | 21.50              |                    |
|                         |                 | MID       | QPSK       | 19.53      | 19.73  | 19.80  | 21.50              |                    |
|                         |                 | HIGH      | QPSK       | 19.56      | 19.73  | 19.79  | 21.50              |                    |
|                         | 3               | LOW       | QPSK       | 19.58      | 19.77  | 19.55  | 21.50              |                    |
|                         |                 | MID       | QPSK       | 19.57      | 19.76  | 19.57  | 21.50              |                    |
|                         |                 | HIGH      | QPSK       | 19.55      | 19.74  | 19.55  | 21.50              |                    |
|                         | 6               | LOW       | QPSK       | 19.57      | 19.78  | 19.55  | 21.50              |                    |
|                         | 1.4             | 1         | LOW        | Q16        | 19.67  | 19.86  | 19.61              | 21.50              |
|                         |                 |           | MID        | Q16        | 19.73  | 19.84  | 19.61              | 21.50              |
| HIGH                    |                 |           | Q16        | 19.75      | 19.86  | 19.62  | 21.50              |                    |
| 3                       |                 | LOW       | Q16        | 19.60      | 19.69  | 19.72  | 21.50              |                    |
|                         |                 | MID       | Q16        | 19.61      | 19.64  | 19.74  | 21.50              |                    |
|                         |                 | HIGH      | Q16        | 19.63      | 19.63  | 19.72  | 21.50              |                    |
| 6                       |                 | LOW       | Q16        | 19.70      | 19.69  | 19.73  | 21.50              |                    |
| 1.4                     |                 | 1         | LOW        | 64QAM      | 19.69  | 19.71  | 19.72              | 21.50              |
|                         |                 |           | MID        | 64QAM      | 19.76  | 19.71  | 19.60              | 21.50              |
|                         | HIGH            |           | 64QAM      | 19.68      | 19.90  | 19.72  | 21.50              |                    |
|                         | 3               | LOW       | 64QAM      | 19.69      | 19.63  | 19.59  | 21.50              |                    |
|                         |                 | MID       | 64QAM      | 19.77      | 19.71  | 19.59  | 21.50              |                    |
|                         |                 | HIGH      | 64QAM      | 19.72      | 19.71  | 19.60  | 21.50              |                    |
|                         | 6               | LOW       | 64QAM      | 19.32      | 19.29  | 19.27  | 21.00              |                    |
|                         | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                         | 3               | 1         | LOW        | QPSK       | 19.72  | 19.57  | 19.73              | 21.50              |
| MID                     |                 |           | QPSK       | 19.82      | 19.91  | 19.68  | 21.50              |                    |
| HIGH                    |                 |           | QPSK       | 19.93      | 19.73  | 19.71  | 21.50              |                    |
| 8                       |                 | LOW       | QPSK       | 19.78      | 19.55  | 19.67  | 21.50              |                    |
|                         |                 | MID       | QPSK       | 19.74      | 19.79  | 19.77  | 21.50              |                    |
|                         |                 | HIGH      | QPSK       | 19.87      | 19.82  | 19.78  | 21.50              |                    |
| 15                      |                 | LOW       | QPSK       | 19.81      | 19.83  | 19.69  | 21.50              |                    |
| 3                       |                 | 1         | LOW        | Q16        | 19.97  | 19.97  | 19.57              | 21.50              |
|                         |                 |           | MID        | Q16        | 20.03  | 20.08  | 19.78              | 21.50              |
|                         | HIGH            |           | Q16        | 20.10      | 19.86  | 19.82  | 21.50              |                    |
|                         | 8               | LOW       | Q16        | 19.99      | 19.91  | 19.64  | 21.50              |                    |
|                         |                 | MID       | Q16        | 19.69      | 19.75  | 19.58  | 21.50              |                    |
|                         |                 | HIGH      | Q16        | 19.72      | 19.72  | 19.73  | 21.50              |                    |
|                         | 15              | LOW       | Q16        | 19.70      | 19.79  | 19.59  | 21.50              |                    |
|                         | 3               | 1         | LOW        | 64QAM      | 19.85  | 19.79  | 19.87              | 21.50              |
|                         |                 |           | MID        | 64QAM      | 20.11  | 20.15  | 19.78              | 21.50              |
| HIGH                    |                 |           | 64QAM      | 20.20      | 19.81  | 19.60  | 21.50              |                    |
| 8                       |                 | LOW       | 64QAM      | 19.11      | 19.11  | 19.23  | 21.00              |                    |
|                         |                 | MID       | 64QAM      | 19.33      | 19.32  | 19.27  | 21.00              |                    |
|                         |                 | HIGH      | 64QAM      | 19.14      | 19.50  | 19.23  | 21.00              |                    |
| 15                      |                 | LOW       | 64QAM      | 19.23      | 19.26  | 19.18  | 21.00              |                    |
| Bandwidth (MHz)         |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                       |                 | 1         | LOW        | QPSK       | 19.66  | 19.63  | 19.83              | 21.50              |
|                         | MID             |           | QPSK       | 19.91      | 19.95  | 19.57  | 21.50              |                    |
|                         | HIGH            |           | QPSK       | 19.94      | 19.67  | 19.84  | 21.50              |                    |
|                         | 36              | LOW       | QPSK       | 19.97      | 19.58  | 19.61  | 21.50              |                    |
|                         |                 | MID       | QPSK       | 19.68      | 19.88  | 19.76  | 21.50              |                    |
|                         |                 | HIGH      | QPSK       | 19.91      | 19.90  | 19.83  | 21.50              |                    |
|                         | 75              | LOW       | QPSK       | 19.99      | 19.79  | 19.69  | 21.50              |                    |
|                         | 5               | 1         | LOW        | Q16        | 20.02  | 19.83  | 19.56              | 21.50              |
|                         |                 |           | MID        | Q16        | 20.18  | 20.18  | 19.73              | 21.50              |
| HIGH                    |                 |           | Q16        | 19.96      | 19.97  | 19.83  | 21.50              |                    |
| 36                      |                 | LOW       | Q16        | 19.93      | 19.87  | 19.64  | 21.50              |                    |
|                         |                 | MID       | Q16        | 19.64      | 19.82  | 19.69  | 21.50              |                    |
|                         |                 | HIGH      | Q16        | 19.67      | 19.88  | 19.90  | 21.50              |                    |
| 75                      |                 | LOW       | Q16        | 19.59      | 19.82  | 19.56  | 21.50              |                    |
| 5                       |                 | 1         | LOW        | 64QAM      | 20.00  | 19.93  | 19.92              | 21.50              |
|                         |                 |           | MID        | 64QAM      | 20.02  | 20.19  | 19.68              | 21.50              |
|                         | HIGH            |           | 64QAM      | 20.18      | 19.78  | 19.71  | 21.50              |                    |
|                         | 36              | LOW       | 64QAM      | 19.15      | 19.04  | 19.34  | 21.00              |                    |
|                         |                 | MID       | 64QAM      | 19.31      | 19.33  | 19.35  | 21.00              |                    |
|                         |                 | HIGH      | 64QAM      | 19.23      | 19.41  | 19.30  | 21.00              |                    |
|                         | 75              | LOW       | 64QAM      | 19.21      | 19.24  | 19.08  | 21.00              |                    |

| LTE B66-State3&5 -Ant.4 |                 |           |            |            |        |        |                    |                    |
|-------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)         | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                      | 1               | LOW       | QPSK       | 19.72      | 19.59  | 19.79  | 21.50              |                    |
|                         |                 | MID       | QPSK       | 19.85      | 19.91  | 19.59  | 21.50              |                    |
|                         |                 | HIGH      | QPSK       | 19.90      | 19.84  | 19.73  | 21.50              |                    |
|                         | 50              | LOW       | QPSK       | 19.84      | 19.98  | 19.68  | 21.50              |                    |
|                         |                 | MID       | QPSK       | 19.58      | 19.75  | 19.79  | 21.50              |                    |
|                         |                 | HIGH      | QPSK       | 19.94      | 19.84  | 19.71  | 21.50              |                    |
|                         | 100             | LOW       | QPSK       | 20.00      | 19.75  | 19.61  | 21.50              |                    |
|                         | 10              | 1         | LOW        | Q16        | 20.01  | 19.94  | 19.61              | 21.50              |
|                         |                 |           | MID        | Q16        | 20.02  | 20.10  | 19.74              | 21.50              |
| HIGH                    |                 |           | Q16        | 20.10      | 19.87  | 19.83  | 21.50              |                    |
| 50                      |                 | LOW       | Q16        | 19.92      | 19.88  | 19.67  | 21.50              |                    |
|                         |                 | MID       | Q16        | 19.77      | 19.79  | 19.67  | 21.50              |                    |
|                         |                 | HIGH      | Q16        | 19.69      | 19.89  | 19.78  | 21.50              |                    |
| 100                     |                 | LOW       | Q16        | 19.59      | 19.70  | 19.63  | 21.50              |                    |
| 10                      |                 | 1         | LOW        | 64QAM      | 19.95  | 19.76  | 19.78              | 21.50              |
|                         |                 |           | MID        | 64QAM      | 20.08  | 20.18  | 19.68              | 21.50              |
|                         | HIGH            |           | 64QAM      | 20.11      | 19.93  | 19.64  | 21.50              |                    |
|                         | 50              | LOW       | 64QAM      | 19.11      | 19.11  | 19.36  | 21.00              |                    |
|                         |                 | MID       | 64QAM      | 19.22      | 19.38  | 19.38  | 21.00              |                    |
|                         |                 | HIGH      | 64QAM      | 19.19      | 19.40  | 19.40  | 21.00              |                    |
|                         | 100             | LOW       | 64QAM      | 19.22      | 19.19  | 19.12  | 21.00              |                    |
|                         | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                         | 15              | 1         | LOW        | QPSK       | 19.67  | 19.72  | 19.73              | 21.50              |
| MID                     |                 |           | QPSK       | 19.91      | 19.83  | 19.61  | 21.50              |                    |
| HIGH                    |                 |           | QPSK       | 19.75      | 19.77  | 19.69  | 21.50              |                    |
| 36                      |                 | LOW       | QPSK       | 19.89      | 19.62  | 19.67  | 21.50              |                    |
|                         |                 | MID       | QPSK       | 19.76      | 19.83  | 19.74  | 21.50              |                    |
|                         |                 | HIGH      | QPSK       | 19.83      | 19.73  | 19.85  | 21.50              |                    |
| 75                      |                 | LOW       | QPSK       | 19.84      | 19.71  | 19.56  | 21.50              |                    |
| 15                      |                 | 1         | LOW        | Q16        | 19.97  | 19.98  | 19.65              | 21.50              |
|                         |                 |           | MID        | Q16        | 20.17  | 20.01  | 19.84              | 21.50              |
|                         | HIGH            |           | Q16        | 20.07      | 19.98  | 19.89  | 21.50              |                    |
|                         | 36              | LOW       | Q16        | 19.92      | 19.79  | 19.74  | 21.50              |                    |
|                         |                 | MID       | Q16        | 19.72      | 19.73  | 19.66  | 21.50              |                    |
|                         |                 | HIGH      | Q16        | 19.61      | 19.75  | 19.83  | 21.50              |                    |
|                         | 75              | LOW       | Q16        | 19.55      | 19.75  | 19.69  | 21.50              |                    |
|                         | 15              | 1         | LOW        | 64QAM      | 19.82  | 19.96  | 19.77              | 21.50              |
|                         |                 |           | MID        | 64QAM      | 19.99  | 20.10  | 19.79              | 21.50              |
| HIGH                    |                 |           | 64QAM      | 20.05      | 19.96  | 19.58  | 21.50              |                    |
| 36                      |                 | LOW       | 64QAM      | 19.12      | 19.02  | 19.30  | 21.00              |                    |
|                         |                 | MID       | 64QAM      | 19.21      | 19.45  | 19.31  | 21.00              |                    |
|                         |                 | HIGH      | 64QAM      | 19.25      | 19.37  | 19.38  | 21.00              |                    |
| 75                      |                 | LOW       | 64QAM      | 19.15      | 19.30  | 19.08  | 21.00              |                    |
| Bandwidth (MHz)         |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                      |                 | 1         | LOW        | QPSK       | 19.71  | 19.61  | 19.76              | 21.50              |
|                         | MID             |           | QPSK       | 19.85      | 19.87  | 19.56  | 21.50              |                    |
|                         | HIGH            |           | QPSK       | 19.80      | 19.71  | 19.74  | 21.50              |                    |
|                         | 50              | LOW       | QPSK       | 19.83      | 19.51  | 19.63  | 21.50              |                    |
|                         |                 | MID       | QPSK       | 19.62      | 19.73  | 19.64  | 21.50              |                    |
|                         |                 | HIGH      | QPSK       | 19.76      | 19.84  | 19.75  | 21.50              |                    |
|                         | 100             | LOW       | QPSK       | 19.86      | 19.69  | 19.57  | 21.50              |                    |
|                         | 20              | 1         | LOW        | Q16        | 19.95  | 19.87  | 19.61              | 21.50              |
|                         |                 |           | MID        | Q16        | 20.07  | 20.04  | 19.72              | 21.50              |
| HIGH                    |                 |           | Q16        | 19.99      | 19.90  | 19.87  | 21.50              |                    |
| 50                      |                 | LOW       | Q16        | 19.86      | 19.84  | 19.63  | 21.50              |                    |
|                         |                 | MID       | Q16        | 19.65      | 19.73  | 19.60  | 21.50              |                    |
|                         |                 | HIGH      | Q16        | 19.62      | 19.75  | 19.76  | 21.50              |                    |
| 100                     |                 | LOW       | Q16        | 19.59      | 19.72  | 19.55  | 21.50              |                    |
| 20                      |                 | 1         | LOW        | 64QAM      | 19.85  | 19.81  | 19.79              | 21.50              |
|                         |                 |           | MID        | 64QAM      | 20.02  | 20.11  | 19.70              | 21.50              |
|                         | HIGH            |           | 64QAM      | 20.10      | 19.82  | 19.58  | 21.50              |                    |
|                         | 50              | LOW       | 64QAM      | 19.12      | 19.04  | 19.22  | 21.00              |                    |
|                         |                 | MID       | 64QAM      | 19.20      | 19.35  | 19.24  | 21.00              |                    |
|                         |                 | HIGH      | 64QAM      | 19.12      | 19.36  | 19.26  | 21.00              |                    |
|                         | 100             | LOW       | 64QAM      | 19.12      | 19.23  | 19.03  | 21.00              |                    |

| LTE B66-State6 -Ant.4 |                 |           |            |            |        |        |                    |                    |
|-----------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)       | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                   | 1               | LOW       | QPSK       | 15.28      | 15.16  | 15.03  | 17.00              |                    |
|                       |                 | MID       | QPSK       | 15.26      | 15.17  | 15.10  | 17.00              |                    |
|                       |                 | HIGH      | QPSK       | 15.27      | 15.15  | 15.09  | 17.00              |                    |
|                       | 3               | LOW       | QPSK       | 15.30      | 15.17  | 15.12  | 17.00              |                    |
|                       |                 | MID       | QPSK       | 15.32      | 15.17  | 15.12  | 17.00              |                    |
|                       |                 | HIGH      | QPSK       | 15.27      | 15.15  | 15.14  | 17.00              |                    |
|                       | 6               | LOW       | QPSK       | 15.31      | 15.19  | 15.12  | 17.00              |                    |
|                       | 1.4             | 1         | LOW        | Q16        | 15.42  | 15.57  | 15.15              | 17.00              |
|                       |                 |           | MID        | Q16        | 15.10  | 15.21  | 15.19              | 17.00              |
| HIGH                  |                 |           | Q16        | 15.47      | 15.26  | 15.20  | 17.00              |                    |
| 3                     |                 | LOW       | Q16        | 15.33      | 15.37  | 15.29  | 17.00              |                    |
|                       |                 | MID       | Q16        | 15.35      | 15.34  | 15.31  | 17.00              |                    |
|                       |                 | HIGH      | Q16        | 15.35      | 15.33  | 15.29  | 17.00              |                    |
| 6                     |                 | LOW       | Q16        | 15.39      | 15.07  | 15.29  | 17.00              |                    |
| 1.4                   |                 | 1         | LOW        | 64QAM      | 15.45  | 15.20  | 15.13              | 17.00              |
|                       |                 |           | MID        | 64QAM      | 15.44  | 15.13  | 15.13              | 17.00              |
|                       | HIGH            |           | 64QAM      | 15.12      | 15.18  | 15.15  | 17.00              |                    |
|                       | 3               | LOW       | 64QAM      | 15.13      | 15.23  | 15.34  | 17.00              |                    |
|                       |                 | MID       | 64QAM      | 15.16      | 15.33  | 15.27  | 17.00              |                    |
|                       |                 | HIGH      | 64QAM      | 15.17      | 15.32  | 15.21  | 17.00              |                    |
|                       | 6               | LOW       | 64QAM      | 15.06      | 15.16  | 15.11  | 17.00              |                    |
|                       | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                       | 3               | 1         | LOW        | QPSK       | 15.15  | 15.23  | 15.24              | 17.00              |
| MID                   |                 |           | QPSK       | 15.38      | 15.29  | 15.11  | 17.00              |                    |
| HIGH                  |                 |           | QPSK       | 15.34      | 15.10  | 15.38  | 17.00              |                    |
| 8                     |                 | LOW       | QPSK       | 15.24      | 15.21  | 15.24  | 17.00              |                    |
|                       |                 | MID       | QPSK       | 15.44      | 15.14  | 15.18  | 17.00              |                    |
|                       |                 | HIGH      | QPSK       | 15.27      | 15.09  | 15.11  | 17.00              |                    |
| 15                    |                 | LOW       | QPSK       | 15.39      | 15.27  | 15.12  | 17.00              |                    |
| 3                     |                 | 1         | LOW        | Q16        | 15.38  | 15.21  | 15.45              | 17.00              |
|                       |                 |           | MID        | Q16        | 15.56  | 15.48  | 15.36              | 17.00              |
|                       | HIGH            |           | Q16        | 15.35      | 15.35  | 15.25  | 17.00              |                    |
|                       | 8               | LOW       | Q16        | 15.30      | 15.31  | 15.18  | 17.00              |                    |
|                       |                 | MID       | Q16        | 15.45      | 15.19  | 15.15  | 17.00              |                    |
|                       |                 | HIGH      | Q16        | 15.43      | 15.21  | 15.41  | 17.00              |                    |
|                       | 15              | LOW       | Q16        | 15.38      | 15.20  | 15.19  | 17.00              |                    |
|                       | 3               | 1         | LOW        | 64QAM      | 15.20  | 15.28  | 15.31              | 17.00              |
|                       |                 |           | MID        | 64QAM      | 15.55  | 15.66  | 15.14              | 17.00              |
| HIGH                  |                 |           | 64QAM      | 15.49      | 15.16  | 15.27  | 17.00              |                    |
| 8                     |                 | LOW       | 64QAM      | 15.14      | 15.37  | 15.08  | 17.00              |                    |
|                       |                 | MID       | 64QAM      | 15.30      | 15.09  | 15.13  | 17.00              |                    |
|                       |                 | HIGH      | 64QAM      | 15.23      | 15.32  | 15.40  | 17.00              |                    |
| 15                    |                 | LOW       | 64QAM      | 15.35      | 15.37  | 15.37  | 17.00              |                    |
| Bandwidth (MHz)       |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                     |                 | 1         | LOW        | QPSK       | 15.27  | 15.23  | 15.34              | 17.00              |
|                       | MID             |           | QPSK       | 15.43      | 15.39  | 15.12  | 17.00              |                    |
|                       | HIGH            |           | QPSK       | 15.33      | 15.23  | 15.34  | 17.00              |                    |
|                       | 36              | LOW       | QPSK       | 15.28      | 15.29  | 15.16  | 17.00              |                    |
|                       |                 | MID       | QPSK       | 15.28      | 15.28  | 15.26  | 17.00              |                    |
|                       |                 | HIGH      | QPSK       | 15.31      | 15.09  | 15.20  | 17.00              |                    |
|                       | 75              | LOW       | QPSK       | 15.40      | 15.12  | 15.13  | 17.00              |                    |
|                       | 5               | 1         | LOW        | Q16        | 15.31  | 15.21  | 15.45              | 17.00              |
|                       |                 |           | MID        | Q16        | 15.61  | 15.45  | 15.25              | 17.00              |
| HIGH                  |                 |           | Q16        | 15.45      | 15.28  | 15.21  | 17.00              |                    |
| 36                    |                 | LOW       | Q16        | 15.27      | 15.33  | 15.23  | 17.00              |                    |
|                       |                 | MID       | Q16        | 15.38      | 15.35  | 15.19  | 17.00              |                    |
|                       |                 | HIGH      | Q16        | 15.40      | 15.14  | 15.42  | 17.00              |                    |
| 75                    |                 | LOW       | Q16        | 15.31      | 15.15  | 15.10  | 17.00              |                    |
| 5                     |                 | 1         | LOW        | 64QAM      | 15.20  | 15.25  | 15.19              | 17.00              |
|                       |                 |           | MID        | 64QAM      | 15.53  | 15.70  | 15.29              | 17.00              |
|                       | HIGH            |           | 64QAM      | 15.54      | 15.13  | 15.29  | 17.00              |                    |
|                       | 36              | LOW       | 64QAM      | 15.17      | 15.28  | 15.01  | 17.00              |                    |
|                       |                 | MID       | 64QAM      | 15.47      | 15.21  | 15.20  | 17.00              |                    |
|                       |                 | HIGH      | 64QAM      | 15.32      | 15.43  | 15.36  | 17.00              |                    |
|                       | 75              | LOW       | 64QAM      | 15.39      | 15.42  | 15.32  | 17.00              |                    |

| LTE B66-State6 -Ant.4 |                 |           |            |            |        |        |                    |                    |
|-----------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)       | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                    | 1               | LOW       | QPSK       | 15.25      | 15.20  | 15.21  | 17.00              |                    |
|                       |                 | MID       | QPSK       | 15.37      | 15.28  | 15.19  | 17.00              |                    |
|                       |                 | HIGH      | QPSK       | 15.18      | 15.13  | 15.43  | 17.00              |                    |
|                       | 50              | LOW       | QPSK       | 15.36      | 15.34  | 15.22  | 17.00              |                    |
|                       |                 | MID       | QPSK       | 15.37      | 15.21  | 15.28  | 17.00              |                    |
|                       |                 | HIGH      | QPSK       | 15.37      | 15.21  | 15.22  | 17.00              |                    |
|                       | 100             | LOW       | QPSK       | 15.38      | 15.20  | 15.24  | 17.00              |                    |
|                       | 10              | 1         | LOW        | Q16        | 15.40  | 15.21  | 15.34              | 17.00              |
|                       |                 |           | MID        | Q16        | 15.50  | 15.58  | 15.33              | 17.00              |
| HIGH                  |                 |           | Q16        | 15.44      | 15.41  | 15.27  | 17.00              |                    |
| 50                    |                 | LOW       | Q16        | 15.42      | 15.30  | 15.17  | 17.00              |                    |
|                       |                 | MID       | Q16        | 15.46      | 15.27  | 15.24  | 17.00              |                    |
|                       |                 | HIGH      | Q16        | 15.36      | 15.30  | 15.36  | 17.00              |                    |
| 100                   |                 | LOW       | Q16        | 15.44      | 15.25  | 15.13  | 17.00              |                    |
| 10                    |                 | 1         | LOW        | 64QAM      | 15.32  | 15.27  | 15.29              | 17.00              |
|                       |                 |           | MID        | 64QAM      | 15.51  | 15.57  | 15.17              | 17.00              |
|                       | HIGH            |           | 64QAM      | 15.42      | 15.28  | 15.31  | 17.00              |                    |
|                       | 50              | LOW       | 64QAM      | 15.19      | 15.24  | 15.08  | 17.00              |                    |
|                       |                 | MID       | 64QAM      | 15.32      | 15.15  | 15.25  | 17.00              |                    |
|                       |                 | HIGH      | 64QAM      | 15.37      | 15.26  | 15.33  | 17.00              |                    |
|                       | 100             | LOW       | 64QAM      | 15.43      | 15.22  | 15.39  | 17.00              |                    |
|                       | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                       | 15              | 1         | LOW        | QPSK       | 15.27  | 15.19  | 15.21              | 17.00              |
| MID                   |                 |           | QPSK       | 15.45      | 15.38  | 15.29  | 17.00              |                    |
| HIGH                  |                 |           | QPSK       | 15.18      | 15.16  | 15.35  | 17.00              |                    |
| 36                    |                 | LOW       | QPSK       | 15.28      | 15.29  | 15.26  | 17.00              |                    |
|                       |                 | MID       | QPSK       | 15.46      | 15.32  | 15.32  | 17.00              |                    |
|                       |                 | HIGH      | QPSK       | 15.46      | 15.26  | 15.15  | 17.00              |                    |
| 75                    |                 | LOW       | QPSK       | 15.32      | 15.28  | 15.10  | 17.00              |                    |
| 15                    |                 | 1         | LOW        | Q16        | 15.43  | 15.21  | 15.30              | 17.00              |
|                       |                 |           | MID        | Q16        | 15.58  | 15.63  | 15.40              | 17.00              |
|                       | HIGH            |           | Q16        | 15.40      | 15.28  | 15.27  | 17.00              |                    |
|                       | 36              | LOW       | Q16        | 15.35      | 15.19  | 15.28  | 17.00              |                    |
|                       |                 | MID       | Q16        | 15.32      | 15.34  | 15.20  | 17.00              |                    |
|                       |                 | HIGH      | Q16        | 15.42      | 15.30  | 15.43  | 17.00              |                    |
|                       | 75              | LOW       | Q16        | 15.39      | 15.21  | 15.20  | 17.00              |                    |
|                       | 15              | 1         | LOW        | 64QAM      | 15.23  | 15.25  | 15.18              | 17.00              |
|                       |                 |           | MID        | 64QAM      | 15.57  | 15.55  | 15.28              | 17.00              |
| HIGH                  |                 |           | 64QAM      | 15.50      | 15.30  | 15.42  | 17.00              |                    |
| 36                    |                 | LOW       | 64QAM      | 15.26      | 15.36  | 15.18  | 17.00              |                    |
|                       |                 | MID       | 64QAM      | 15.41      | 15.26  | 15.25  | 17.00              |                    |
|                       |                 | HIGH      | 64QAM      | 15.35      | 15.34  | 15.33  | 17.00              |                    |
| 75                    |                 | LOW       | 64QAM      | 15.41      | 15.24  | 15.24  | 17.00              |                    |
| Bandwidth (MHz)       |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                    |                 | 1         | LOW        | QPSK       | 15.18  | 15.10  | 15.23              | 17.00              |
|                       | MID             |           | QPSK       | 15.31      | 15.35  | 15.15  | 17.00              |                    |
|                       | HIGH            |           | QPSK       | 15.21      | 15.13  | 15.31  | 17.00              |                    |
|                       | 50              | LOW       | QPSK       | 15.27      | 15.21  | 15.20  | 17.00              |                    |
|                       |                 | MID       | QPSK       | 15.31      | 15.33  | 15.17  | 17.00              |                    |
|                       |                 | HIGH      | QPSK       | 15.31      | 15.14  | 15.09  | 17.00              |                    |
|                       | 100             | LOW       | QPSK       | 15.27      | 15.15  | 15.15  | 17.00              |                    |
|                       | 20              | 1         | LOW        | Q16        | 15.34  | 15.26  | 15.33              | 17.00              |
|                       |                 |           | MID        | Q16        | 15.46  | 15.49  | 15.25              | 17.00              |
| HIGH                  |                 |           | Q16        | 15.35      | 15.26  | 15.18  | 17.00              |                    |
| 50                    |                 | LOW       | Q16        | 15.29      | 15.22  | 15.21  | 17.00              |                    |
|                       |                 | MID       | Q16        | 15.35      | 15.21  | 15.14  | 17.00              |                    |
|                       |                 | HIGH      | Q16        | 15.31      | 15.16  | 15.31  | 17.00              |                    |
| 100                   |                 | LOW       | Q16        | 15.31      | 15.16  | 15.14  | 17.00              |                    |
| 20                    |                 | 1         | LOW        | 64QAM      | 15.25  | 15.29  | 15.23              | 17.00              |
|                       |                 |           | MID        | 64QAM      | 15.51  | 15.57  | 15.19              | 17.00              |
|                       | HIGH            |           | 64QAM      | 15.41      | 15.16  | 15.28  | 17.00              |                    |
|                       | 50              | LOW       | 64QAM      | 15.16      | 15.22  | 15.03  | 17.00              |                    |
|                       |                 | MID       | 64QAM      | 15.34      | 15.13  | 15.17  | 17.00              |                    |
|                       |                 | HIGH      | 64QAM      | 15.23      | 15.29  | 15.38  | 17.00              |                    |
|                       | 100             | LOW       | 64QAM      | 15.31      | 15.27  | 15.24  | 17.00              |                    |

### 8.3.9 LTE Band66 Output Power

BL-SZ2320168-701

| LTE B66-Full Power -Ant.3 |                 |           |            |            |        |        |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                       | 1               | LOW       | QPSK       | 23.31      | 23.39  | 23.28  | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.29      | 23.42  | 23.31  | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.33      | 23.38  | 23.31  | 24.00              |                    |
|                           | 3               | LOW       | QPSK       | 23.36      | 23.44  | 23.36  | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.38      | 23.43  | 23.38  | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.35      | 23.39  | 23.36  | 24.00              |                    |
|                           | 6               | LOW       | QPSK       | 22.33      | 22.42  | 22.33  | 23.00              |                    |
|                           | 1.4             | 1         | LOW        | Q16        | 22.47  | 22.80  | 22.40              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.49  | 22.81  | 22.40              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.49      | 22.83  | 22.42  | 23.00              |                    |
| 3                         |                 | LOW       | Q16        | 22.39      | 22.62  | 22.51  | 23.00              |                    |
|                           |                 | MID       | Q16        | 22.41      | 22.61  | 22.49  | 23.00              |                    |
|                           |                 | HIGH      | Q16        | 22.40      | 22.60  | 22.51  | 23.00              |                    |
| 6                         |                 | LOW       | Q16        | 21.48      | 21.30  | 21.52  | 22.00              |                    |
| 1.4                       |                 | 1         | LOW        | 64QAM      | 21.46  | 21.86  | 21.53              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.41  | 21.73  | 21.53              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.41      | 21.72  | 21.49  | 22.00              |                    |
|                           | 3               | LOW       | 64QAM      | 21.44      | 21.55  | 21.39  | 22.00              |                    |
|                           |                 | MID       | 64QAM      | 21.34      | 21.75  | 21.41  | 22.00              |                    |
|                           |                 | HIGH      | 64QAM      | 21.52      | 21.72  | 21.46  | 22.00              |                    |
|                           | 6               | LOW       | 64QAM      | 20.51      | 20.33  | 20.38  | 21.00              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                           | 3               | 1         | LOW        | QPSK       | 23.07  | 23.10  | 23.16              | 24.00              |
| MID                       |                 |           | QPSK       | 23.52      | 23.41  | 23.36  | 24.00              |                    |
| HIGH                      |                 |           | QPSK       | 23.24      | 23.26  | 23.06  | 24.00              |                    |
| 8                         |                 | LOW       | QPSK       | 22.33      | 22.44  | 22.62  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.50      | 22.39  | 22.55  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.35      | 22.36  | 22.26  | 23.00              |                    |
| 15                        |                 | LOW       | QPSK       | 22.30      | 22.28  | 22.51  | 23.00              |                    |
| 3                         |                 | 1         | LOW        | Q16        | 22.79  | 22.80  | 22.76              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.91  | 22.89  | 22.87              | 23.00              |
|                           | HIGH            |           | Q16        | 22.76      | 22.88  | 22.72  | 23.00              |                    |
|                           | 8               | LOW       | Q16        | 21.24      | 21.35  | 21.39  | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.38      | 21.46  | 21.29  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.40      | 21.45  | 21.21  | 22.00              |                    |
|                           | 15              | LOW       | Q16        | 21.29      | 21.34  | 21.42  | 22.00              |                    |
|                           | 3               | 1         | LOW        | 64QAM      | 21.72  | 21.74  | 21.73              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.64  | 21.78  | 21.70              | 22.00              |
| HIGH                      |                 |           | 64QAM      | 21.99      | 21.84  | 21.60  | 22.00              |                    |
| 8                         |                 | LOW       | 64QAM      | 20.34      | 20.39  | 20.40  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.14      | 20.18  | 20.39  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.45      | 20.27  | 20.45  | 21.00              |                    |
| 15                        |                 | LOW       | 64QAM      | 20.31      | 20.49  | 20.58  | 21.00              |                    |
| Bandwidth (MHz)           |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                         |                 | 1         | LOW        | QPSK       | 23.33  | 23.35  | 23.07              | 24.00              |
|                           | MID             |           | QPSK       | 23.36      | 23.39  | 23.35  | 24.00              |                    |
|                           | HIGH            |           | QPSK       | 23.32      | 23.43  | 23.11  | 24.00              |                    |
|                           | 36              | LOW       | QPSK       | 22.43      | 22.33  | 22.34  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.41      | 22.51  | 22.38  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.42      | 22.35  | 22.36  | 23.00              |                    |
|                           | 75              | LOW       | QPSK       | 22.41      | 22.37  | 22.26  | 23.00              |                    |
|                           | 5               | 1         | LOW        | Q16        | 22.67  | 22.68  | 22.76              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.90  | 22.93  | 22.93              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.95      | 22.91  | 22.62  | 23.00              |                    |
| 36                        |                 | LOW       | Q16        | 21.36      | 21.54  | 21.33  | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.47      | 21.43  | 21.47  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.37      | 21.42  | 21.29  | 22.00              |                    |
| 75                        |                 | LOW       | Q16        | 21.44      | 21.46  | 21.50  | 22.00              |                    |
| 5                         |                 | 1         | LOW        | 64QAM      | 21.64  | 21.82  | 21.61              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.88  | 21.80  | 21.86              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.93      | 21.86  | 21.57  | 22.00              |                    |
|                           | 36              | LOW       | 64QAM      | 20.17      | 20.42  | 20.40  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.19      | 20.11  | 20.43  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.57      | 20.30  | 20.35  | 21.00              |                    |
|                           | 75              | LOW       | 64QAM      | 20.42      | 20.33  | 20.37  | 21.00              |                    |



| LTE B66-Full Power -Ant.3 |                 |           |            |            |        |        |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                        | 1               | LOW       | QPSK       | 23.14      | 23.39  | 23.23  | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.47      | 23.63  | 23.20  | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.50      | 23.27  | 23.32  | 24.00              |                    |
|                           | 50              | LOW       | QPSK       | 22.45      | 22.41  | 22.34  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.39      | 22.48  | 22.51  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.52      | 22.50  | 22.25  | 23.00              |                    |
|                           | 100             | LOW       | QPSK       | 22.36      | 22.33  | 22.36  | 23.00              |                    |
|                           | 10              | 1         | LOW        | Q16        | 22.82  | 22.72  | 22.58              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.82  | 22.83  | 22.85              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.73      | 22.67  | 22.78  | 23.00              |                    |
| 50                        |                 | LOW       | Q16        | 21.45      | 21.46  | 21.43  | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.47      | 21.28  | 21.38  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.33      | 21.29  | 21.21  | 22.00              |                    |
| 100                       |                 | LOW       | Q16        | 21.39      | 21.38  | 21.37  | 22.00              |                    |
| 10                        |                 | 1         | LOW        | 64QAM      | 21.80  | 21.56  | 21.47              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.60  | 21.85  | 21.83              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.86      | 21.72  | 21.67  | 22.00              |                    |
|                           | 50              | LOW       | 64QAM      | 20.43      | 20.37  | 20.41  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.35      | 20.22  | 20.53  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.40      | 20.51  | 20.39  | 21.00              |                    |
|                           | 100             | LOW       | 64QAM      | 20.37      | 20.29  | 20.46  | 21.00              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                           | 15              | 1         | LOW        | QPSK       | 23.36  | 23.38  | 23.27              | 24.00              |
| MID                       |                 |           | QPSK       | 23.47      | 23.38  | 23.35  | 24.00              |                    |
| HIGH                      |                 |           | QPSK       | 23.39      | 23.35  | 23.20  | 24.00              |                    |
| 36                        |                 | LOW       | QPSK       | 22.35      | 22.44  | 22.55  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.45      | 22.52  | 22.53  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.29      | 22.40  | 22.46  | 23.00              |                    |
| 75                        |                 | LOW       | QPSK       | 22.25      | 22.46  | 22.33  | 23.00              |                    |
| 15                        |                 | 1         | LOW        | Q16        | 22.69  | 22.59  | 22.73              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.68  | 22.95  | 22.69              | 23.00              |
|                           | HIGH            |           | Q16        | 22.90      | 22.80  | 22.82  | 23.00              |                    |
|                           | 36              | LOW       | Q16        | 21.49      | 21.46  | 21.52  | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.55      | 21.34  | 21.46  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.32      | 21.27  | 21.29  | 22.00              |                    |
|                           | 75              | LOW       | Q16        | 21.39      | 21.54  | 21.35  | 22.00              |                    |
|                           | 15              | 1         | LOW        | 64QAM      | 21.68  | 21.65  | 21.75              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.78  | 21.84  | 21.69              | 22.00              |
| HIGH                      |                 |           | 64QAM      | 21.93      | 21.87  | 21.46  | 22.00              |                    |
| 36                        |                 | LOW       | 64QAM      | 20.26      | 20.39  | 20.37  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.18      | 20.36  | 20.60  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.57      | 20.26  | 20.49  | 21.00              |                    |
| 75                        |                 | LOW       | 64QAM      | 20.30      | 20.46  | 20.39  | 21.00              |                    |
| Bandwidth (MHz)           |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                        |                 | 1         | LOW        | QPSK       | 23.22  | 23.25  | 23.18              | 24.00              |
|                           | MID             |           | QPSK       | 23.49      | 23.44  | 23.34  | 24.00              |                    |
|                           | HIGH            |           | QPSK       | 23.35      | 23.35  | 23.21  | 24.00              |                    |
|                           | 50              | LOW       | QPSK       | 22.36      | 22.40  | 22.40  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.47      | 22.43  | 22.42  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.41      | 22.40  | 22.34  | 23.00              |                    |
|                           | 100             | LOW       | QPSK       | 22.34      | 22.43  | 22.40  | 23.00              |                    |
|                           | 20              | 1         | LOW        | Q16        | 22.75  | 22.69  | 22.63              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.83  | 22.92  | 22.80              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.86      | 22.77  | 22.67  | 23.00              |                    |
| 50                        |                 | LOW       | Q16        | 21.37      | 21.44  | 21.43  | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.40      | 21.38  | 21.33  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.44      | 21.42  | 21.25  | 22.00              |                    |
| 100                       |                 | LOW       | Q16        | 21.42      | 21.40  | 21.39  | 22.00              |                    |
| 20                        |                 | 1         | LOW        | 64QAM      | 21.70  | 21.68  | 21.61              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.73  | 21.93  | 21.74              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.89      | 21.82  | 21.60  | 22.00              |                    |
|                           | 50              | LOW       | 64QAM      | 20.32      | 20.29  | 20.28  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.28      | 20.26  | 20.45  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.53      | 20.38  | 20.38  | 21.00              |                    |
|                           | 100             | LOW       | 64QAM      | 20.43      | 20.38  | 20.47  | 21.00              |                    |

| LTE B66-State1&3 -Ant.3 |                 |           |            |            |        |        |                    |                    |
|-------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)         | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                     | 1               | LOW       | QPSK       | 21.16      | 21.22  | 21.13  | 22.00              |                    |
|                         |                 | MID       | QPSK       | 21.15      | 21.24  | 21.18  | 22.00              |                    |
|                         |                 | HIGH      | QPSK       | 21.18      | 21.26  | 21.15  | 22.00              |                    |
|                         | 3               | LOW       | QPSK       | 21.21      | 21.26  | 21.20  | 22.00              |                    |
|                         |                 | MID       | QPSK       | 21.20      | 21.25  | 21.20  | 22.00              |                    |
|                         |                 | HIGH      | QPSK       | 21.19      | 21.27  | 21.20  | 22.00              |                    |
|                         | 6               | LOW       | QPSK       | 21.21      | 21.30  | 21.16  | 22.00              |                    |
|                         | 1.4             | 1         | LOW        | Q16        | 21.31  | 21.65  | 21.23              | 22.00              |
|                         |                 |           | MID        | Q16        | 21.35  | 21.65  | 21.24              | 22.00              |
| HIGH                    |                 |           | Q16        | 21.32      | 21.65  | 21.26  | 22.00              |                    |
| 3                       |                 | LOW       | Q16        | 21.22      | 21.46  | 21.37  | 22.00              |                    |
|                         |                 | MID       | Q16        | 21.23      | 21.45  | 21.38  | 22.00              |                    |
|                         |                 | HIGH      | Q16        | 21.26      | 21.44  | 21.36  | 22.00              |                    |
| 6                       |                 | LOW       | Q16        | 21.36      | 21.19  | 21.39  | 22.00              |                    |
| 1.4                     |                 | 1         | LOW        | 64QAM      | 21.38  | 21.75  | 21.14              | 22.00              |
|                         |                 |           | MID        | 64QAM      | 21.27  | 21.65  | 21.28              | 22.00              |
|                         | HIGH            |           | 64QAM      | 21.32      | 21.66  | 21.31  | 22.00              |                    |
|                         | 3               | LOW       | 64QAM      | 21.32      | 21.48  | 21.23  | 22.00              |                    |
|                         |                 | MID       | 64QAM      | 21.17      | 21.59  | 21.31  | 22.00              |                    |
|                         |                 | HIGH      | 64QAM      | 21.20      | 21.51  | 21.38  | 22.00              |                    |
|                         | 6               | LOW       | 64QAM      | 20.30      | 20.31  | 20.34  | 21.00              |                    |
|                         | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                         | 3               | 1         | LOW        | QPSK       | 20.97  | 21.25  | 21.10              | 22.00              |
| MID                     |                 |           | QPSK       | 21.19      | 21.32  | 21.30  | 22.00              |                    |
| HIGH                    |                 |           | QPSK       | 21.07      | 21.41  | 20.97  | 22.00              |                    |
| 8                       |                 | LOW       | QPSK       | 21.10      | 21.29  | 21.36  | 22.00              |                    |
|                         |                 | MID       | QPSK       | 21.27      | 21.15  | 21.39  | 22.00              |                    |
|                         |                 | HIGH      | QPSK       | 21.41      | 21.33  | 21.31  | 22.00              |                    |
| 15                      |                 | LOW       | QPSK       | 21.31      | 21.24  | 21.24  | 22.00              |                    |
| 3                       |                 | 1         | LOW        | Q16        | 21.40  | 21.44  | 21.52              | 22.00              |
|                         |                 |           | MID        | Q16        | 21.69  | 21.79  | 21.70              | 22.00              |
|                         | HIGH            |           | Q16        | 21.54      | 21.57  | 21.43  | 22.00              |                    |
|                         | 8               | LOW       | Q16        | 21.35      | 21.37  | 21.44  | 22.00              |                    |
|                         |                 | MID       | Q16        | 21.19      | 21.15  | 21.19  | 22.00              |                    |
|                         |                 | HIGH      | Q16        | 21.34      | 21.21  | 21.13  | 22.00              |                    |
|                         | 15              | LOW       | Q16        | 21.17      | 21.40  | 21.25  | 22.00              |                    |
|                         | 3               | 1         | LOW        | 64QAM      | 21.62  | 21.61  | 21.41              | 22.00              |
|                         |                 |           | MID        | 64QAM      | 21.59  | 21.78  | 21.69              | 22.00              |
| HIGH                    |                 |           | 64QAM      | 21.51      | 21.80  | 21.53  | 22.00              |                    |
| 8                       |                 | LOW       | 64QAM      | 20.10      | 20.39  | 20.39  | 21.00              |                    |
|                         |                 | MID       | 64QAM      | 20.50      | 20.41  | 20.22  | 21.00              |                    |
|                         |                 | HIGH      | 64QAM      | 20.51      | 20.31  | 20.24  | 21.00              |                    |
| 15                      |                 | LOW       | 64QAM      | 20.42      | 20.34  | 20.33  | 21.00              |                    |
| Bandwidth (MHz)         |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                       |                 | 1         | LOW        | QPSK       | 21.10  | 21.12  | 21.00              | 22.00              |
|                         | MID             |           | QPSK       | 21.32      | 21.32  | 21.30  | 22.00              |                    |
|                         | HIGH            |           | QPSK       | 21.06      | 21.12  | 21.07  | 22.00              |                    |
|                         | 36              | LOW       | QPSK       | 21.09      | 21.22  | 21.34  | 22.00              |                    |
|                         |                 | MID       | QPSK       | 21.37      | 21.23  | 21.38  | 22.00              |                    |
|                         |                 | HIGH      | QPSK       | 21.30      | 21.36  | 21.17  | 22.00              |                    |
|                         | 75              | LOW       | QPSK       | 21.27      | 21.33  | 21.18  | 22.00              |                    |
|                         | 5               | 1         | LOW        | Q16        | 21.48  | 21.59  | 21.50              | 22.00              |
|                         |                 |           | MID        | Q16        | 21.63  | 21.68  | 21.54              | 22.00              |
| HIGH                    |                 |           | Q16        | 21.54      | 21.54  | 21.34  | 22.00              |                    |
| 36                      |                 | LOW       | Q16        | 21.29      | 21.36  | 21.26  | 22.00              |                    |
|                         |                 | MID       | Q16        | 21.27      | 21.18  | 21.32  | 22.00              |                    |
|                         |                 | HIGH      | Q16        | 21.35      | 21.34  | 21.22  | 22.00              |                    |
| 75                      |                 | LOW       | Q16        | 21.31      | 21.18  | 21.38  | 22.00              |                    |
| 5                       |                 | 1         | LOW        | 64QAM      | 21.51  | 21.55  | 21.50              | 22.00              |
|                         |                 |           | MID        | 64QAM      | 21.49  | 21.87  | 21.66              | 22.00              |
|                         | HIGH            |           | 64QAM      | 21.68      | 21.59  | 21.48  | 22.00              |                    |
|                         | 36              | LOW       | 64QAM      | 20.30      | 20.43  | 20.28  | 21.00              |                    |
|                         |                 | MID       | 64QAM      | 20.45      | 20.43  | 20.29  | 21.00              |                    |
|                         |                 | HIGH      | 64QAM      | 20.50      | 20.23  | 20.41  | 21.00              |                    |
|                         | 75              | LOW       | 64QAM      | 20.22      | 20.50  | 20.51  | 21.00              |                    |

| LTE B66-State1&3 -Ant.3 |                 |           |            |            |        |        |                    |                    |
|-------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)         | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                      | 1               | LOW       | QPSK       | 20.89      | 21.14  | 21.02  | 22.00              |                    |
|                         |                 | MID       | QPSK       | 21.39      | 21.37  | 21.10  | 22.00              |                    |
|                         |                 | HIGH      | QPSK       | 21.26      | 21.28  | 21.25  | 22.00              |                    |
|                         | 50              | LOW       | QPSK       | 21.18      | 21.20  | 21.43  | 22.00              |                    |
|                         |                 | MID       | QPSK       | 21.20      | 21.14  | 21.13  | 22.00              |                    |
|                         |                 | HIGH      | QPSK       | 21.33      | 21.28  | 21.01  | 22.00              |                    |
|                         | 100             | LOW       | QPSK       | 21.18      | 21.13  | 21.28  | 22.00              |                    |
|                         | 10              | 1         | LOW        | Q16        | 21.32  | 21.46  | 21.39              | 22.00              |
|                         |                 |           | MID        | Q16        | 21.81  | 21.67  | 21.56              | 22.00              |
| HIGH                    |                 |           | Q16        | 21.71      | 21.70  | 21.51  | 22.00              |                    |
| 50                      |                 | LOW       | Q16        | 21.14      | 21.27  | 21.18  | 22.00              |                    |
|                         |                 | MID       | Q16        | 21.32      | 21.20  | 21.17  | 22.00              |                    |
|                         |                 | HIGH      | Q16        | 21.21      | 21.39  | 21.18  | 22.00              |                    |
| 100                     |                 | LOW       | Q16        | 21.18      | 21.32  | 21.39  | 22.00              |                    |
| 10                      |                 | 1         | LOW        | 64QAM      | 21.34  | 21.78  | 21.22              | 22.00              |
|                         |                 |           | MID        | 64QAM      | 21.64  | 21.90  | 21.43              | 22.00              |
|                         | HIGH            |           | 64QAM      | 21.51      | 21.70  | 21.49  | 22.00              |                    |
|                         | 50              | LOW       | 64QAM      | 20.31      | 20.36  | 20.24  | 21.00              |                    |
|                         |                 | MID       | 64QAM      | 20.48      | 20.37  | 20.40  | 21.00              |                    |
|                         |                 | HIGH      | 64QAM      | 20.43      | 20.04  | 20.28  | 21.00              |                    |
|                         | 100             | LOW       | 64QAM      | 20.29      | 20.31  | 20.50  | 21.00              |                    |
|                         | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                         | 15              | 1         | LOW        | QPSK       | 20.93  | 21.14  | 20.90              | 22.00              |
| MID                     |                 |           | QPSK       | 21.18      | 21.31  | 21.19  | 22.00              |                    |
| HIGH                    |                 |           | QPSK       | 21.30      | 21.28  | 21.16  | 22.00              |                    |
| 36                      |                 | LOW       | QPSK       | 21.19      | 21.35  | 21.43  | 22.00              |                    |
|                         |                 | MID       | QPSK       | 21.20      | 21.12  | 21.21  | 22.00              |                    |
|                         |                 | HIGH      | QPSK       | 21.38      | 21.39  | 21.28  | 22.00              |                    |
| 75                      |                 | LOW       | QPSK       | 21.24      | 21.33  | 21.17  | 22.00              |                    |
| 15                      |                 | 1         | LOW        | Q16        | 21.40  | 21.47  | 21.35              | 22.00              |
|                         |                 |           | MID        | Q16        | 21.59  | 21.73  | 21.56              | 22.00              |
|                         | HIGH            |           | Q16        | 21.65      | 21.73  | 21.49  | 22.00              |                    |
|                         | 36              | LOW       | Q16        | 21.30      | 21.27  | 21.35  | 22.00              |                    |
|                         |                 | MID       | Q16        | 21.25      | 21.27  | 21.35  | 22.00              |                    |
|                         |                 | HIGH      | Q16        | 21.22      | 21.34  | 21.13  | 22.00              |                    |
|                         | 75              | LOW       | Q16        | 21.40      | 21.10  | 21.20  | 22.00              |                    |
|                         | 15              | 1         | LOW        | 64QAM      | 21.41  | 21.67  | 21.24              | 22.00              |
|                         |                 |           | MID        | 64QAM      | 21.52  | 21.92  | 21.56              | 22.00              |
| HIGH                    |                 |           | 64QAM      | 21.47      | 21.71  | 21.49  | 22.00              |                    |
| 36                      |                 | LOW       | 64QAM      | 20.16      | 20.22  | 20.33  | 21.00              |                    |
|                         |                 | MID       | 64QAM      | 20.32      | 20.34  | 20.28  | 21.00              |                    |
|                         |                 | HIGH      | 64QAM      | 20.40      | 20.27  | 20.21  | 21.00              |                    |
| 75                      |                 | LOW       | 64QAM      | 20.31      | 20.47  | 20.25  | 21.00              |                    |
| Bandwidth (MHz)         |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                      |                 | 1         | LOW        | QPSK       | 21.03  | 21.14  | 21.05              | 22.00              |
|                         | MID             |           | QPSK       | 21.24      | 21.34  | 21.18  | 22.00              |                    |
|                         | HIGH            |           | QPSK       | 21.20      | 21.26  | 21.11  | 22.00              |                    |
|                         | 50              | LOW       | QPSK       | 21.16      | 21.33  | 21.28  | 22.00              |                    |
|                         |                 | MID       | QPSK       | 21.27      | 21.22  | 21.26  | 22.00              |                    |
|                         |                 | HIGH      | QPSK       | 21.30      | 21.32  | 21.16  | 22.00              |                    |
|                         | 100             | LOW       | QPSK       | 21.24      | 21.24  | 21.25  | 22.00              |                    |
|                         | 20              | 1         | LOW        | Q16        | 21.46  | 21.56  | 21.48              | 22.00              |
|                         |                 |           | MID        | Q16        | 21.72  | 21.80  | 21.65              | 22.00              |
| HIGH                    |                 |           | Q16        | 21.65      | 21.70  | 21.49  | 22.00              |                    |
| 50                      |                 | LOW       | Q16        | 21.20      | 21.30  | 21.31  | 22.00              |                    |
|                         |                 | MID       | Q16        | 21.26      | 21.23  | 21.21  | 22.00              |                    |
|                         |                 | HIGH      | Q16        | 21.32      | 21.30  | 21.16  | 22.00              |                    |
| 100                     |                 | LOW       | Q16        | 21.27      | 21.25  | 21.24  | 22.00              |                    |
| 20                      |                 | 1         | LOW        | 64QAM      | 21.47  | 21.68  | 21.36              | 22.00              |
|                         |                 |           | MID        | 64QAM      | 21.60  | 21.93  | 21.55              | 22.00              |
|                         | HIGH            |           | 64QAM      | 21.55      | 21.72  | 21.52  | 22.00              |                    |
|                         | 50              | LOW       | 64QAM      | 20.23      | 20.33  | 20.31  | 21.00              |                    |
|                         |                 | MID       | 64QAM      | 20.35      | 20.36  | 20.36  | 21.00              |                    |
|                         |                 | HIGH      | 64QAM      | 20.36      | 20.16  | 20.31  | 21.00              |                    |
|                         | 100             | LOW       | 64QAM      | 20.28      | 20.36  | 20.38  | 21.00              |                    |

| LTE B66-State2&4&6 -Ant.3 |                 |           |            |            |        |        |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                       | 1               | LOW       | QPSK       | 23.31      | 23.39  | 23.28  | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.29      | 23.42  | 23.31  | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.33      | 23.38  | 23.31  | 24.00              |                    |
|                           | 3               | LOW       | QPSK       | 23.36      | 23.44  | 23.36  | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.38      | 23.43  | 23.38  | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.35      | 23.39  | 23.36  | 24.00              |                    |
|                           | 6               | LOW       | QPSK       | 22.33      | 22.42  | 22.33  | 23.00              |                    |
|                           | 1.4             | 1         | LOW        | Q16        | 22.47  | 22.80  | 22.40              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.49  | 22.81  | 22.40              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.49      | 22.83  | 22.42  | 23.00              |                    |
| 3                         |                 | LOW       | Q16        | 22.39      | 22.62  | 22.51  | 23.00              |                    |
|                           |                 | MID       | Q16        | 22.41      | 22.61  | 22.49  | 23.00              |                    |
|                           |                 | HIGH      | Q16        | 22.40      | 22.60  | 22.51  | 23.00              |                    |
| 6                         |                 | LOW       | Q16        | 21.48      | 21.30  | 21.52  | 22.00              |                    |
| 1.4                       |                 | 1         | LOW        | 64QAM      | 21.46  | 21.86  | 21.53              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.41  | 21.73  | 21.53              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.41      | 21.72  | 21.49  | 22.00              |                    |
|                           | 3               | LOW       | 64QAM      | 21.44      | 21.55  | 21.39  | 22.00              |                    |
|                           |                 | MID       | 64QAM      | 21.34      | 21.75  | 21.41  | 22.00              |                    |
|                           |                 | HIGH      | 64QAM      | 21.52      | 21.72  | 21.46  | 22.00              |                    |
|                           | 6               | LOW       | 64QAM      | 20.51      | 20.33  | 20.38  | 21.00              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                           | 3               | 1         | LOW        | QPSK       | 23.07  | 23.10  | 23.16              | 24.00              |
| MID                       |                 |           | QPSK       | 23.52      | 23.41  | 23.36  | 24.00              |                    |
| HIGH                      |                 |           | QPSK       | 23.24      | 23.26  | 23.06  | 24.00              |                    |
| 8                         |                 | LOW       | QPSK       | 22.33      | 22.44  | 22.62  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.50      | 22.39  | 22.55  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.35      | 22.36  | 22.26  | 23.00              |                    |
| 15                        |                 | LOW       | QPSK       | 22.30      | 22.28  | 22.51  | 23.00              |                    |
| 3                         |                 | 1         | LOW        | Q16        | 22.79  | 22.80  | 22.76              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.91  | 22.89  | 22.87              | 23.00              |
|                           | HIGH            |           | Q16        | 22.76      | 22.88  | 22.72  | 23.00              |                    |
|                           | 8               | LOW       | Q16        | 21.24      | 21.35  | 21.39  | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.38      | 21.46  | 21.29  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.40      | 21.45  | 21.21  | 22.00              |                    |
|                           | 15              | LOW       | Q16        | 21.29      | 21.34  | 21.42  | 22.00              |                    |
|                           | 3               | 1         | LOW        | 64QAM      | 21.72  | 21.74  | 21.73              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.64  | 21.78  | 21.70              | 22.00              |
| HIGH                      |                 |           | 64QAM      | 21.99      | 21.84  | 21.60  | 22.00              |                    |
| 8                         |                 | LOW       | 64QAM      | 20.34      | 20.39  | 20.40  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.14      | 20.18  | 20.39  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.45      | 20.27  | 20.45  | 21.00              |                    |
| 15                        |                 | LOW       | 64QAM      | 20.31      | 20.49  | 20.58  | 21.00              |                    |
| Bandwidth (MHz)           |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                         |                 | 1         | LOW        | QPSK       | 23.33  | 23.35  | 23.07              | 24.00              |
|                           | MID             |           | QPSK       | 23.36      | 23.39  | 23.35  | 24.00              |                    |
|                           | HIGH            |           | QPSK       | 23.32      | 23.43  | 23.11  | 24.00              |                    |
|                           | 36              | LOW       | QPSK       | 22.43      | 22.33  | 22.34  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.41      | 22.51  | 22.38  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.42      | 22.35  | 22.36  | 23.00              |                    |
|                           | 75              | LOW       | QPSK       | 22.41      | 22.37  | 22.26  | 23.00              |                    |
|                           | 5               | 1         | LOW        | Q16        | 22.67  | 22.68  | 22.76              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.90  | 22.93  | 22.93              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.95      | 22.91  | 22.62  | 23.00              |                    |
| 36                        |                 | LOW       | Q16        | 21.36      | 21.54  | 21.33  | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.47      | 21.43  | 21.47  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.37      | 21.42  | 21.29  | 22.00              |                    |
| 75                        |                 | LOW       | Q16        | 21.44      | 21.46  | 21.50  | 22.00              |                    |
| 5                         |                 | 1         | LOW        | 64QAM      | 21.64  | 21.82  | 21.61              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.88  | 21.80  | 21.86              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.93      | 21.86  | 21.57  | 22.00              |                    |
|                           | 36              | LOW       | 64QAM      | 20.17      | 20.42  | 20.40  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.19      | 20.11  | 20.43  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.57      | 20.30  | 20.35  | 21.00              |                    |
|                           | 75              | LOW       | 64QAM      | 20.42      | 20.33  | 20.37  | 21.00              |                    |

| LTE B66-State2&4&6 -Ant.3 |                 |           |            |            |        |        |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                        | 1               | LOW       | QPSK       | 23.14      | 23.39  | 23.23  | 24.00              |                    |
|                           |                 | MID       | QPSK       | 23.47      | 23.63  | 23.20  | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 23.50      | 23.27  | 23.32  | 24.00              |                    |
|                           | 50              | LOW       | QPSK       | 22.45      | 22.41  | 22.34  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.39      | 22.48  | 22.51  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.52      | 22.50  | 22.25  | 23.00              |                    |
|                           | 100             | LOW       | QPSK       | 22.36      | 22.33  | 22.36  | 23.00              |                    |
|                           | 10              | 1         | LOW        | Q16        | 22.82  | 22.72  | 22.58              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.82  | 22.83  | 22.85              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.73      | 22.67  | 22.78  | 23.00              |                    |
| 50                        |                 | LOW       | Q16        | 21.45      | 21.46  | 21.43  | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.47      | 21.28  | 21.38  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.33      | 21.29  | 21.21  | 22.00              |                    |
| 100                       |                 | LOW       | Q16        | 21.39      | 21.38  | 21.37  | 22.00              |                    |
| 10                        |                 | 1         | LOW        | 64QAM      | 21.80  | 21.56  | 21.47              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.60  | 21.85  | 21.83              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.86      | 21.72  | 21.67  | 22.00              |                    |
|                           | 50              | LOW       | 64QAM      | 20.43      | 20.37  | 20.41  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.35      | 20.22  | 20.53  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.40      | 20.51  | 20.39  | 21.00              |                    |
|                           | 100             | LOW       | 64QAM      | 20.37      | 20.29  | 20.46  | 21.00              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                           | 15              | 1         | LOW        | QPSK       | 23.36  | 23.38  | 23.27              | 24.00              |
| MID                       |                 |           | QPSK       | 23.47      | 23.38  | 23.35  | 24.00              |                    |
| HIGH                      |                 |           | QPSK       | 23.39      | 23.35  | 23.20  | 24.00              |                    |
| 36                        |                 | LOW       | QPSK       | 22.35      | 22.44  | 22.55  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.45      | 22.52  | 22.53  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.29      | 22.40  | 22.46  | 23.00              |                    |
| 75                        |                 | LOW       | QPSK       | 22.25      | 22.46  | 22.33  | 23.00              |                    |
| 15                        |                 | 1         | LOW        | Q16        | 22.69  | 22.59  | 22.73              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.68  | 22.95  | 22.69              | 23.00              |
|                           | HIGH            |           | Q16        | 22.90      | 22.80  | 22.82  | 23.00              |                    |
|                           | 36              | LOW       | Q16        | 21.49      | 21.46  | 21.52  | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.55      | 21.34  | 21.46  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.32      | 21.27  | 21.29  | 22.00              |                    |
|                           | 75              | LOW       | Q16        | 21.39      | 21.54  | 21.35  | 22.00              |                    |
|                           | 15              | 1         | LOW        | 64QAM      | 21.68  | 21.65  | 21.75              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.78  | 21.84  | 21.69              | 22.00              |
| HIGH                      |                 |           | 64QAM      | 21.93      | 21.87  | 21.46  | 22.00              |                    |
| 36                        |                 | LOW       | 64QAM      | 20.26      | 20.39  | 20.37  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.18      | 20.36  | 20.60  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.57      | 20.26  | 20.49  | 21.00              |                    |
| 75                        |                 | LOW       | 64QAM      | 20.30      | 20.46  | 20.39  | 21.00              |                    |
| Bandwidth (MHz)           |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                        |                 | 1         | LOW        | QPSK       | 23.22  | 23.25  | 23.18              | 24.00              |
|                           | MID             |           | QPSK       | 23.49      | 23.44  | 23.34  | 24.00              |                    |
|                           | HIGH            |           | QPSK       | 23.35      | 23.35  | 23.21  | 24.00              |                    |
|                           | 50              | LOW       | QPSK       | 22.36      | 22.40  | 22.40  | 23.00              |                    |
|                           |                 | MID       | QPSK       | 22.47      | 22.43  | 22.42  | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.41      | 22.40  | 22.34  | 23.00              |                    |
|                           | 100             | LOW       | QPSK       | 22.34      | 22.43  | 22.40  | 23.00              |                    |
|                           | 20              | 1         | LOW        | Q16        | 22.75  | 22.69  | 22.63              | 23.00              |
|                           |                 |           | MID        | Q16        | 22.83  | 22.92  | 22.80              | 23.00              |
| HIGH                      |                 |           | Q16        | 22.86      | 22.77  | 22.67  | 23.00              |                    |
| 50                        |                 | LOW       | Q16        | 21.37      | 21.44  | 21.43  | 22.00              |                    |
|                           |                 | MID       | Q16        | 21.40      | 21.38  | 21.33  | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 21.44      | 21.42  | 21.25  | 22.00              |                    |
| 100                       |                 | LOW       | Q16        | 21.42      | 21.40  | 21.39  | 22.00              |                    |
| 20                        |                 | 1         | LOW        | 64QAM      | 21.70  | 21.68  | 21.61              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 21.73  | 21.93  | 21.74              | 22.00              |
|                           | HIGH            |           | 64QAM      | 21.89      | 21.82  | 21.60  | 22.00              |                    |
|                           | 50              | LOW       | 64QAM      | 20.32      | 20.29  | 20.28  | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 20.28      | 20.26  | 20.45  | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.53      | 20.38  | 20.38  | 21.00              |                    |
|                           | 100             | LOW       | 64QAM      | 20.43      | 20.38  | 20.47  | 21.00              |                    |

| LTE B66-State5 -Ant.3 |                 |           |            |            |        |        |                    |                    |
|-----------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)       | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                   | 1               | LOW       | QPSK       | 19.63      | 19.69  | 19.62  | 20.50              |                    |
|                       |                 | MID       | QPSK       | 19.63      | 19.72  | 19.60  | 20.50              |                    |
|                       |                 | HIGH      | QPSK       | 19.63      | 19.69  | 19.60  | 20.50              |                    |
|                       | 3               | LOW       | QPSK       | 19.67      | 19.70  | 19.68  | 20.50              |                    |
|                       |                 | MID       | QPSK       | 19.68      | 19.72  | 19.70  | 20.50              |                    |
|                       |                 | HIGH      | QPSK       | 19.66      | 19.70  | 19.67  | 20.50              |                    |
|                       | 6               | LOW       | QPSK       | 19.66      | 19.74  | 19.64  | 20.50              |                    |
|                       | 1.4             | 1         | LOW        | Q16        | 19.78  | 20.12  | 19.69              | 20.50              |
|                       |                 |           | MID        | Q16        | 19.82  | 20.11  | 19.73              | 20.50              |
| HIGH                  |                 |           | Q16        | 19.79      | 20.13  | 19.73  | 20.50              |                    |
| 3                     |                 | LOW       | Q16        | 19.72      | 19.93  | 19.86  | 20.50              |                    |
|                       |                 | MID       | Q16        | 19.72      | 19.91  | 19.86  | 20.50              |                    |
|                       |                 | HIGH      | Q16        | 19.73      | 19.90  | 19.82  | 20.50              |                    |
| 6                     |                 | LOW       | Q16        | 19.80      | 19.66  | 19.81  | 20.50              |                    |
| 1.4                   |                 | 1         | LOW        | 64QAM      | 19.89  | 20.05  | 19.81              | 20.50              |
|                       |                 |           | MID        | 64QAM      | 19.69  | 20.24  | 19.67              | 20.50              |
|                       | HIGH            |           | 64QAM      | 19.91      | 20.00  | 19.71  | 20.50              |                    |
|                       | 3               | LOW       | 64QAM      | 19.68      | 19.96  | 19.79  | 20.50              |                    |
|                       |                 | MID       | 64QAM      | 19.85      | 19.81  | 19.83  | 20.50              |                    |
|                       |                 | HIGH      | 64QAM      | 19.68      | 19.94  | 19.70  | 20.50              |                    |
|                       | 6               | LOW       | 64QAM      | 19.76      | 19.60  | 19.82  | 20.50              |                    |
|                       | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                       | 3               | 1         | LOW        | QPSK       | 19.55  | 19.61  | 19.66              | 20.50              |
| MID                   |                 |           | QPSK       | 19.74      | 19.68  | 19.66  | 20.50              |                    |
| HIGH                  |                 |           | QPSK       | 19.61      | 19.68  | 19.52  | 20.50              |                    |
| 8                     |                 | LOW       | QPSK       | 19.57      | 19.62  | 19.91  | 20.50              |                    |
|                       |                 | MID       | QPSK       | 19.80      | 19.90  | 19.66  | 20.50              |                    |
|                       |                 | HIGH      | QPSK       | 19.87      | 19.83  | 19.66  | 20.50              |                    |
| 15                    |                 | LOW       | QPSK       | 19.71      | 19.84  | 19.70  | 20.50              |                    |
| 3                     |                 | 1         | LOW        | Q16        | 20.05  | 20.04  | 19.81              | 20.50              |
|                       |                 |           | MID        | Q16        | 20.23  | 20.18  | 20.14              | 20.50              |
|                       | HIGH            |           | Q16        | 20.05      | 20.13  | 19.99  | 20.50              |                    |
|                       | 8               | LOW       | Q16        | 19.58      | 19.77  | 19.82  | 20.50              |                    |
|                       |                 | MID       | Q16        | 19.79      | 19.76  | 19.61  | 20.50              |                    |
|                       |                 | HIGH      | Q16        | 19.71      | 19.79  | 19.62  | 20.50              |                    |
|                       | 15              | LOW       | Q16        | 19.59      | 19.70  | 19.62  | 20.50              |                    |
|                       | 3               | 1         | LOW        | 64QAM      | 20.14  | 20.09  | 19.77              | 20.50              |
|                       |                 |           | MID        | 64QAM      | 20.08  | 20.42  | 20.02              | 20.50              |
| HIGH                  |                 |           | 64QAM      | 20.24      | 20.19  | 19.85  | 20.50              |                    |
| 8                     |                 | LOW       | 64QAM      | 19.77      | 20.06  | 19.91  | 20.50              |                    |
|                       |                 | MID       | 64QAM      | 19.89      | 19.80  | 19.49  | 20.50              |                    |
|                       |                 | HIGH      | 64QAM      | 19.72      | 19.83  | 19.49  | 20.50              |                    |
| 15                    |                 | LOW       | 64QAM      | 19.85      | 19.73  | 19.54  | 20.50              |                    |
| Bandwidth (MHz)       |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                     |                 | 1         | LOW        | QPSK       | 19.62  | 19.61  | 19.63              | 20.50              |
|                       | MID             |           | QPSK       | 19.64      | 19.69  | 19.69  | 20.50              |                    |
|                       | HIGH            |           | QPSK       | 19.58      | 19.84  | 19.70  | 20.50              |                    |
|                       | 36              | LOW       | QPSK       | 19.75      | 19.86  | 19.91  | 20.50              |                    |
|                       |                 | MID       | QPSK       | 19.74      | 19.88  | 19.82  | 20.50              |                    |
|                       |                 | HIGH      | QPSK       | 19.72      | 19.66  | 19.71  | 20.50              |                    |
|                       | 75              | LOW       | QPSK       | 19.75      | 19.80  | 19.78  | 20.50              |                    |
|                       | 5               | 1         | LOW        | Q16        | 20.10  | 19.99  | 20.04              | 20.50              |
|                       |                 |           | MID        | Q16        | 20.11  | 20.12  | 20.16              | 20.50              |
| HIGH                  |                 |           | Q16        | 20.07      | 20.14  | 20.06  | 20.50              |                    |
| 36                    |                 | LOW       | Q16        | 19.65      | 19.78  | 19.88  | 20.50              |                    |
|                       |                 | MID       | Q16        | 19.74      | 19.83  | 19.62  | 20.50              |                    |
|                       |                 | HIGH      | Q16        | 19.92      | 19.94  | 19.62  | 20.50              |                    |
| 75                    |                 | LOW       | Q16        | 19.74      | 19.81  | 19.59  | 20.50              |                    |
| 5                     |                 | 1         | LOW        | 64QAM      | 20.29  | 19.98  | 19.90              | 20.50              |
|                       |                 |           | MID        | 64QAM      | 20.14  | 20.50  | 19.94              | 20.50              |
|                       | HIGH            |           | 64QAM      | 20.06      | 20.32  | 20.03  | 20.50              |                    |
|                       | 36              | LOW       | 64QAM      | 19.77      | 19.82  | 19.85  | 20.50              |                    |
|                       |                 | MID       | 64QAM      | 19.76      | 19.91  | 19.52  | 20.50              |                    |
|                       |                 | HIGH      | 64QAM      | 19.87      | 19.89  | 19.61  | 20.50              |                    |
|                       | 75              | LOW       | 64QAM      | 19.89      | 19.86  | 19.53  | 20.50              |                    |

| LTE B66-State5 -Ant.3 |                 |           |            |            |        |        |                    |                    |
|-----------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)       | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                    | 1               | LOW       | QPSK       | 19.64      | 19.45  | 19.47  | 20.50              |                    |
|                       |                 | MID       | QPSK       | 19.76      | 19.91  | 19.69  | 20.50              |                    |
|                       |                 | HIGH      | QPSK       | 19.52      | 19.87  | 19.55  | 20.50              |                    |
|                       | 50              | LOW       | QPSK       | 19.58      | 19.63  | 19.88  | 20.50              |                    |
|                       |                 | MID       | QPSK       | 19.78      | 19.86  | 19.62  | 20.50              |                    |
|                       |                 | HIGH      | QPSK       | 19.76      | 19.79  | 19.56  | 20.50              |                    |
|                       | 100             | LOW       | QPSK       | 19.66      | 19.88  | 19.85  | 20.50              |                    |
|                       | 10              | 1         | LOW        | Q16        | 19.90  | 19.94  | 19.86              | 20.50              |
|                       |                 |           | MID        | Q16        | 20.20  | 20.23  | 20.12              | 20.50              |
| HIGH                  |                 |           | Q16        | 19.93      | 20.20  | 20.03  | 20.50              |                    |
| 50                    |                 | LOW       | Q16        | 19.68      | 19.92  | 19.79  | 20.50              |                    |
|                       |                 | MID       | Q16        | 19.73      | 19.64  | 19.75  | 20.50              |                    |
|                       |                 | HIGH      | Q16        | 19.65      | 19.74  | 19.71  | 20.50              |                    |
| 100                   |                 | LOW       | Q16        | 19.64      | 19.89  | 19.57  | 20.50              |                    |
| 10                    |                 | 1         | LOW        | 64QAM      | 20.19  | 20.11  | 19.74              | 20.50              |
|                       |                 |           | MID        | 64QAM      | 20.09  | 20.43  | 19.88              | 20.50              |
|                       | HIGH            |           | 64QAM      | 20.20      | 20.18  | 19.94  | 20.50              |                    |
|                       | 50              | LOW       | 64QAM      | 19.84      | 20.03  | 19.75  | 20.50              |                    |
|                       |                 | MID       | 64QAM      | 19.83      | 19.85  | 19.61  | 20.50              |                    |
|                       |                 | HIGH      | 64QAM      | 19.86      | 19.82  | 19.38  | 20.50              |                    |
|                       | 100             | LOW       | 64QAM      | 19.71      | 19.77  | 19.63  | 20.50              |                    |
|                       | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                       | 15              | 1         | LOW        | QPSK       | 19.62  | 19.65  | 19.50              | 20.50              |
| MID                   |                 |           | QPSK       | 19.68      | 19.94  | 19.64  | 20.50              |                    |
| HIGH                  |                 |           | QPSK       | 19.70      | 19.74  | 19.67  | 20.50              |                    |
| 36                    |                 | LOW       | QPSK       | 19.67      | 19.72  | 19.77  | 20.50              |                    |
|                       |                 | MID       | QPSK       | 19.90      | 19.89  | 19.75  | 20.50              |                    |
|                       |                 | HIGH      | QPSK       | 19.72      | 19.91  | 19.68  | 20.50              |                    |
| 75                    |                 | LOW       | QPSK       | 19.73      | 19.72  | 19.76  | 20.50              |                    |
| 15                    |                 | 1         | LOW        | Q16        | 20.06  | 20.11  | 19.99              | 20.50              |
|                       |                 |           | MID        | Q16        | 20.09  | 20.28  | 20.01              | 20.50              |
|                       | HIGH            |           | Q16        | 20.04      | 20.11  | 20.14  | 20.50              |                    |
|                       | 36              | LOW       | Q16        | 19.74      | 19.78  | 19.69  | 20.50              |                    |
|                       |                 | MID       | Q16        | 19.70      | 19.72  | 19.54  | 20.50              |                    |
|                       |                 | HIGH      | Q16        | 19.72      | 19.73  | 19.59  | 20.50              |                    |
|                       | 75              | LOW       | Q16        | 19.76      | 19.73  | 19.63  | 20.50              |                    |
|                       | 15              | 1         | LOW        | 64QAM      | 20.27  | 19.89  | 19.92              | 20.50              |
|                       |                 |           | MID        | 64QAM      | 20.05  | 20.34  | 20.13              | 20.50              |
| HIGH                  |                 |           | 64QAM      | 20.06      | 20.30  | 19.77  | 20.50              |                    |
| 36                    |                 | LOW       | 64QAM      | 19.73      | 20.06  | 19.75  | 20.50              |                    |
|                       |                 | MID       | 64QAM      | 19.83      | 19.80  | 19.48  | 20.50              |                    |
|                       |                 | HIGH      | 64QAM      | 19.67      | 19.63  | 19.36  | 20.50              |                    |
| 75                    |                 | LOW       | 64QAM      | 19.88      | 19.86  | 19.74  | 20.50              |                    |
| Bandwidth (MHz)       |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                    |                 | 1         | LOW        | QPSK       | 19.55  | 19.59  | 19.55              | 20.50              |
|                       | MID             |           | QPSK       | 19.72      | 19.83  | 19.65  | 20.50              |                    |
|                       | HIGH            |           | QPSK       | 19.66      | 19.75  | 19.56  | 20.50              |                    |
|                       | 50              | LOW       | QPSK       | 19.65      | 19.80  | 19.73  | 20.50              |                    |
|                       |                 | MID       | QPSK       | 19.75      | 19.76  | 19.74  | 20.50              |                    |
|                       |                 | HIGH      | QPSK       | 19.79      | 19.77  | 19.67  | 20.50              |                    |
|                       | 100             | LOW       | QPSK       | 19.69      | 19.75  | 19.70  | 20.50              |                    |
|                       | 20              | 1         | LOW        | Q16        | 20.05  | 20.07  | 19.96              | 20.50              |
|                       |                 |           | MID        | Q16        | 20.20  | 20.33  | 20.08              | 20.50              |
| HIGH                  |                 |           | Q16        | 20.15      | 20.23  | 19.99  | 20.50              |                    |
| 50                    |                 | LOW       | Q16        | 19.67      | 19.81  | 19.77  | 20.50              |                    |
|                       |                 | MID       | Q16        | 19.73      | 19.74  | 19.69  | 20.50              |                    |
|                       |                 | HIGH      | Q16        | 19.80      | 19.80  | 19.60  | 20.50              |                    |
| 100                   |                 | LOW       | Q16        | 19.73      | 19.75  | 19.71  | 20.50              |                    |
| 20                    |                 | 1         | LOW        | 64QAM      | 20.20  | 20.02  | 19.89              | 20.50              |
|                       |                 |           | MID        | 64QAM      | 20.15  | 20.46  | 19.99              | 20.50              |
|                       | HIGH            |           | 64QAM      | 20.16      | 20.21  | 19.89  | 20.50              |                    |
|                       | 50              | LOW       | 64QAM      | 19.75      | 19.92  | 19.81  | 20.50              |                    |
|                       |                 | MID       | 64QAM      | 19.85      | 19.89  | 19.57  | 20.50              |                    |
|                       |                 | HIGH      | 64QAM      | 19.77      | 19.74  | 19.48  | 20.50              |                    |
|                       | 100             | LOW       | 64QAM      | 19.84      | 19.82  | 19.68  | 20.50              |                    |

### 8.3.1 LTE Band38 Output Power

| LTE B38-Full Power -Ant.4 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 37775      | 38000 | 38225 | Tune-up power(dBm) |                    |
| 5                         | 1         | LOW       | QPSK       | 22.28      | 22.31 | 22.25 | 24.00              |                    |
|                           |           | MID       | QPSK       | 22.27      | 22.31 | 22.23 | 24.00              |                    |
|                           |           | HIGH      | QPSK       | 22.30      | 22.27 | 22.23 | 24.00              |                    |
|                           | 12        | LOW       | QPSK       | 21.29      | 21.29 | 21.19 | 23.00              |                    |
|                           |           | MID       | QPSK       | 21.23      | 21.21 | 21.17 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 21.19      | 21.16 | 21.09 | 23.00              |                    |
|                           | 25        | LOW       | QPSK       | 21.25      | 21.22 | 21.18 | 23.00              |                    |
|                           | 5         | 1         | LOW        | Q16        | 21.61 | 21.66 | 21.42              | 23.00              |
|                           |           |           | MID        | Q16        | 21.59 | 21.67 | 21.38              | 23.00              |
| HIGH                      |           |           | Q16        | 21.58      | 21.65 | 21.39 | 23.00              |                    |
| 12                        |           | LOW       | Q16        | 20.27      | 20.40 | 20.22 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.21      | 20.32 | 20.19 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.17      | 20.25 | 20.11 | 22.00              |                    |
| 25                        |           | LOW       | Q16        | 20.27      | 20.18 | 20.19 | 22.00              |                    |
| 5                         |           | 1         | LOW        | 64QAM      | 20.65 | 20.57 | 20.49              | 22.00              |
|                           |           |           | MID        | 64QAM      | 20.47 | 20.55 | 20.51              | 22.00              |
|                           | HIGH      |           | 64QAM      | 20.46      | 20.70 | 20.54 | 22.00              |                    |
|                           | 12        | LOW       | 64QAM      | 19.29      | 19.53 | 19.26 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 19.13      | 19.43 | 19.25 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 19.25      | 19.26 | 19.00 | 21.00              |                    |
|                           | 25        | LOW       | 64QAM      | 19.17      | 19.32 | 19.11 | 21.00              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 37800 | 38000 | 38200              | Tune-up power(dBm) |
|                           | 10        | 1         | LOW        | QPSK       | 22.25 | 22.03 | 22.20              | 24.00              |
| MID                       |           |           | QPSK       | 22.14      | 22.18 | 22.39 | 24.00              |                    |
| HIGH                      |           |           | QPSK       | 22.12      | 22.04 | 22.10 | 24.00              |                    |
| 25                        |           | LOW       | QPSK       | 21.45      | 21.21 | 21.26 | 23.00              |                    |
|                           |           | MID       | QPSK       | 21.33      | 21.11 | 21.04 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 21.15      | 21.10 | 21.27 | 23.00              |                    |
| 50                        | LOW       | QPSK      | 21.12      | 21.34      | 21.11 | 23.00 |                    |                    |
| 10                        | 1         | LOW       | Q16        | 21.42      | 21.44 | 21.59 | 23.00              |                    |
|                           |           | MID       | Q16        | 21.58      | 21.48 | 21.80 | 23.00              |                    |
|                           |           | HIGH      | Q16        | 21.48      | 21.47 | 21.55 | 23.00              |                    |
|                           | 25        | LOW       | Q16        | 20.07      | 20.37 | 20.07 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.34      | 20.13 | 20.37 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.33      | 20.22 | 20.04 | 22.00              |                    |
|                           | 50        | LOW       | Q16        | 20.15      | 20.23 | 20.16 | 22.00              |                    |
|                           | 10        | 1         | LOW        | 64QAM      | 20.63 | 20.62 | 20.67              | 22.00              |
|                           |           |           | MID        | 64QAM      | 20.51 | 20.31 | 20.42              | 22.00              |
| HIGH                      |           |           | 64QAM      | 20.42      | 20.22 | 20.60 | 22.00              |                    |
| 25                        |           | LOW       | 64QAM      | 19.31      | 19.08 | 19.15 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 19.22      | 19.33 | 19.34 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 19.29      | 19.23 | 19.23 | 21.00              |                    |
| 50                        |           | LOW       | 64QAM      | 19.16      | 19.23 | 19.18 | 21.00              |                    |



| LTE B38-Full Power -Ant.4 |                 |           |            |            |       |       |                    |                    |
|---------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)           | RB Size         | RB offset | Modulation | 37825      | 38000 | 38175 | Tune-up power(dBm) |                    |
| 15                        | 1               | LOW       | QPSK       | 22.12      | 22.21 | 22.16 | 24.00              |                    |
|                           |                 | MID       | QPSK       | 22.34      | 22.36 | 22.50 | 24.00              |                    |
|                           |                 | HIGH      | QPSK       | 22.04      | 22.22 | 22.38 | 24.00              |                    |
|                           | 36              | LOW       | QPSK       | 21.25      | 21.28 | 21.24 | 23.00              |                    |
|                           |                 | MID       | QPSK       | 21.31      | 21.40 | 21.33 | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 21.39      | 21.09 | 21.13 | 23.00              |                    |
|                           | 75              | LOW       | QPSK       | 21.12      | 21.23 | 21.23 | 23.00              |                    |
|                           | 15              | 1         | LOW        | Q16        | 21.39 | 21.39 | 21.63              | 23.00              |
|                           |                 |           | MID        | Q16        | 21.50 | 21.49 | 21.57              | 23.00              |
| HIGH                      |                 |           | Q16        | 21.62      | 21.40 | 21.53 | 23.00              |                    |
| 36                        |                 | LOW       | Q16        | 20.25      | 20.31 | 20.27 | 22.00              |                    |
|                           |                 | MID       | Q16        | 20.17      | 20.27 | 20.33 | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 20.15      | 20.37 | 20.06 | 22.00              |                    |
| 75                        |                 | LOW       | Q16        | 20.08      | 20.19 | 20.14 | 22.00              |                    |
| 15                        |                 | 1         | LOW        | 64QAM      | 20.54 | 20.66 | 20.48              | 22.00              |
|                           |                 |           | MID        | 64QAM      | 20.69 | 20.53 | 20.55              | 22.00              |
|                           | HIGH            |           | 64QAM      | 20.60      | 20.35 | 20.81 | 22.00              |                    |
|                           | 36              | LOW       | 64QAM      | 19.17      | 19.26 | 19.16 | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 19.25      | 19.33 | 19.33 | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 19.31      | 19.30 | 19.17 | 21.00              |                    |
|                           | 75              | LOW       | 64QAM      | 19.20      | 19.41 | 19.30 | 21.00              |                    |
|                           | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 37850 | 38000 | 38150              | Tune-up power(dBm) |
|                           | 20              | 1         | LOW        | QPSK       | 22.15 | 22.16 | 22.23              | 24.00              |
| MID                       |                 |           | QPSK       | 22.28      | 22.31 | 22.38 | 24.00              |                    |
| HIGH                      |                 |           | QPSK       | 22.13      | 22.19 | 22.23 | 24.00              |                    |
| 50                        |                 | LOW       | QPSK       | 21.30      | 21.30 | 21.21 | 23.00              |                    |
|                           |                 | MID       | QPSK       | 21.29      | 21.25 | 21.18 | 23.00              |                    |
|                           |                 | HIGH      | QPSK       | 21.24      | 21.19 | 21.18 | 23.00              |                    |
| 100                       | LOW             | QPSK      | 21.26      | 21.27      | 21.20 | 23.00 |                    |                    |
| 20                        | 1               | LOW       | Q16        | 21.51      | 21.39 | 21.56 | 23.00              |                    |
|                           |                 | MID       | Q16        | 21.60      | 21.54 | 21.67 | 23.00              |                    |
|                           |                 | HIGH      | Q16        | 21.48      | 21.39 | 21.53 | 23.00              |                    |
|                           | 50              | LOW       | Q16        | 20.21      | 20.22 | 20.22 | 22.00              |                    |
|                           |                 | MID       | Q16        | 20.21      | 20.23 | 20.25 | 22.00              |                    |
|                           |                 | HIGH      | Q16        | 20.20      | 20.22 | 20.19 | 22.00              |                    |
| 100                       | LOW             | Q16       | 20.19      | 20.23      | 20.13 | 22.00 |                    |                    |
| 20                        | 1               | LOW       | 64QAM      | 20.50      | 20.52 | 20.62 | 22.00              |                    |
|                           |                 | MID       | 64QAM      | 20.54      | 20.44 | 20.55 | 22.00              |                    |
|                           |                 | HIGH      | 64QAM      | 20.50      | 20.33 | 20.66 | 22.00              |                    |
|                           | 50              | LOW       | 64QAM      | 19.22      | 19.12 | 19.24 | 21.00              |                    |
|                           |                 | MID       | 64QAM      | 19.14      | 19.24 | 19.38 | 21.00              |                    |
|                           |                 | HIGH      | 64QAM      | 19.19      | 19.27 | 19.24 | 21.00              |                    |
| 100                       | LOW             | 64QAM     | 19.08      | 19.27      | 19.23 | 21.00 |                    |                    |

| LTE B38-State1&3&5 -Ant.4 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 37775      | 38000 | 38225 | Tune-up power(dBm) |                    |
| 5                         | 1         | LOW       | QPSK       | 20.32      | 20.25 | 20.38 | 22.00              |                    |
|                           |           | MID       | QPSK       | 20.35      | 20.39 | 20.42 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 20.20      | 20.14 | 20.26 | 22.00              |                    |
|                           | 12        | LOW       | QPSK       | 20.26      | 20.26 | 20.40 | 22.00              |                    |
|                           |           | MID       | QPSK       | 20.33      | 20.29 | 20.40 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 20.34      | 20.30 | 20.27 | 22.00              |                    |
|                           | 25        | LOW       | QPSK       | 20.34      | 20.27 | 20.35 | 22.00              |                    |
|                           | 5         | 1         | LOW        | Q16        | 20.63 | 20.50 | 20.68              | 22.00              |
|                           |           |           | MID        | Q16        | 20.80 | 20.73 | 20.76              | 22.00              |
| HIGH                      |           |           | Q16        | 20.58      | 20.39 | 20.56 | 22.00              |                    |
| 12                        |           | LOW       | Q16        | 20.33      | 20.40 | 20.35 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.39      | 20.35 | 20.44 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.33      | 20.18 | 20.26 | 22.00              |                    |
| 25                        |           | LOW       | Q16        | 20.37      | 20.25 | 20.19 | 22.00              |                    |
| 5                         |           | 1         | LOW        | 64QAM      | 20.42 | 20.43 | 20.63              | 22.00              |
|                           |           |           | MID        | 64QAM      | 20.67 | 20.66 | 20.61              | 22.00              |
|                           | HIGH      |           | 64QAM      | 20.37      | 20.61 | 20.41 | 22.00              |                    |
|                           | 12        | LOW       | 64QAM      | 19.54      | 19.24 | 19.18 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 19.41      | 19.34 | 19.27 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 19.21      | 19.36 | 19.22 | 21.00              |                    |
|                           | 25        | LOW       | 64QAM      | 19.17      | 19.46 | 19.23 | 21.00              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 37800 | 38000 | 38200              | Tune-up power(dBm) |
|                           | 10        | 1         | LOW        | QPSK       | 20.28 | 20.24 | 20.24              | 22.00              |
| MID                       |           |           | QPSK       | 20.32      | 20.50 | 20.49 | 22.00              |                    |
| HIGH                      |           |           | QPSK       | 20.13      | 20.12 | 20.24 | 22.00              |                    |
| 25                        |           | LOW       | QPSK       | 20.32      | 20.38 | 20.42 | 22.00              |                    |
|                           |           | MID       | QPSK       | 20.35      | 20.25 | 20.35 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 20.32      | 20.29 | 20.33 | 22.00              |                    |
| 50                        | LOW       | QPSK      | 20.38      | 20.33      | 20.26 | 22.00 |                    |                    |
| 10                        | 1         | LOW       | Q16        | 20.52      | 20.56 | 20.63 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.72      | 20.57 | 20.82 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.48      | 20.57 | 20.51 | 22.00              |                    |
|                           | 25        | LOW       | Q16        | 20.24      | 20.30 | 20.31 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.26      | 20.36 | 20.28 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.26      | 20.19 | 20.29 | 22.00              |                    |
| 50                        | LOW       | Q16       | 20.32      | 20.44      | 20.37 | 22.00 |                    |                    |
| 10                        | 1         | LOW       | 64QAM      | 20.48      | 20.41 | 20.68 | 22.00              |                    |
|                           |           | MID       | 64QAM      | 20.75      | 20.75 | 20.65 | 22.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.54      | 20.59 | 20.37 | 22.00              |                    |
|                           | 25        | LOW       | 64QAM      | 19.48      | 19.13 | 19.22 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 19.35      | 19.38 | 19.18 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 19.32      | 19.20 | 19.36 | 21.00              |                    |
| 50                        | LOW       | 64QAM     | 19.22      | 19.39      | 19.09 | 21.00 |                    |                    |

| LTE B38-State1&3&5 -Ant.4 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 37825      | 38000 | 38175 | Tune-up power(dBm) |                    |
| 15                        | 1         | LOW       | QPSK       | 20.21      | 20.23 | 20.30 | 22.00              |                    |
|                           |           | MID       | QPSK       | 20.38      | 20.46 | 20.37 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 20.16      | 20.24 | 20.34 | 22.00              |                    |
|                           | 36        | LOW       | QPSK       | 20.25      | 20.43 | 20.33 | 22.00              |                    |
|                           |           | MID       | QPSK       | 20.43      | 20.33 | 20.29 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 20.33      | 20.23 | 20.32 | 22.00              |                    |
|                           | 75        | LOW       | QPSK       | 20.36      | 20.36 | 20.27 | 22.00              |                    |
|                           | 15        | 1         | LOW        | Q16        | 20.51 | 20.49 | 20.58              | 22.00              |
|                           |           |           | MID        | Q16        | 20.82 | 20.73 | 20.78              | 22.00              |
| HIGH                      |           |           | Q16        | 20.54      | 20.48 | 20.67 | 22.00              |                    |
| 36                        |           | LOW       | Q16        | 20.34      | 20.37 | 20.24 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.41      | 20.27 | 20.37 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.33      | 20.25 | 20.26 | 22.00              |                    |
| 75                        |           | LOW       | Q16        | 20.30      | 20.25 | 20.23 | 22.00              |                    |
| 15                        |           | 1         | LOW        | 64QAM      | 20.44 | 20.44 | 20.59              | 22.00              |
|                           |           |           | MID        | 64QAM      | 20.80 | 20.75 | 20.68              | 22.00              |
|                           | HIGH      |           | 64QAM      | 20.36      | 20.58 | 20.43 | 22.00              |                    |
|                           | 36        | LOW       | 64QAM      | 19.43      | 19.18 | 19.32 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 19.42      | 19.27 | 19.20 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 19.15      | 19.29 | 19.20 | 21.00              |                    |
|                           | 75        | LOW       | 64QAM      | 19.36      | 19.46 | 19.22 | 21.00              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 37850 | 38000 | 38150              | Tune-up power(dBm) |
|                           | 20        | 1         | LOW        | QPSK       | 20.21 | 20.18 | 20.23              | 22.00              |
| MID                       |           |           | QPSK       | 20.30      | 20.39 | 20.37 | 22.00              |                    |
| HIGH                      |           |           | QPSK       | 20.18      | 20.16 | 20.24 | 22.00              |                    |
| 50                        |           | LOW       | QPSK       | 20.28      | 20.30 | 20.28 | 22.00              |                    |
|                           |           | MID       | QPSK       | 20.24      | 20.31 | 20.25 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 20.23      | 20.25 | 20.19 | 22.00              |                    |
| 100                       | LOW       | QPSK      | 20.32      | 20.26      | 20.22 | 22.00 |                    |                    |
| 20                        | 1         | LOW       | Q16        | 20.54      | 20.44 | 20.54 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.68      | 20.58 | 20.71 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.53      | 20.43 | 20.53 | 22.00              |                    |
|                           | 50        | LOW       | Q16        | 20.28      | 20.27 | 20.27 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.29      | 20.28 | 20.30 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.26      | 20.22 | 20.25 | 22.00              |                    |
| 100                       | LOW       | Q16       | 20.29      | 20.30      | 20.22 | 22.00 |                    |                    |
| 20                        | 1         | LOW       | 64QAM      | 20.39      | 20.36 | 20.53 | 22.00              |                    |
|                           |           | MID       | 64QAM      | 20.69      | 20.63 | 20.63 | 22.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.39      | 20.47 | 20.38 | 22.00              |                    |
|                           | 50        | LOW       | 64QAM      | 19.42      | 19.17 | 19.22 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 19.39      | 19.32 | 19.18 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 19.19      | 19.25 | 19.21 | 21.00              |                    |
| 100                       | LOW       | 64QAM     | 19.21      | 19.38      | 19.14 | 21.00 |                    |                    |

| LTE B38-State2&4 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth               | RB Size   | RB offset | Modulation | 37775      | 38000 | 38225 | Tune-up power(dBm) |                    |
| 5                       | 1         | LOW       | QPSK       | 15.76      | 15.78 | 15.88 | 17.50              |                    |
|                         |           | MID       | QPSK       | 16.01      | 16.00 | 16.01 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 15.78      | 15.82 | 15.83 | 17.50              |                    |
|                         | 12        | LOW       | QPSK       | 15.95      | 15.89 | 15.92 | 17.50              |                    |
|                         |           | MID       | QPSK       | 15.86      | 15.89 | 15.82 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 15.84      | 15.94 | 15.83 | 17.50              |                    |
|                         | 25        | LOW       | QPSK       | 15.87      | 15.94 | 15.74 | 17.50              |                    |
|                         | 5         | 1         | LOW        | Q16        | 16.14 | 15.94 | 16.16              | 17.50              |
|                         |           |           | MID        | Q16        | 16.23 | 16.19 | 16.37              | 17.50              |
| HIGH                    |           |           | Q16        | 16.08      | 16.08 | 16.13 | 17.50              |                    |
| 12                      |           | LOW       | Q16        | 15.99      | 15.91 | 15.90 | 17.50              |                    |
|                         |           | MID       | Q16        | 15.84      | 15.98 | 15.93 | 17.50              |                    |
|                         |           | HIGH      | Q16        | 15.74      | 15.92 | 15.80 | 17.50              |                    |
| 25                      |           | LOW       | Q16        | 15.91      | 15.95 | 15.70 | 17.50              |                    |
| 5                       |           | 1         | LOW        | 64QAM      | 16.02 | 16.08 | 15.94              | 17.50              |
|                         |           |           | MID        | 64QAM      | 16.44 | 16.32 | 16.26              | 17.50              |
|                         | HIGH      |           | 64QAM      | 16.20      | 16.07 | 16.15 | 17.50              |                    |
|                         | 12        | LOW       | 64QAM      | 15.91      | 15.69 | 15.94 | 17.50              |                    |
|                         |           | MID       | 64QAM      | 16.03      | 15.96 | 15.88 | 17.50              |                    |
|                         |           | HIGH      | 64QAM      | 15.75      | 16.07 | 15.96 | 17.50              |                    |
|                         | 25        | LOW       | 64QAM      | 15.91      | 15.93 | 15.91 | 17.50              |                    |
|                         | Bandwidth | RB Size   | RB offset  | Modulation | 37800 | 38000 | 38200              | Tune-up power(dBm) |
|                         | 10        | 1         | LOW        | QPSK       | 15.83 | 15.84 | 15.96              | 17.50              |
| MID                     |           |           | QPSK       | 15.93      | 15.91 | 15.91 | 17.50              |                    |
| HIGH                    |           |           | QPSK       | 15.78      | 15.79 | 15.81 | 17.50              |                    |
| 25                      |           | LOW       | QPSK       | 15.94      | 15.91 | 15.88 | 17.50              |                    |
|                         |           | MID       | QPSK       | 16.03      | 15.92 | 15.96 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 15.86      | 15.84 | 15.82 | 17.50              |                    |
| 50                      | LOW       | QPSK      | 15.93      | 15.91      | 15.85 | 17.50 |                    |                    |
| 10                      | 1         | LOW       | Q16        | 16.24      | 15.93 | 16.14 | 17.50              |                    |
|                         |           | MID       | Q16        | 16.28      | 16.07 | 16.25 | 17.50              |                    |
|                         |           | HIGH      | Q16        | 16.22      | 15.99 | 16.20 | 17.50              |                    |
|                         | 25        | LOW       | Q16        | 15.89      | 15.85 | 15.90 | 17.50              |                    |
|                         |           | MID       | Q16        | 15.98      | 15.93 | 15.89 | 17.50              |                    |
|                         |           | HIGH      | Q16        | 15.86      | 15.93 | 15.78 | 17.50              |                    |
|                         | 50        | LOW       | Q16        | 15.87      | 15.87 | 15.86 | 17.50              |                    |
|                         | 10        | 1         | LOW        | 64QAM      | 15.97 | 16.12 | 15.99              | 17.50              |
|                         |           |           | MID        | 64QAM      | 16.34 | 16.39 | 16.34              | 17.50              |
| HIGH                    |           |           | 64QAM      | 16.24      | 16.11 | 16.12 | 17.50              |                    |
| 25                      |           | LOW       | 64QAM      | 15.90      | 15.80 | 15.94 | 17.50              |                    |
|                         |           | MID       | 64QAM      | 15.92      | 15.97 | 15.94 | 17.50              |                    |
|                         |           | HIGH      | 64QAM      | 15.70      | 16.02 | 15.91 | 17.50              |                    |
| 50                      |           | LOW       | 64QAM      | 15.90      | 15.86 | 15.98 | 17.50              |                    |

| LTE B38-State2&4 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth               | RB Size   | RB offset | Modulation | 37825      | 38000 | 38175 | Tune-up power(dBm) |                    |
| 15                      | 1         | LOW       | QPSK       | 15.79      | 15.94 | 15.90 | 17.50              |                    |
|                         |           | MID       | QPSK       | 16.02      | 15.99 | 16.05 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 15.90      | 15.73 | 15.88 | 17.50              |                    |
|                         | 36        | LOW       | QPSK       | 15.96      | 15.83 | 15.85 | 17.50              |                    |
|                         |           | MID       | QPSK       | 16.04      | 15.92 | 15.83 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 15.92      | 15.92 | 15.82 | 17.50              |                    |
|                         | 75        | LOW       | QPSK       | 15.94      | 15.83 | 15.84 | 17.50              |                    |
|                         | 15        | 1         | LOW        | Q16        | 16.17 | 16.00 | 16.17              | 17.50              |
|                         |           |           | MID        | Q16        | 16.18 | 16.14 | 16.32              | 17.50              |
| HIGH                    |           |           | Q16        | 16.17      | 16.05 | 16.08 | 17.50              |                    |
| 36                      |           | LOW       | Q16        | 15.81      | 15.91 | 15.88 | 17.50              |                    |
|                         |           | MID       | Q16        | 15.98      | 15.94 | 15.83 | 17.50              |                    |
|                         |           | HIGH      | Q16        | 15.74      | 15.83 | 15.84 | 17.50              |                    |
| 75                      |           | LOW       | Q16        | 15.90      | 15.78 | 15.74 | 17.50              |                    |
| 15                      |           | 1         | LOW        | 64QAM      | 16.07 | 16.09 | 15.96              | 17.50              |
|                         |           |           | MID        | 64QAM      | 16.40 | 16.37 | 16.30              | 17.50              |
|                         | HIGH      |           | 64QAM      | 16.20      | 16.11 | 16.12 | 17.50              |                    |
|                         | 36        | LOW       | 64QAM      | 15.91      | 15.77 | 15.83 | 17.50              |                    |
|                         |           | MID       | 64QAM      | 16.01      | 15.91 | 16.04 | 17.50              |                    |
|                         |           | HIGH      | 64QAM      | 15.83      | 15.99 | 15.77 | 17.50              |                    |
|                         | 75        | LOW       | 64QAM      | 15.97      | 15.82 | 15.86 | 17.50              |                    |
|                         | Bandwidth | RB Size   | RB offset  | Modulation | 37850 | 38000 | 38150              | Tune-up power(dBm) |
|                         | 20        | 1         | LOW        | QPSK       | 15.77 | 15.94 | 15.82              | 17.50              |
| MID                     |           |           | QPSK       | 15.87      | 15.89 | 15.79 | 17.50              |                    |
| HIGH                    |           |           | QPSK       | 15.75      | 15.76 | 15.79 | 17.50              |                    |
| 50                      |           | LOW       | QPSK       | 15.86      | 15.90 | 15.86 | 17.50              |                    |
|                         |           | MID       | QPSK       | 15.87      | 15.84 | 15.84 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 15.86      | 15.84 | 15.74 | 17.50              |                    |
| 100                     | LOW       | QPSK      | 15.82      | 15.83      | 15.74 | 17.50 |                    |                    |
| 20                      | 1         | LOW       | Q16        | 16.10      | 15.95 | 16.10 | 17.50              |                    |
|                         |           | MID       | Q16        | 16.19      | 16.12 | 16.25 | 17.50              |                    |
|                         |           | HIGH      | Q16        | 16.07      | 16.03 | 16.09 | 17.50              |                    |
|                         | 50        | LOW       | Q16        | 15.84      | 15.83 | 15.90 | 17.50              |                    |
|                         |           | MID       | Q16        | 15.88      | 15.86 | 15.85 | 17.50              |                    |
|                         |           | HIGH      | Q16        | 15.77      | 15.79 | 15.80 | 17.50              |                    |
| 100                     | LOW       | Q16       | 15.83      | 15.82      | 15.74 | 17.50 |                    |                    |
| 20                      | 1         | LOW       | 64QAM      | 16.01      | 16.06 | 15.97 | 17.50              |                    |
|                         |           | MID       | 64QAM      | 16.29      | 16.25 | 16.26 | 17.50              |                    |
|                         |           | HIGH      | 64QAM      | 16.16      | 16.01 | 16.05 | 17.50              |                    |
|                         | 50        | LOW       | 64QAM      | 15.82      | 15.71 | 15.83 | 17.50              |                    |
|                         |           | MID       | 64QAM      | 15.91      | 15.93 | 15.92 | 17.50              |                    |
|                         |           | HIGH      | 64QAM      | 15.70      | 15.94 | 15.81 | 17.50              |                    |
| 100                     | LOW       | 64QAM     | 15.89      | 15.83      | 15.84 | 17.50 |                    |                    |

| LTE B38-State6 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-----------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth             | RB Size   | RB offset | Modulation | 37775      | 38000 | 38225 | Tune-up power(dBm) |                    |
| 5                     | 1         | LOW       | QPSK       | 14.86      | 14.79 | 14.94 | 16.50              |                    |
|                       |           | MID       | QPSK       | 14.85      | 15.00 | 14.98 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 14.76      | 14.71 | 14.80 | 16.50              |                    |
|                       | 12        | LOW       | QPSK       | 14.90      | 14.89 | 14.81 | 16.50              |                    |
|                       |           | MID       | QPSK       | 15.02      | 14.87 | 14.86 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 14.86      | 14.77 | 14.92 | 16.50              |                    |
|                       | 25        | LOW       | QPSK       | 14.92      | 14.87 | 14.72 | 16.50              |                    |
|                       | 5         | 1         | LOW        | Q16        | 15.12 | 14.95 | 15.20              | 16.50              |
|                       |           |           | MID        | Q16        | 15.20 | 15.22 | 15.26              | 16.50              |
| HIGH                  |           |           | Q16        | 15.00      | 15.02 | 15.01 | 16.50              |                    |
| 12                    |           | LOW       | Q16        | 14.93      | 14.95 | 14.88 | 16.50              |                    |
|                       |           | MID       | Q16        | 14.99      | 14.83 | 14.79 | 16.50              |                    |
|                       |           | HIGH      | Q16        | 14.90      | 14.79 | 14.95 | 16.50              |                    |
| 25                    |           | LOW       | Q16        | 14.94      | 14.89 | 14.76 | 16.50              |                    |
| 5                     |           | 1         | LOW        | 64QAM      | 15.17 | 15.26 | 15.18              | 16.50              |
|                       |           |           | MID        | 64QAM      | 15.42 | 15.21 | 15.36              | 16.50              |
|                       | HIGH      |           | 64QAM      | 14.95      | 14.94 | 15.33 | 16.50              |                    |
|                       | 12        | LOW       | 64QAM      | 14.99      | 14.98 | 14.72 | 16.50              |                    |
|                       |           | MID       | 64QAM      | 14.84      | 14.76 | 15.06 | 16.50              |                    |
|                       |           | HIGH      | 64QAM      | 14.74      | 14.83 | 14.88 | 16.50              |                    |
|                       | 25        | LOW       | 64QAM      | 14.82      | 15.01 | 14.73 | 16.50              |                    |
|                       | Bandwidth | RB Size   | RB offset  | Modulation | 37800 | 38000 | 38200              | Tune-up power(dBm) |
|                       | 10        | 1         | LOW        | QPSK       | 14.92 | 14.74 | 14.81              | 16.50              |
| MID                   |           |           | QPSK       | 14.95      | 14.85 | 15.04 | 16.50              |                    |
| HIGH                  |           |           | QPSK       | 14.76      | 14.82 | 14.85 | 16.50              |                    |
| 25                    |           | LOW       | QPSK       | 15.01      | 14.89 | 14.96 | 16.50              |                    |
|                       |           | MID       | QPSK       | 14.95      | 14.93 | 14.94 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 14.83      | 14.83 | 14.83 | 16.50              |                    |
| 50                    | LOW       | QPSK      | 14.91      | 14.92      | 14.76 | 16.50 |                    |                    |
| 10                    | 1         | LOW       | Q16        | 15.05      | 14.94 | 15.17 | 16.50              |                    |
|                       |           | MID       | Q16        | 15.29      | 15.07 | 15.28 | 16.50              |                    |
|                       |           | HIGH      | Q16        | 15.01      | 15.05 | 15.19 | 16.50              |                    |
|                       | 25        | LOW       | Q16        | 14.97      | 14.94 | 14.80 | 16.50              |                    |
|                       |           | MID       | Q16        | 14.87      | 14.80 | 14.82 | 16.50              |                    |
|                       |           | HIGH      | Q16        | 14.93      | 14.90 | 14.82 | 16.50              |                    |
|                       | 50        | LOW       | Q16        | 14.88      | 14.98 | 14.81 | 16.50              |                    |
|                       | 10        | 1         | LOW        | 64QAM      | 15.12 | 15.26 | 15.20              | 16.50              |
|                       |           |           | MID        | 64QAM      | 15.38 | 15.16 | 15.31              | 16.50              |
| HIGH                  |           |           | 64QAM      | 14.89      | 14.85 | 15.18 | 16.50              |                    |
| 25                    |           | LOW       | 64QAM      | 14.91      | 14.98 | 14.84 | 16.50              |                    |
|                       |           | MID       | 64QAM      | 14.94      | 14.76 | 15.11 | 16.50              |                    |
|                       |           | HIGH      | 64QAM      | 14.80      | 14.83 | 14.77 | 16.50              |                    |
| 50                    |           | LOW       | 64QAM      | 14.78      | 14.83 | 14.59 | 16.50              |                    |

| LTE B38-State6 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-----------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth             | RB Size   | RB offset | Modulation | 37825      | 38000 | 38175 | Tune-up power(dBm) |                    |
| 15                    | 1         | LOW       | QPSK       | 14.89      | 14.72 | 14.89 | 16.50              |                    |
|                       |           | MID       | QPSK       | 14.94      | 14.88 | 14.98 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 14.86      | 14.71 | 14.89 | 16.50              |                    |
|                       | 36        | LOW       | QPSK       | 15.04      | 14.80 | 14.81 | 16.50              |                    |
|                       |           | MID       | QPSK       | 14.94      | 14.86 | 14.85 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 14.88      | 14.91 | 14.77 | 16.50              |                    |
|                       | 75        | LOW       | QPSK       | 14.88      | 14.80 | 14.86 | 16.50              |                    |
|                       | 15        | 1         | LOW        | Q16        | 15.19 | 15.09 | 15.19              | 16.50              |
|                       |           |           | MID        | Q16        | 15.30 | 15.09 | 15.24              | 16.50              |
| HIGH                  |           |           | Q16        | 15.03      | 15.05 | 15.04 | 16.50              |                    |
| 36                    |           | LOW       | Q16        | 14.82      | 14.90 | 14.98 | 16.50              |                    |
|                       |           | MID       | Q16        | 14.85      | 14.91 | 14.90 | 16.50              |                    |
|                       |           | HIGH      | Q16        | 14.77      | 14.79 | 14.84 | 16.50              |                    |
| 75                    |           | LOW       | Q16        | 14.90      | 14.99 | 14.67 | 16.50              |                    |
| 15                    |           | 1         | LOW        | 64QAM      | 15.19 | 15.13 | 15.10              | 16.50              |
|                       |           |           | MID        | 64QAM      | 15.32 | 15.17 | 15.47              | 16.50              |
|                       | HIGH      |           | 64QAM      | 14.89      | 14.85 | 15.27 | 16.50              |                    |
|                       | 36        | LOW       | 64QAM      | 15.04      | 14.97 | 14.68 | 16.50              |                    |
|                       |           | MID       | 64QAM      | 14.92      | 14.65 | 15.05 | 16.50              |                    |
|                       |           | HIGH      | 64QAM      | 14.72      | 14.94 | 14.86 | 16.50              |                    |
|                       | 75        | LOW       | 64QAM      | 14.85      | 15.00 | 14.70 | 16.50              |                    |
|                       | Bandwidth | RB Size   | RB offset  | Modulation | 37850 | 38000 | 38150              | Tune-up power(dBm) |
|                       | 20        | 1         | LOW        | QPSK       | 14.79 | 14.93 | 14.84              | 16.50              |
| MID                   |           |           | QPSK       | 14.87      | 14.88 | 14.75 | 16.50              |                    |
| HIGH                  |           |           | QPSK       | 14.75      | 14.74 | 14.74 | 16.50              |                    |
| 50                    |           | LOW       | QPSK       | 14.83      | 14.90 | 14.84 | 16.50              |                    |
|                       |           | MID       | QPSK       | 14.89      | 14.84 | 14.80 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 14.83      | 14.81 | 14.77 | 16.50              |                    |
| 100                   | LOW       | QPSK      | 14.83      | 14.80      | 14.72 | 16.50 |                    |                    |
| 20                    | 1         | LOW       | Q16        | 15.06      | 14.98 | 15.10 | 16.50              |                    |
|                       |           | MID       | Q16        | 15.16      | 15.08 | 15.22 | 16.50              |                    |
|                       |           | HIGH      | Q16        | 15.00      | 14.93 | 15.05 | 16.50              |                    |
|                       | 50        | LOW       | Q16        | 14.87      | 14.83 | 14.84 | 16.50              |                    |
|                       |           | MID       | Q16        | 14.87      | 14.84 | 14.84 | 16.50              |                    |
|                       |           | HIGH      | Q16        | 14.81      | 14.76 | 14.80 | 16.50              |                    |
|                       | 100       | LOW       | Q16        | 14.82      | 14.86 | 14.71 | 16.50              |                    |
|                       | 20        | 1         | LOW        | 64QAM      | 15.05 | 15.11 | 15.09              | 16.50              |
|                       |           |           | MID        | 64QAM      | 15.31 | 15.12 | 15.36              | 16.50              |
| HIGH                  |           |           | 64QAM      | 14.88      | 14.84 | 15.18 | 16.50              |                    |
| 50                    |           | LOW       | 64QAM      | 14.96      | 14.93 | 14.71 | 16.50              |                    |
|                       |           | MID       | 64QAM      | 14.88      | 14.70 | 14.97 | 16.50              |                    |
|                       |           | HIGH      | 64QAM      | 14.68      | 14.82 | 14.81 | 16.50              |                    |
| 100                   |           | LOW       | 64QAM      | 14.80      | 14.88 | 14.60 | 16.50              |                    |

## 8.3.1 LTE Band38 Output Power

| LTE B38-Full Power -Ant.3 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 37775      | 38000 | 38225 | Tune-up power(dBm) |                    |
| 5                         | 1         | LOW       | QPSK       | 23.57      | 23.60 | 23.66 | 24.00              |                    |
|                           |           | MID       | QPSK       | 23.51      | 23.60 | 23.69 | 24.00              |                    |
|                           |           | HIGH      | QPSK       | 23.55      | 23.60 | 23.66 | 24.00              |                    |
|                           | 12        | LOW       | QPSK       | 22.58      | 22.59 | 22.69 | 23.00              |                    |
|                           |           | MID       | QPSK       | 22.49      | 22.57 | 22.63 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 22.48      | 22.51 | 22.55 | 23.00              |                    |
|                           | 25        | LOW       | QPSK       | 22.50      | 22.51 | 22.64 | 23.00              |                    |
|                           | 5         | 1         | LOW        | Q16        | 22.94 | 22.77 | 22.98              | 23.00              |
|                           |           |           | MID        | Q16        | 22.91 | 22.82 | 22.92              | 23.00              |
| HIGH                      |           |           | Q16        | 22.93      | 22.79 | 22.97 | 23.00              |                    |
| 12                        |           | LOW       | Q16        | 21.66      | 21.62 | 21.64 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.59      | 21.58 | 21.59 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.56      | 21.50 | 21.57 | 22.00              |                    |
| 25                        |           | LOW       | Q16        | 21.50      | 21.52 | 21.64 | 22.00              |                    |
| 5                         |           | 1         | LOW        | 64QAM      | 21.82 | 21.67 | 21.98              | 22.00              |
|                           |           |           | MID        | 64QAM      | 21.89 | 21.95 | 21.90              | 22.00              |
|                           | HIGH      |           | 64QAM      | 21.95      | 21.92 | 21.88 | 22.00              |                    |
|                           | 12        | LOW       | 64QAM      | 20.63      | 20.69 | 20.50 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.70      | 20.69 | 20.49 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.51      | 20.40 | 20.64 | 21.00              |                    |
|                           | 25        | LOW       | 64QAM      | 20.43      | 20.38 | 20.75 | 21.00              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 37800 | 38000 | 38200              | Tune-up power(dBm) |
|                           | 10        | 1         | LOW        | QPSK       | 23.53 | 23.40 | 23.45              | 24.00              |
| MID                       |           |           | QPSK       | 23.65      | 23.74 | 23.75 | 24.00              |                    |
| HIGH                      |           |           | QPSK       | 23.32      | 23.47 | 23.60 | 24.00              |                    |
| 25                        |           | LOW       | QPSK       | 22.48      | 22.69 | 22.55 | 23.00              |                    |
|                           |           | MID       | QPSK       | 22.53      | 22.65 | 22.55 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 22.46      | 22.61 | 22.64 | 23.00              |                    |
| 50                        | LOW       | QPSK      | 22.47      | 22.55      | 22.68 | 23.00 |                    |                    |
| 10                        | 1         | LOW       | Q16        | 22.63      | 22.60 | 22.72 | 23.00              |                    |
|                           |           | MID       | Q16        | 22.87      | 22.73 | 22.87 | 23.00              |                    |
|                           |           | HIGH      | Q16        | 22.65      | 22.77 | 22.97 | 23.00              |                    |
|                           | 25        | LOW       | Q16        | 21.34      | 21.66 | 21.56 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.64      | 21.65 | 21.58 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.48      | 21.41 | 21.56 | 22.00              |                    |
| 50                        | LOW       | Q16       | 21.33      | 21.40      | 21.40 | 22.00 |                    |                    |
| 10                        | 1         | LOW       | 64QAM      | 21.90      | 21.48 | 21.78 | 22.00              |                    |
|                           |           | MID       | 64QAM      | 21.99      | 21.96 | 21.99 | 22.00              |                    |
|                           |           | HIGH      | 64QAM      | 21.68      | 21.58 | 21.77 | 22.00              |                    |
|                           | 25        | LOW       | 64QAM      | 20.26      | 20.55 | 20.57 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.51      | 20.45 | 20.67 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.50      | 20.75 | 20.79 | 21.00              |                    |
|                           | 50        | LOW       | 64QAM      | 20.40      | 20.46 | 20.36 | 21.00              |                    |



| LTE B38-Full Power -Ant.3 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 37825      | 38000 | 38175 | Tune-up power(dBm) |                    |
| 15                        | 1         | LOW       | QPSK       | 23.41      | 23.43 | 23.60 | 24.00              |                    |
|                           |           | MID       | QPSK       | 23.62      | 23.56 | 23.89 | 24.00              |                    |
|                           |           | HIGH      | QPSK       | 23.39      | 23.50 | 23.82 | 24.00              |                    |
|                           | 36        | LOW       | QPSK       | 22.60      | 22.60 | 22.52 | 23.00              |                    |
|                           |           | MID       | QPSK       | 22.41      | 22.59 | 22.52 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 22.49      | 22.69 | 22.72 | 23.00              |                    |
|                           | 75        | LOW       | QPSK       | 22.55      | 22.48 | 22.68 | 23.00              |                    |
|                           | 15        | 1         | LOW        | Q16        | 22.90 | 22.80 | 22.85              | 23.00              |
|                           |           |           | MID        | Q16        | 22.96 | 22.77 | 22.97              | 23.00              |
| HIGH                      |           |           | Q16        | 22.82      | 22.70 | 23.00 | 23.00              |                    |
| 36                        |           | LOW       | Q16        | 21.59      | 21.54 | 21.52 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.52      | 21.62 | 21.61 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.35      | 21.43 | 21.44 | 22.00              |                    |
| 75                        |           | LOW       | Q16        | 21.32      | 21.66 | 21.55 | 22.00              |                    |
| 15                        |           | 1         | LOW        | 64QAM      | 21.94 | 21.39 | 21.85              | 22.00              |
|                           |           |           | MID        | 64QAM      | 21.73 | 21.78 | 21.77              | 22.00              |
|                           | HIGH      |           | 64QAM      | 21.74      | 21.63 | 21.93 | 22.00              |                    |
|                           | 36        | LOW       | 64QAM      | 20.48      | 20.34 | 20.57 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.61      | 20.72 | 20.71 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.48      | 20.73 | 20.55 | 21.00              |                    |
|                           | 75        | LOW       | 64QAM      | 20.46      | 20.46 | 20.44 | 21.00              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 37850 | 38000 | 38150              | Tune-up power(dBm) |
|                           | 20        | 1         | LOW        | QPSK       | 23.39 | 23.42 | 23.76              | 24.00              |
| MID                       |           |           | QPSK       | 23.53      | 23.65 | 23.59 | 24.00              |                    |
| HIGH                      |           |           | QPSK       | 23.47      | 23.52 | 23.67 | 24.00              |                    |
| 50                        |           | LOW       | QPSK       | 22.57      | 22.65 | 22.60 | 23.00              |                    |
|                           |           | MID       | QPSK       | 22.56      | 22.52 | 22.58 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 22.50      | 22.58 | 22.60 | 23.00              |                    |
| 100                       |           | LOW       | QPSK       | 22.56      | 22.59 | 22.55 | 23.00              |                    |
| 20                        |           | 1         | LOW        | Q16        | 22.76 | 22.65 | 22.85              | 23.00              |
|                           |           |           | MID        | Q16        | 22.87 | 22.84 | 22.96              | 23.00              |
|                           | HIGH      |           | Q16        | 22.75      | 22.71 | 22.98 | 23.00              |                    |
|                           | 50        | LOW       | Q16        | 21.48      | 21.52 | 21.58 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.49      | 21.50 | 21.64 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.42      | 21.52 | 21.59 | 22.00              |                    |
|                           | 100       | LOW       | Q16        | 21.45      | 21.55 | 21.51 | 22.00              |                    |
|                           | 20        | 1         | LOW        | 64QAM      | 21.82 | 21.53 | 21.92              | 22.00              |
|                           |           |           | MID        | 64QAM      | 21.86 | 21.81 | 21.91              | 22.00              |
| HIGH                      |           |           | 64QAM      | 21.67      | 21.63 | 21.91 | 22.00              |                    |
| 50                        |           | LOW       | 64QAM      | 20.36      | 20.45 | 20.47 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.53      | 20.60 | 20.74 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.36      | 20.65 | 20.66 | 21.00              |                    |
| 100                       |           | LOW       | 64QAM      | 20.44      | 20.41 | 20.39 | 21.00              |                    |

| LTE B38-State1&3&5 -Ant.3 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 37775      | 38000 | 38225 | Tune-up power(dBm) |                    |
| 5                         | 1         | LOW       | QPSK       | 21.21      | 21.34 | 21.37 | 22.00              |                    |
|                           |           | MID       | QPSK       | 21.31      | 21.32 | 21.40 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 21.28      | 21.34 | 21.39 | 22.00              |                    |
|                           | 12        | LOW       | QPSK       | 21.29      | 21.31 | 21.42 | 22.00              |                    |
|                           |           | MID       | QPSK       | 21.35      | 21.34 | 21.43 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 21.26      | 21.32 | 21.39 | 22.00              |                    |
|                           | 25        | LOW       | QPSK       | 21.21      | 21.28 | 21.37 | 22.00              |                    |
|                           | 5         | 1         | LOW        | Q16        | 21.28 | 21.26 | 21.37              | 22.00              |
|                           |           |           | MID        | Q16        | 21.71 | 21.51 | 21.72              | 22.00              |
| HIGH                      |           |           | Q16        | 21.68      | 21.53 | 21.75 | 22.00              |                    |
| 12                        |           | LOW       | Q16        | 21.68      | 21.53 | 21.73 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.44      | 21.40 | 21.42 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.37      | 21.32 | 21.34 | 22.00              |                    |
| 25                        |           | LOW       | Q16        | 21.31      | 21.31 | 21.34 | 22.00              |                    |
| 5                         |           | 1         | LOW        | 64QAM      | 21.29 | 21.30 | 21.42              | 22.00              |
|                           |           |           | MID        | 64QAM      | 21.70 | 21.43 | 21.59              | 22.00              |
|                           | HIGH      |           | 64QAM      | 21.57      | 21.65 | 21.68 | 22.00              |                    |
|                           | 12        | LOW       | 64QAM      | 20.82      | 20.46 | 20.59 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.40      | 20.43 | 20.38 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.48      | 20.27 | 20.27 | 21.00              |                    |
|                           | 25        | LOW       | 64QAM      | 20.35      | 20.44 | 20.31 | 21.00              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 37800 | 38000 | 38200              | Tune-up power(dBm) |
|                           | 10        | 1         | LOW        | QPSK       | 21.10 | 21.04 | 21.40              | 22.00              |
| MID                       |           |           | QPSK       | 21.29      | 21.36 | 21.44 | 22.00              |                    |
| HIGH                      |           |           | QPSK       | 21.31      | 21.33 | 21.38 | 22.00              |                    |
| 25                        |           | LOW       | QPSK       | 21.15      | 21.20 | 21.21 | 22.00              |                    |
|                           |           | MID       | QPSK       | 21.39      | 21.18 | 21.23 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 21.32      | 21.35 | 21.32 | 22.00              |                    |
| 50                        | LOW       | QPSK      | 21.19      | 21.45      | 21.45 | 22.00 |                    |                    |
| 10                        | 1         | LOW       | Q16        | 21.59      | 21.29 | 21.62 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.52      | 21.76 | 21.87 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.62      | 21.41 | 21.56 | 22.00              |                    |
|                           | 25        | LOW       | Q16        | 21.17      | 21.42 | 21.36 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.12      | 21.34 | 21.36 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.12      | 21.27 | 21.41 | 22.00              |                    |
| 50                        | LOW       | Q16       | 21.09      | 21.28      | 21.44 | 22.00 |                    |                    |
| 10                        | 1         | LOW       | 64QAM      | 21.53      | 21.53 | 21.66 | 22.00              |                    |
|                           |           | MID       | 64QAM      | 21.40      | 21.73 | 21.80 | 22.00              |                    |
|                           |           | HIGH      | 64QAM      | 21.52      | 21.72 | 21.71 | 22.00              |                    |
|                           | 25        | LOW       | 64QAM      | 20.20      | 20.12 | 20.30 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.12      | 20.12 | 20.66 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 19.98      | 20.54 | 20.26 | 21.00              |                    |
|                           | 50        | LOW       | 64QAM      | 20.32      | 20.32 | 20.34 | 21.00              |                    |

| LTE B38-State1&3&5 -Ant.3 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 37825      | 38000 | 38175 | Tune-up power(dBm) |                    |
| 15                        | 1         | LOW       | QPSK       | 21.23      | 21.19 | 21.46 | 22.00              |                    |
|                           |           | MID       | QPSK       | 21.41      | 21.40 | 21.67 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 21.21      | 21.19 | 21.38 | 22.00              |                    |
|                           | 36        | LOW       | QPSK       | 21.21      | 21.35 | 21.37 | 22.00              |                    |
|                           |           | MID       | QPSK       | 21.41      | 21.37 | 21.36 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 21.06      | 21.34 | 21.23 | 22.00              |                    |
|                           | 75        | LOW       | QPSK       | 21.41      | 21.34 | 21.22 | 22.00              |                    |
|                           | 15        | 1         | LOW        | Q16        | 21.41 | 21.36 | 21.63              | 22.00              |
|                           |           |           | MID        | Q16        | 21.56 | 21.70 | 21.89              | 22.00              |
| HIGH                      |           |           | Q16        | 21.43      | 21.52 | 21.80 | 22.00              |                    |
| 36                        |           | LOW       | Q16        | 21.28      | 21.45 | 21.52 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.21      | 21.19 | 21.39 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.24      | 21.31 | 21.29 | 22.00              |                    |
| 75                        |           | LOW       | Q16        | 21.24      | 21.43 | 21.44 | 22.00              |                    |
| 15                        |           | 1         | LOW        | 64QAM      | 21.51 | 21.54 | 21.67              | 22.00              |
|                           |           |           | MID        | 64QAM      | 21.54 | 21.68 | 21.82              | 22.00              |
|                           | HIGH      |           | 64QAM      | 21.52      | 21.63 | 21.64 | 22.00              |                    |
|                           | 36        | LOW       | 64QAM      | 20.08      | 20.39 | 20.37 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.05      | 20.23 | 20.44 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.23      | 20.50 | 20.30 | 21.00              |                    |
|                           | 75        | LOW       | 64QAM      | 20.41      | 20.55 | 20.26 | 21.00              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 37850 | 38000 | 38150              | Tune-up power(dBm) |
|                           | 20        | 1         | LOW        | QPSK       | 21.16 | 21.17 | 21.54              | 22.00              |
| MID                       |           |           | QPSK       | 21.29      | 21.39 | 21.33 | 22.00              |                    |
| HIGH                      |           |           | QPSK       | 21.17      | 21.26 | 21.43 | 22.00              |                    |
| 50                        |           | LOW       | QPSK       | 21.27      | 21.33 | 21.33 | 22.00              |                    |
|                           |           | MID       | QPSK       | 21.30      | 21.37 | 21.33 | 22.00              |                    |
|                           |           | HIGH      | QPSK       | 21.21      | 21.27 | 21.32 | 22.00              |                    |
| 100                       | LOW       | QPSK      | 21.29      | 21.30      | 21.33 | 22.00 |                    |                    |
| 20                        | 1         | LOW       | Q16        | 21.50      | 21.41 | 21.61 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.62      | 21.61 | 21.83 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.51      | 21.52 | 21.71 | 22.00              |                    |
|                           | 50        | LOW       | Q16        | 21.28      | 21.31 | 21.38 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.23      | 21.32 | 21.40 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.21      | 21.29 | 21.40 | 22.00              |                    |
| 100                       | LOW       | Q16       | 21.24      | 21.31      | 21.36 | 22.00 |                    |                    |
| 20                        | 1         | LOW       | 64QAM      | 21.39      | 21.54 | 21.53 | 22.00              |                    |
|                           |           | MID       | 64QAM      | 21.52      | 21.59 | 21.84 | 22.00              |                    |
|                           |           | HIGH      | 64QAM      | 21.57      | 21.59 | 21.73 | 22.00              |                    |
|                           | 50        | LOW       | 64QAM      | 20.19      | 20.25 | 20.39 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.11      | 20.22 | 20.53 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.09      | 20.42 | 20.40 | 21.00              |                    |
| 100                       | LOW       | 64QAM     | 20.39      | 20.45      | 20.41 | 21.00 |                    |                    |

| LTE B38-State2&4&6 -Ant.3 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 37775      | 38000 | 38225 | Tune-up power(dBm) |                    |
| 5                         | 1         | LOW       | QPSK       | 23.57      | 23.60 | 23.66 | 24.00              |                    |
|                           |           | MID       | QPSK       | 23.51      | 23.60 | 23.69 | 24.00              |                    |
|                           |           | HIGH      | QPSK       | 23.55      | 23.60 | 23.66 | 24.00              |                    |
|                           | 12        | LOW       | QPSK       | 22.58      | 22.59 | 22.69 | 23.00              |                    |
|                           |           | MID       | QPSK       | 22.49      | 22.57 | 22.63 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 22.48      | 22.51 | 22.55 | 23.00              |                    |
|                           | 25        | LOW       | QPSK       | 22.50      | 22.51 | 22.64 | 23.00              |                    |
|                           | 5         | 1         | LOW        | Q16        | 22.94 | 22.77 | 22.98              | 23.00              |
|                           |           |           | MID        | Q16        | 22.91 | 22.82 | 22.92              | 23.00              |
| HIGH                      |           |           | Q16        | 22.93      | 22.79 | 22.97 | 23.00              |                    |
| 12                        |           | LOW       | Q16        | 21.66      | 21.62 | 21.64 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.59      | 21.58 | 21.59 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.56      | 21.50 | 21.57 | 22.00              |                    |
| 25                        |           | LOW       | Q16        | 21.50      | 21.52 | 21.64 | 22.00              |                    |
| 5                         |           | 1         | LOW        | 64QAM      | 21.82 | 21.67 | 21.98              | 22.00              |
|                           |           |           | MID        | 64QAM      | 21.89 | 21.95 | 21.90              | 22.00              |
|                           | HIGH      |           | 64QAM      | 21.95      | 21.92 | 21.88 | 22.00              |                    |
|                           | 12        | LOW       | 64QAM      | 20.63      | 20.69 | 20.50 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.70      | 20.69 | 20.49 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.51      | 20.40 | 20.64 | 21.00              |                    |
|                           | 25        | LOW       | 64QAM      | 20.43      | 20.38 | 20.75 | 21.00              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 37800 | 38000 | 38200              | Tune-up power(dBm) |
|                           | 10        | 1         | LOW        | QPSK       | 23.53 | 23.40 | 23.45              | 24.00              |
| MID                       |           |           | QPSK       | 23.65      | 23.74 | 23.75 | 24.00              |                    |
| HIGH                      |           |           | QPSK       | 23.32      | 23.47 | 23.60 | 24.00              |                    |
| 25                        |           | LOW       | QPSK       | 22.48      | 22.69 | 22.55 | 23.00              |                    |
|                           |           | MID       | QPSK       | 22.53      | 22.65 | 22.55 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 22.46      | 22.61 | 22.64 | 23.00              |                    |
| 50                        | LOW       | QPSK      | 22.47      | 22.55      | 22.68 | 23.00 |                    |                    |
| 10                        | 1         | LOW       | Q16        | 22.63      | 22.60 | 22.72 | 23.00              |                    |
|                           |           | MID       | Q16        | 22.87      | 22.73 | 22.87 | 23.00              |                    |
|                           |           | HIGH      | Q16        | 22.65      | 22.77 | 22.97 | 23.00              |                    |
|                           | 25        | LOW       | Q16        | 21.34      | 21.66 | 21.56 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.64      | 21.65 | 21.58 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.48      | 21.41 | 21.56 | 22.00              |                    |
| 50                        | LOW       | Q16       | 21.33      | 21.40      | 21.40 | 22.00 |                    |                    |
| 10                        | 1         | LOW       | 64QAM      | 21.90      | 21.48 | 21.78 | 22.00              |                    |
|                           |           | MID       | 64QAM      | 21.99      | 21.96 | 21.99 | 22.00              |                    |
|                           |           | HIGH      | 64QAM      | 21.68      | 21.58 | 21.77 | 22.00              |                    |
|                           | 25        | LOW       | 64QAM      | 20.26      | 20.55 | 20.57 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.51      | 20.45 | 20.67 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.50      | 20.75 | 20.79 | 21.00              |                    |
|                           | 50        | LOW       | 64QAM      | 20.40      | 20.46 | 20.36 | 21.00              |                    |

| LTE B38-State2&4&6 -Ant.3 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 37825      | 38000 | 38175 | Tune-up power(dBm) |                    |
| 15                        | 1         | LOW       | QPSK       | 23.41      | 23.43 | 23.60 | 24.00              |                    |
|                           |           | MID       | QPSK       | 23.62      | 23.56 | 23.89 | 24.00              |                    |
|                           |           | HIGH      | QPSK       | 23.39      | 23.50 | 23.82 | 24.00              |                    |
|                           | 36        | LOW       | QPSK       | 22.60      | 22.60 | 22.52 | 23.00              |                    |
|                           |           | MID       | QPSK       | 22.41      | 22.59 | 22.52 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 22.49      | 22.69 | 22.72 | 23.00              |                    |
|                           | 75        | LOW       | QPSK       | 22.55      | 22.48 | 22.68 | 23.00              |                    |
|                           | 15        | 1         | LOW        | Q16        | 22.90 | 22.80 | 22.85              | 23.00              |
|                           |           |           | MID        | Q16        | 22.96 | 22.77 | 22.97              | 23.00              |
| HIGH                      |           |           | Q16        | 22.82      | 22.70 | 23.00 | 23.00              |                    |
| 36                        |           | LOW       | Q16        | 21.59      | 21.54 | 21.52 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.52      | 21.62 | 21.61 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.35      | 21.43 | 21.44 | 22.00              |                    |
| 75                        |           | LOW       | Q16        | 21.32      | 21.66 | 21.55 | 22.00              |                    |
| 15                        |           | 1         | LOW        | 64QAM      | 21.94 | 21.39 | 21.85              | 22.00              |
|                           |           |           | MID        | 64QAM      | 21.73 | 21.78 | 21.77              | 22.00              |
|                           | HIGH      |           | 64QAM      | 21.74      | 21.63 | 21.93 | 22.00              |                    |
|                           | 36        | LOW       | 64QAM      | 20.48      | 20.34 | 20.57 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.61      | 20.72 | 20.71 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.48      | 20.73 | 20.55 | 21.00              |                    |
|                           | 75        | LOW       | 64QAM      | 20.46      | 20.46 | 20.44 | 21.00              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 37850 | 38000 | 38150              | Tune-up power(dBm) |
|                           | 20        | 1         | LOW        | QPSK       | 23.39 | 23.42 | 23.76              | 24.00              |
| MID                       |           |           | QPSK       | 23.53      | 23.65 | 23.59 | 24.00              |                    |
| HIGH                      |           |           | QPSK       | 23.47      | 23.52 | 23.67 | 24.00              |                    |
| 50                        |           | LOW       | QPSK       | 22.57      | 22.65 | 22.60 | 23.00              |                    |
|                           |           | MID       | QPSK       | 22.56      | 22.52 | 22.58 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 22.50      | 22.58 | 22.60 | 23.00              |                    |
| 100                       | LOW       | QPSK      | 22.56      | 22.59      | 22.55 | 23.00 |                    |                    |
| 20                        | 1         | LOW       | Q16        | 22.76      | 22.65 | 22.85 | 23.00              |                    |
|                           |           | MID       | Q16        | 22.87      | 22.84 | 22.96 | 23.00              |                    |
|                           |           | HIGH      | Q16        | 22.75      | 22.71 | 22.98 | 23.00              |                    |
|                           | 50        | LOW       | Q16        | 21.48      | 21.52 | 21.58 | 22.00              |                    |
|                           |           | MID       | Q16        | 21.49      | 21.50 | 21.64 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 21.42      | 21.52 | 21.59 | 22.00              |                    |
| 100                       | LOW       | Q16       | 21.45      | 21.55      | 21.51 | 22.00 |                    |                    |
| 20                        | 1         | LOW       | 64QAM      | 21.82      | 21.53 | 21.92 | 22.00              |                    |
|                           |           | MID       | 64QAM      | 21.86      | 21.81 | 21.91 | 22.00              |                    |
|                           |           | HIGH      | 64QAM      | 21.67      | 21.63 | 21.91 | 22.00              |                    |
|                           | 50        | LOW       | 64QAM      | 20.36      | 20.45 | 20.47 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 20.53      | 20.60 | 20.74 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 20.36      | 20.65 | 20.66 | 21.00              |                    |
| 100                       | LOW       | 64QAM     | 20.44      | 20.41      | 20.39 | 21.00 |                    |                    |

### 8.3.11 LTE Band41 Output Power

| LTE B41-Full Power -Ant.4 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 39675      | 40620 | 41565 | Tune-up power(dBm) |                    |
| 5                         | 1         | LOW       | QPSK       | 22.91      | 22.28 | 22.38 | 24.00              |                    |
|                           |           | MID       | QPSK       | 22.92      | 22.26 | 22.36 | 24.00              |                    |
|                           |           | HIGH      | QPSK       | 22.90      | 22.25 | 22.35 | 24.00              |                    |
|                           | 12        | LOW       | QPSK       | 21.89      | 21.22 | 21.33 | 23.00              |                    |
|                           |           | MID       | QPSK       | 21.80      | 21.18 | 21.32 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 21.83      | 21.19 | 21.27 | 23.00              |                    |
|                           | 25        | LOW       | QPSK       | 21.83      | 21.22 | 21.30 | 23.00              |                    |
|                           | 5         | 1         | LOW        | Q16        | 22.03 | 21.57 | 21.56              | 23.00              |
|                           |           |           | MID        | Q16        | 22.05 | 21.63 | 21.55              | 23.00              |
| HIGH                      |           |           | Q16        | 22.03      | 21.57 | 21.52 | 23.00              |                    |
| 12                        |           | LOW       | Q16        | 20.89      | 20.22 | 20.42 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.85      | 20.16 | 20.39 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.84      | 20.14 | 20.36 | 22.00              |                    |
| 25                        |           | LOW       | Q16        | 20.84      | 20.23 | 20.30 | 22.00              |                    |
| 5                         |           | 1         | LOW        | 64QAM      | 20.94 | 20.48 | 20.64              | 22.00              |
|                           |           |           | MID        | 64QAM      | 21.08 | 20.56 | 20.70              | 22.00              |
|                           | HIGH      |           | 64QAM      | 21.17      | 20.50 | 20.46 | 22.00              |                    |
|                           | 12        | LOW       | 64QAM      | 20.01      | 19.33 | 19.46 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 19.84      | 19.07 | 19.50 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 19.73      | 19.00 | 19.49 | 21.00              |                    |
|                           | 25        | LOW       | 64QAM      | 19.78      | 19.09 | 19.40 | 21.00              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 39700 | 40620 | 41540              | Tune-up power(dBm) |
|                           | 10        | 1         | LOW        | QPSK       | 22.67 | 22.11 | 22.29              | 24.00              |
| MID                       |           |           | QPSK       | 22.74      | 22.31 | 22.26 | 24.00              |                    |
| HIGH                      |           |           | QPSK       | 22.57      | 22.20 | 22.16 | 24.00              |                    |
| 25                        |           | LOW       | QPSK       | 21.93      | 21.13 | 21.48 | 23.00              |                    |
|                           |           | MID       | QPSK       | 21.76      | 21.36 | 21.45 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 21.86      | 21.33 | 21.43 | 23.00              |                    |
| 50                        |           | LOW       | QPSK       | 21.71      | 21.38 | 21.43 | 23.00              |                    |
| 10                        |           | 1         | LOW        | Q16        | 22.18 | 21.24 | 21.29              | 23.00              |
|                           |           |           | MID        | Q16        | 22.11 | 21.46 | 21.19              | 23.00              |
|                           | HIGH      |           | Q16        | 21.89      | 21.24 | 21.55 | 23.00              |                    |
|                           | 25        | LOW       | Q16        | 20.70      | 20.17 | 20.29 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.87      | 20.34 | 20.16 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.53      | 20.26 | 20.36 | 22.00              |                    |
|                           | 50        | LOW       | Q16        | 20.72      | 20.13 | 20.06 | 22.00              |                    |
|                           | 10        | 1         | LOW        | 64QAM      | 21.23 | 20.32 | 20.14              | 22.00              |
|                           |           |           | MID        | 64QAM      | 21.17 | 20.65 | 20.40              | 22.00              |
| HIGH                      |           |           | 64QAM      | 20.95      | 20.38 | 20.70 | 22.00              |                    |
| 25                        |           | LOW       | 64QAM      | 19.55      | 19.51 | 19.16 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 19.58      | 19.48 | 19.39 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 19.77      | 19.22 | 19.47 | 21.00              |                    |
| 50                        |           | LOW       | 64QAM      | 19.83      | 19.35 | 19.35 | 21.00              |                    |

| LTE B41-Full Power -Ant.4 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 39725      | 40620 | 41515 | Tune-up power(dBm) |                    |
| 15                        | 1         | LOW       | QPSK       | 22.61      | 22.23 | 22.34 | 24.00              |                    |
|                           |           | MID       | QPSK       | 22.70      | 22.29 | 22.19 | 24.00              |                    |
|                           |           | HIGH      | QPSK       | 22.61      | 22.05 | 22.13 | 24.00              |                    |
|                           | 36        | LOW       | QPSK       | 21.80      | 21.27 | 21.43 | 23.00              |                    |
|                           |           | MID       | QPSK       | 21.85      | 21.30 | 21.39 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 21.77      | 21.15 | 21.19 | 23.00              |                    |
|                           | 75        | LOW       | QPSK       | 21.61      | 21.17 | 21.21 | 23.00              |                    |
|                           | 15        | 1         | LOW        | Q16        | 22.02 | 21.23 | 21.39              | 23.00              |
|                           |           |           | MID        | Q16        | 22.03 | 21.62 | 21.38              | 23.00              |
| HIGH                      |           |           | Q16        | 21.80      | 21.29 | 21.37 | 23.00              |                    |
| 36                        |           | LOW       | Q16        | 20.64      | 20.27 | 20.11 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.70      | 20.19 | 20.22 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.57      | 20.15 | 20.29 | 22.00              |                    |
| 75                        |           | LOW       | Q16        | 20.82      | 20.28 | 20.24 | 22.00              |                    |
| 15                        |           | 1         | LOW        | 64QAM      | 21.04 | 20.47 | 20.23              | 22.00              |
|                           |           |           | MID        | 64QAM      | 21.20 | 20.49 | 20.46              | 22.00              |
|                           | HIGH      |           | 64QAM      | 21.13      | 20.30 | 20.66 | 22.00              |                    |
|                           | 36        | LOW       | 64QAM      | 19.69      | 19.37 | 19.40 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 19.70      | 19.43 | 19.37 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 19.84      | 19.19 | 19.51 | 21.00              |                    |
|                           | 75        | LOW       | 64QAM      | 19.69      | 19.39 | 19.13 | 21.00              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 39750 | 40620 | 41490              | Tune-up power(dBm) |
|                           | 20        | 1         | LOW        | QPSK       | 22.69 | 22.11 | 22.22              | 24.00              |
| MID                       |           |           | QPSK       | 22.82      | 22.30 | 22.33 | 24.00              |                    |
| HIGH                      |           |           | QPSK       | 22.57      | 22.16 | 22.16 | 24.00              |                    |
| 50                        |           | LOW       | QPSK       | 21.80      | 21.24 | 21.38 | 23.00              |                    |
|                           |           | MID       | QPSK       | 21.81      | 21.25 | 21.39 | 23.00              |                    |
|                           |           | HIGH      | QPSK       | 21.74      | 21.26 | 21.29 | 23.00              |                    |
| 100                       |           | LOW       | QPSK       | 21.74      | 21.23 | 21.33 | 23.00              |                    |
| 20                        |           | 1         | LOW        | Q16        | 22.04 | 21.37 | 21.24              | 23.00              |
|                           |           |           | MID        | Q16        | 22.16 | 21.52 | 21.30              | 23.00              |
|                           | HIGH      |           | Q16        | 21.90      | 21.37 | 21.45 | 23.00              |                    |
|                           | 50        | LOW       | Q16        | 20.73      | 20.28 | 20.16 | 22.00              |                    |
|                           |           | MID       | Q16        | 20.75      | 20.27 | 20.20 | 22.00              |                    |
|                           |           | HIGH      | Q16        | 20.66      | 20.19 | 20.30 | 22.00              |                    |
|                           | 100       | LOW       | Q16        | 20.69      | 20.24 | 20.09 | 22.00              |                    |
|                           | 20        | 1         | LOW        | 64QAM      | 21.08 | 20.40 | 20.28              | 22.00              |
|                           |           |           | MID        | 64QAM      | 21.29 | 20.50 | 20.31              | 22.00              |
| HIGH                      |           |           | 64QAM      | 21.05      | 20.23 | 20.56 | 22.00              |                    |
| 50                        |           | LOW       | 64QAM      | 19.67      | 19.37 | 19.25 | 21.00              |                    |
|                           |           | MID       | 64QAM      | 19.65      | 19.42 | 19.30 | 21.00              |                    |
|                           |           | HIGH      | 64QAM      | 19.81      | 19.24 | 19.42 | 21.00              |                    |
| 100                       |           | LOW       | 64QAM      | 19.74      | 19.36 | 19.23 | 21.00              |                    |

| LTE B41-State1 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-----------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth             | RB Size   | RB offset | Modulation | 39675      | 40620 | 41565 | Tune-up power(dBm) |                    |
| 5                     | 1         | LOW       | QPSK       | 19.60      | 19.45 | 19.49 | 21.00              |                    |
|                       |           | MID       | QPSK       | 19.63      | 19.65 | 19.50 | 21.00              |                    |
|                       |           | HIGH      | QPSK       | 19.59      | 19.61 | 19.58 | 21.00              |                    |
|                       | 12        | LOW       | QPSK       | 19.60      | 19.62 | 19.75 | 21.00              |                    |
|                       |           | MID       | QPSK       | 19.57      | 19.55 | 19.56 | 21.00              |                    |
|                       |           | HIGH      | QPSK       | 19.55      | 19.49 | 19.48 | 21.00              |                    |
|                       | 25        | LOW       | QPSK       | 19.59      | 19.57 | 19.65 | 21.00              |                    |
|                       | 5         | 1         | LOW        | Q16        | 19.91 | 19.83 | 19.80              | 21.00              |
|                       |           |           | MID        | Q16        | 19.93 | 19.89 | 19.98              | 21.00              |
| HIGH                  |           |           | Q16        | 19.90      | 19.87 | 20.01 | 21.00              |                    |
| 12                    |           | LOW       | Q16        | 19.59      | 19.48 | 19.55 | 21.00              |                    |
|                       |           | MID       | Q16        | 19.55      | 19.70 | 19.70 | 21.00              |                    |
|                       |           | HIGH      | Q16        | 19.53      | 19.60 | 19.50 | 21.00              |                    |
| 25                    |           | LOW       | Q16        | 19.62      | 19.47 | 19.53 | 21.00              |                    |
| 5                     |           | 1         | LOW        | 64QAM      | 19.87 | 19.89 | 19.83              | 21.00              |
|                       |           |           | MID        | 64QAM      | 19.98 | 19.95 | 20.07              | 21.00              |
|                       | HIGH      |           | 64QAM      | 19.81      | 19.92 | 19.99 | 21.00              |                    |
|                       | 12        | LOW       | 64QAM      | 19.55      | 19.59 | 19.40 | 21.00              |                    |
|                       |           | MID       | 64QAM      | 19.52      | 19.59 | 19.72 | 21.00              |                    |
|                       |           | HIGH      | 64QAM      | 19.53      | 19.70 | 19.57 | 21.00              |                    |
|                       | 25        | LOW       | 64QAM      | 19.70      | 19.37 | 19.68 | 21.00              |                    |
|                       | Bandwidth | RB Size   | RB offset  | Modulation | 39700 | 40620 | 41540              | Tune-up power(dBm) |
|                       | 10        | 1         | LOW        | QPSK       | 19.54 | 19.25 | 19.41              | 21.00              |
| MID                   |           |           | QPSK       | 19.68      | 19.44 | 19.51 | 21.00              |                    |
| HIGH                  |           |           | QPSK       | 19.22      | 19.03 | 19.32 | 21.00              |                    |
| 25                    |           | LOW       | QPSK       | 19.58      | 19.31 | 19.15 | 21.00              |                    |
|                       |           | MID       | QPSK       | 19.65      | 19.41 | 19.19 | 21.00              |                    |
|                       |           | HIGH      | QPSK       | 19.47      | 19.18 | 19.06 | 21.00              |                    |
| 50                    |           | LOW       | QPSK       | 19.50      | 19.22 | 19.21 | 21.00              |                    |
| 10                    |           | 1         | LOW        | Q16        | 19.75 | 19.30 | 19.64              | 21.00              |
|                       |           |           | MID        | Q16        | 19.80 | 19.45 | 19.65              | 21.00              |
|                       | HIGH      |           | Q16        | 19.58      | 19.39 | 19.52 | 21.00              |                    |
|                       | 25        | LOW       | Q16        | 19.57      | 19.31 | 19.37 | 21.00              |                    |
|                       |           | MID       | Q16        | 19.54      | 19.40 | 19.28 | 21.00              |                    |
|                       |           | HIGH      | Q16        | 19.54      | 19.35 | 19.32 | 21.00              |                    |
|                       | 50        | LOW       | Q16        | 19.63      | 19.22 | 19.08 | 21.00              |                    |
|                       | 10        | 1         | LOW        | 64QAM      | 19.83 | 19.46 | 19.58              | 21.00              |
|                       |           |           | MID        | 64QAM      | 19.75 | 19.72 | 19.53              | 21.00              |
| HIGH                  |           |           | 64QAM      | 19.59      | 19.38 | 19.38 | 21.00              |                    |
| 25                    |           | LOW       | 64QAM      | 19.52      | 19.32 | 19.37 | 21.00              |                    |
|                       |           | MID       | 64QAM      | 19.77      | 19.07 | 19.31 | 21.00              |                    |
|                       |           | HIGH      | 64QAM      | 19.38      | 19.20 | 19.31 | 21.00              |                    |
| 50                    |           | LOW       | 64QAM      | 19.57      | 19.30 | 19.13 | 21.00              |                    |



| LTE B41-State1 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-----------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth             | RB Size   | RB offset | Modulation | 39725      | 40620 | 41515 | Tune-up power(dBm) |                    |
| 15                    | 1         | LOW       | QPSK       | 19.46      | 19.11 | 19.45 | 21.00              |                    |
|                       |           | MID       | QPSK       | 19.56      | 19.41 | 19.42 | 21.00              |                    |
|                       |           | HIGH      | QPSK       | 19.24      | 19.05 | 19.18 | 21.00              |                    |
|                       | 36        | LOW       | QPSK       | 19.50      | 19.42 | 19.17 | 21.00              |                    |
|                       |           | MID       | QPSK       | 19.63      | 19.24 | 19.37 | 21.00              |                    |
|                       |           | HIGH      | QPSK       | 19.31      | 19.30 | 19.05 | 21.00              |                    |
|                       | 75        | LOW       | QPSK       | 19.66      | 19.19 | 19.13 | 21.00              |                    |
|                       | 15        | 1         | LOW        | Q16        | 19.68 | 19.34 | 19.48              | 21.00              |
|                       |           |           | MID        | Q16        | 19.77 | 19.57 | 19.76              | 21.00              |
| HIGH                  |           |           | Q16        | 19.68      | 19.48 | 19.36 | 21.00              |                    |
| 36                    |           | LOW       | Q16        | 19.39      | 19.14 | 19.30 | 21.00              |                    |
|                       |           | MID       | Q16        | 19.43      | 19.34 | 19.31 | 21.00              |                    |
|                       |           | HIGH      | Q16        | 19.61      | 19.23 | 19.15 | 21.00              |                    |
| 75                    |           | LOW       | Q16        | 19.47      | 19.40 | 19.22 | 21.00              |                    |
| 15                    |           | 1         | LOW        | 64QAM      | 19.94 | 19.55 | 19.68              | 21.00              |
|                       |           |           | MID        | 64QAM      | 19.77 | 19.58 | 19.48              | 21.00              |
|                       | HIGH      |           | 64QAM      | 19.72      | 19.36 | 19.61 | 21.00              |                    |
|                       | 36        | LOW       | 64QAM      | 19.54      | 19.22 | 19.41 | 21.00              |                    |
|                       |           | MID       | 64QAM      | 19.53      | 19.01 | 19.44 | 21.00              |                    |
|                       |           | HIGH      | 64QAM      | 19.35      | 19.30 | 19.37 | 21.00              |                    |
|                       | 75        | LOW       | 64QAM      | 19.37      | 19.41 | 19.21 | 21.00              |                    |
|                       | Bandwidth | RB Size   | RB offset  | Modulation | 39750 | 40620 | 41490              | Tune-up power(dBm) |
|                       | 20        | 1         | LOW        | QPSK       | 19.47 | 19.16 | 19.35              | 21.00              |
| MID                   |           |           | QPSK       | 19.33      | 19.54 | 19.41 | 21.00              |                    |
| HIGH                  |           |           | QPSK       | 19.35      | 19.16 | 19.22 | 21.00              |                    |
| 50                    |           | LOW       | QPSK       | 19.50      | 19.27 | 19.27 | 21.00              |                    |
|                       |           | MID       | QPSK       | 19.26      | 19.58 | 19.27 | 21.00              |                    |
|                       |           | HIGH      | QPSK       | 19.46      | 19.21 | 19.16 | 21.00              |                    |
| 100                   |           | LOW       | QPSK       | 19.51      | 19.28 | 19.19 | 21.00              |                    |
| 20                    |           | 1         | LOW        | Q16        | 19.82 | 19.41 | 19.63              | 21.00              |
|                       |           |           | MID        | Q16        | 19.89 | 19.59 | 19.66              | 21.00              |
|                       | HIGH      |           | Q16        | 19.69      | 19.41 | 19.49 | 21.00              |                    |
|                       | 50        | LOW       | Q16        | 19.51      | 19.27 | 19.29 | 21.00              |                    |
|                       |           | MID       | Q16        | 19.53      | 19.28 | 19.29 | 21.00              |                    |
|                       |           | HIGH      | Q16        | 19.46      | 19.24 | 19.24 | 21.00              |                    |
|                       | 100       | LOW       | Q16        | 19.48      | 19.26 | 19.20 | 21.00              |                    |
|                       | 20        | 1         | LOW        | 64QAM      | 19.95 | 19.45 | 19.57              | 21.00              |
|                       |           |           | MID        | 64QAM      | 19.90 | 19.67 | 19.58              | 21.00              |
| HIGH                  |           |           | 64QAM      | 19.69      | 19.29 | 19.50 | 21.00              |                    |
| 50                    |           | LOW       | 64QAM      | 19.57      | 19.33 | 19.38 | 21.00              |                    |
|                       |           | MID       | 64QAM      | 19.65      | 19.14 | 19.38 | 21.00              |                    |
|                       |           | HIGH      | 64QAM      | 19.33      | 19.09 | 19.32 | 21.00              |                    |
| 100                   |           | LOW       | 64QAM      | 19.52      | 19.41 | 19.19 | 21.00              |                    |

| LTE B41-State2&4 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth               | RB Size   | RB offset | Modulation | 39675      | 40620 | 41565 | Tune-up power(dBm) |                    |
| 5                       | 1         | LOW       | QPSK       | 16.17      | 16.30 | 16.30 | 17.50              |                    |
|                         |           | MID       | QPSK       | 16.16      | 16.19 | 16.25 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 16.18      | 16.11 | 16.32 | 17.50              |                    |
|                         | 12        | LOW       | QPSK       | 16.14      | 16.15 | 16.16 | 17.50              |                    |
|                         |           | MID       | QPSK       | 16.16      | 16.21 | 16.26 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 16.16      | 16.15 | 16.18 | 17.50              |                    |
|                         | 25        | LOW       | QPSK       | 16.12      | 16.10 | 16.27 | 17.50              |                    |
|                         | 5         | 1         | LOW        | Q16        | 16.36 | 16.27 | 16.50              | 17.50              |
|                         |           |           | MID        | Q16        | 16.33 | 16.40 | 16.20              | 17.50              |
| HIGH                    |           |           | Q16        | 16.32      | 16.19 | 16.47 | 17.50              |                    |
| 12                      |           | LOW       | Q16        | 16.17      | 16.13 | 16.12 | 17.50              |                    |
|                         |           | MID       | Q16        | 16.19      | 16.11 | 16.29 | 17.50              |                    |
|                         |           | HIGH      | Q16        | 16.19      | 16.34 | 16.27 | 17.50              |                    |
| 25                      |           | LOW       | Q16        | 16.17      | 16.28 | 16.21 | 17.50              |                    |
| 5                       |           | 1         | LOW        | 64QAM      | 16.46 | 16.22 | 16.61              | 17.50              |
|                         |           |           | MID        | 64QAM      | 16.47 | 16.46 | 16.22              | 17.50              |
|                         | HIGH      |           | 64QAM      | 16.30      | 16.31 | 16.43 | 17.50              |                    |
|                         | 12        | LOW       | 64QAM      | 16.24      | 16.07 | 16.05 | 17.50              |                    |
|                         |           | MID       | 64QAM      | 16.14      | 16.12 | 16.39 | 17.50              |                    |
|                         |           | HIGH      | 64QAM      | 16.30      | 16.33 | 16.31 | 17.50              |                    |
|                         | 25        | LOW       | 64QAM      | 16.17      | 16.35 | 16.17 | 17.50              |                    |
|                         | Bandwidth | RB Size   | RB offset  | Modulation | 39700 | 40620 | 41540              | Tune-up power(dBm) |
|                         | 10        | 1         | LOW        | QPSK       | 16.12 | 15.60 | 15.83              | 17.50              |
| MID                     |           |           | QPSK       | 16.20      | 15.75 | 16.01 | 17.50              |                    |
| HIGH                    |           |           | QPSK       | 16.08      | 15.69 | 15.84 | 17.50              |                    |
| 25                      |           | LOW       | QPSK       | 16.16      | 15.86 | 15.85 | 17.50              |                    |
|                         |           | MID       | QPSK       | 15.98      | 15.72 | 15.73 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 16.04      | 15.70 | 15.70 | 17.50              |                    |
| 50                      |           | LOW       | QPSK       | 16.16      | 15.68 | 15.70 | 17.50              |                    |
| 10                      |           | 1         | LOW        | Q16        | 16.43 | 15.89 | 16.20              | 17.50              |
|                         |           |           | MID        | Q16        | 16.40 | 16.14 | 15.99              | 17.50              |
|                         | HIGH      |           | Q16        | 16.10      | 15.88 | 15.94 | 17.50              |                    |
|                         | 25        | LOW       | Q16        | 16.12      | 15.95 | 15.85 | 17.50              |                    |
|                         |           | MID       | Q16        | 16.09      | 15.65 | 15.67 | 17.50              |                    |
|                         |           | HIGH      | Q16        | 16.17      | 15.78 | 15.85 | 17.50              |                    |
|                         | 50        | LOW       | Q16        | 15.95      | 15.74 | 15.70 | 17.50              |                    |
|                         | 10        | 1         | LOW        | 64QAM      | 16.42 | 15.91 | 16.06              | 17.50              |
|                         |           |           | MID        | 64QAM      | 16.66 | 16.01 | 16.14              | 17.50              |
| HIGH                    |           |           | 64QAM      | 16.28      | 16.03 | 16.04 | 17.50              |                    |
| 25                      |           | LOW       | 64QAM      | 16.19      | 16.02 | 16.04 | 17.50              |                    |
|                         |           | MID       | 64QAM      | 16.30      | 15.62 | 15.79 | 17.50              |                    |
|                         |           | HIGH      | 64QAM      | 15.83      | 16.00 | 15.92 | 17.50              |                    |
| 50                      |           | LOW       | 64QAM      | 15.99      | 15.81 | 15.87 | 17.50              |                    |

| LTE B41-State2&4 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth               | RB Size   | RB offset | Modulation | 39725      | 40620 | 41515 | Tune-up power(dBm) |                    |
| 15                      | 1         | LOW       | QPSK       | 15.93      | 15.70 | 15.73 | 17.50              |                    |
|                         |           | MID       | QPSK       | 16.17      | 15.71 | 15.84 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 15.92      | 15.59 | 15.83 | 17.50              |                    |
|                         | 36        | LOW       | QPSK       | 16.22      | 15.77 | 15.89 | 17.50              |                    |
|                         |           | MID       | QPSK       | 15.96      | 15.69 | 15.75 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 16.10      | 15.79 | 15.67 | 17.50              |                    |
|                         | 75        | LOW       | QPSK       | 16.14      | 15.77 | 15.74 | 17.50              |                    |
|                         | 15        | 1         | LOW        | Q16        | 16.35 | 15.87 | 16.17              | 17.50              |
|                         |           |           | MID        | Q16        | 16.49 | 15.92 | 16.16              | 17.50              |
| HIGH                    |           |           | Q16        | 16.28      | 15.90 | 16.04 | 17.50              |                    |
| 36                      |           | LOW       | Q16        | 16.11      | 15.84 | 15.89 | 17.50              |                    |
|                         |           | MID       | Q16        | 16.21      | 15.79 | 15.74 | 17.50              |                    |
|                         |           | HIGH      | Q16        | 16.11      | 15.78 | 15.82 | 17.50              |                    |
| 75                      |           | LOW       | Q16        | 16.14      | 15.77 | 15.81 | 17.50              |                    |
| 15                      |           | 1         | LOW        | 64QAM      | 16.35 | 16.09 | 16.24              | 17.50              |
|                         |           |           | MID        | 64QAM      | 16.42 | 15.96 | 15.95              | 17.50              |
|                         | HIGH      |           | 64QAM      | 16.18      | 15.97 | 16.09 | 17.50              |                    |
|                         | 36        | LOW       | 64QAM      | 16.27      | 16.07 | 15.93 | 17.50              |                    |
|                         |           | MID       | 64QAM      | 16.27      | 15.63 | 15.82 | 17.50              |                    |
|                         |           | HIGH      | 64QAM      | 16.06      | 15.93 | 15.78 | 17.50              |                    |
|                         | 75        | LOW       | 64QAM      | 15.85      | 15.70 | 15.68 | 17.50              |                    |
|                         | Bandwidth | RB Size   | RB offset  | Modulation | 39750 | 40620 | 41490              | Tune-up power(dBm) |
|                         | 20        | 1         | LOW        | QPSK       | 16.05 | 15.67 | 15.78              | 17.50              |
| MID                     |           |           | QPSK       | 15.89      | 16.13 | 15.86 | 17.50              |                    |
| HIGH                    |           |           | QPSK       | 15.95      | 15.63 | 15.72 | 17.50              |                    |
| 50                      |           | LOW       | QPSK       | 15.83      | 16.15 | 15.77 | 17.50              |                    |
|                         |           | MID       | QPSK       | 16.08      | 15.77 | 15.72 | 17.50              |                    |
|                         |           | HIGH      | QPSK       | 16.09      | 15.77 | 15.66 | 17.50              |                    |
| 100                     |           | LOW       | QPSK       | 16.03      | 15.74 | 15.69 | 17.50              |                    |
| 20                      |           | 1         | LOW        | Q16        | 16.37 | 15.91 | 16.11              | 17.50              |
|                         |           |           | MID        | Q16        | 16.45 | 16.02 | 16.12              | 17.50              |
|                         | HIGH      |           | Q16        | 16.24      | 15.92 | 16.00 | 17.50              |                    |
|                         | 50        | LOW       | Q16        | 16.10      | 15.83 | 15.81 | 17.50              |                    |
|                         |           | MID       | Q16        | 16.06      | 15.79 | 15.77 | 17.50              |                    |
|                         |           | HIGH      | Q16        | 16.04      | 15.78 | 15.71 | 17.50              |                    |
|                         | 100       | LOW       | Q16        | 16.07      | 15.76 | 15.72 | 17.50              |                    |
|                         | 20        | 1         | LOW        | 64QAM      | 16.44 | 16.03 | 16.16              | 17.50              |
|                         |           |           | MID        | 64QAM      | 16.53 | 16.03 | 16.08              | 17.50              |
| HIGH                    |           |           | 64QAM      | 16.28      | 15.99 | 16.09 | 17.50              |                    |
| 50                      |           | LOW       | 64QAM      | 16.19      | 15.97 | 15.89 | 17.50              |                    |
|                         |           | MID       | 64QAM      | 16.18      | 15.67 | 15.69 | 17.50              |                    |
|                         |           | HIGH      | 64QAM      | 15.96      | 15.85 | 15.85 | 17.50              |                    |
| 100                     |           | LOW       | 64QAM      | 15.98      | 15.83 | 15.59 | 17.50              |                    |

| LTE B41-State3&5 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth               | RB Size   | RB offset | Modulation | 39675      | 40620 | 41565 | Tune-up power(dBm) |                    |
| 5                       | 1         | LOW       | QPSK       | 17.80      | 17.92 | 17.92 | 19.50              |                    |
|                         |           | MID       | QPSK       | 18.06      | 18.11 | 17.93 | 19.50              |                    |
|                         |           | HIGH      | QPSK       | 18.02      | 17.94 | 18.16 | 19.50              |                    |
|                         | 12        | LOW       | QPSK       | 18.07      | 18.17 | 18.08 | 19.50              |                    |
|                         |           | MID       | QPSK       | 18.02      | 17.96 | 18.16 | 19.50              |                    |
|                         |           | HIGH      | QPSK       | 18.01      | 17.97 | 18.06 | 19.50              |                    |
|                         | 25        | LOW       | QPSK       | 18.04      | 18.06 | 18.08 | 19.50              |                    |
|                         | 5         | 1         | LOW        | Q16        | 18.27 | 18.24 | 18.27              | 19.50              |
|                         |           |           | MID        | Q16        | 18.29 | 18.41 | 18.16              | 19.50              |
| HIGH                    |           |           | Q16        | 18.23      | 18.26 | 18.33 | 19.50              |                    |
| 12                      |           | LOW       | Q16        | 18.11      | 18.13 | 18.13 | 19.50              |                    |
|                         |           | MID       | Q16        | 18.08      | 17.96 | 18.12 | 19.50              |                    |
|                         |           | HIGH      | Q16        | 18.08      | 18.15 | 18.06 | 19.50              |                    |
| 25                      |           | LOW       | Q16        | 18.07      | 18.10 | 18.10 | 19.50              |                    |
| 5                       |           | 1         | LOW        | 64QAM      | 18.22 | 18.37 | 18.17              | 19.50              |
|                         |           |           | MID        | 64QAM      | 18.35 | 18.42 | 18.11              | 19.50              |
|                         | HIGH      |           | 64QAM      | 18.38      | 18.40 | 18.18 | 19.50              |                    |
|                         | 12        | LOW       | 64QAM      | 18.13      | 18.17 | 18.09 | 19.50              |                    |
|                         |           | MID       | 64QAM      | 18.02      | 17.87 | 18.22 | 19.50              |                    |
|                         |           | HIGH      | 64QAM      | 18.11      | 18.22 | 18.19 | 19.50              |                    |
|                         | 25        | LOW       | 64QAM      | 17.96      | 17.95 | 18.10 | 19.50              |                    |
|                         | Bandwidth | RB Size   | RB offset  | Modulation | 39700 | 40620 | 41540              | Tune-up power(dBm) |
|                         | 10        | 1         | LOW        | QPSK       | 18.03 | 17.88 | 17.95              | 19.50              |
| MID                     |           |           | QPSK       | 18.09      | 18.04 | 18.04 | 19.50              |                    |
| HIGH                    |           |           | QPSK       | 17.94      | 17.78 | 17.66 | 19.50              |                    |
| 25                      |           | LOW       | QPSK       | 17.91      | 18.10 | 17.66 | 19.50              |                    |
|                         |           | MID       | QPSK       | 18.26      | 18.01 | 17.85 | 19.50              |                    |
|                         |           | HIGH      | QPSK       | 18.10      | 17.97 | 17.59 | 19.50              |                    |
| 50                      |           | LOW       | QPSK       | 17.94      | 17.95 | 17.81 | 19.50              |                    |
| 10                      |           | 1         | LOW        | Q16        | 18.32 | 18.17 | 17.82              | 19.50              |
|                         |           |           | MID        | Q16        | 18.41 | 17.95 | 17.65              | 19.50              |
|                         | HIGH      |           | Q16        | 18.24      | 17.90 | 17.67 | 19.50              |                    |
|                         | 25        | LOW       | Q16        | 18.04      | 17.84 | 17.73 | 19.50              |                    |
|                         |           | MID       | Q16        | 18.08      | 18.05 | 17.60 | 19.50              |                    |
|                         |           | HIGH      | Q16        | 17.88      | 17.81 | 17.87 | 19.50              |                    |
|                         | 50        | LOW       | Q16        | 18.16      | 18.23 | 17.59 | 19.50              |                    |
|                         | 10        | 1         | LOW        | 64QAM      | 18.27 | 18.15 | 17.71              | 19.50              |
|                         |           |           | MID        | 64QAM      | 18.55 | 17.86 | 17.73              | 19.50              |
| HIGH                    |           |           | 64QAM      | 18.09      | 17.84 | 17.61 | 19.50              |                    |
| 25                      |           | LOW       | 64QAM      | 17.99      | 17.74 | 17.91 | 19.50              |                    |
|                         |           | MID       | 64QAM      | 17.83      | 17.99 | 17.77 | 19.50              |                    |
|                         |           | HIGH      | 64QAM      | 18.12      | 17.73 | 17.67 | 19.50              |                    |
| 50                      |           | LOW       | 64QAM      | 17.75      | 18.33 | 17.67 | 19.50              |                    |

| LTE B41-State3&5 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth               | RB Size   | RB offset | Modulation | 39725      | 40620 | 41515 | Tune-up power(dBm) |                    |
| 15                      | 1         | LOW       | QPSK       | 17.97      | 17.87 | 17.86 | 19.50              |                    |
|                         |           | MID       | QPSK       | 18.00      | 18.16 | 17.87 | 19.50              |                    |
|                         |           | HIGH      | QPSK       | 17.76      | 17.89 | 17.76 | 19.50              |                    |
|                         | 36        | LOW       | QPSK       | 17.97      | 17.95 | 17.75 | 19.50              |                    |
|                         |           | MID       | QPSK       | 18.27      | 17.86 | 17.75 | 19.50              |                    |
|                         |           | HIGH      | QPSK       | 18.04      | 18.05 | 17.58 | 19.50              |                    |
|                         | 75        | LOW       | QPSK       | 18.10      | 18.18 | 17.89 | 19.50              |                    |
|                         | 15        | 1         | LOW        | Q16        | 18.34 | 18.11 | 17.70              | 19.50              |
|                         |           |           | MID        | Q16        | 18.41 | 18.03 | 17.89              | 19.50              |
| HIGH                    |           |           | Q16        | 18.12      | 17.97 | 17.69 | 19.50              |                    |
| 36                      |           | LOW       | Q16        | 18.18      | 17.99 | 17.78 | 19.50              |                    |
|                         |           | MID       | Q16        | 18.21      | 18.22 | 17.83 | 19.50              |                    |
|                         |           | HIGH      | Q16        | 18.06      | 17.87 | 17.65 | 19.50              |                    |
| 75                      |           | LOW       | Q16        | 18.17      | 18.16 | 17.64 | 19.50              |                    |
| 15                      |           | 1         | LOW        | 64QAM      | 18.51 | 18.19 | 17.72              | 19.50              |
|                         |           |           | MID        | 64QAM      | 18.46 | 17.86 | 17.87              | 19.50              |
|                         | HIGH      |           | 64QAM      | 18.06      | 17.83 | 17.79 | 19.50              |                    |
|                         | 36        | LOW       | 64QAM      | 17.99      | 17.73 | 17.69 | 19.50              |                    |
|                         |           | MID       | 64QAM      | 17.89      | 18.26 | 17.82 | 19.50              |                    |
|                         |           | HIGH      | 64QAM      | 18.11      | 17.88 | 17.50 | 19.50              |                    |
|                         | 75        | LOW       | 64QAM      | 17.76      | 18.33 | 17.60 | 19.50              |                    |
|                         | Bandwidth | RB Size   | RB offset  | Modulation | 39750 | 40620 | 41490              | Tune-up power(dBm) |
|                         | 20        | 1         | LOW        | QPSK       | 18.01 | 17.92 | 17.85              | 19.50              |
| MID                     |           |           | QPSK       | 18.05      | 18.06 | 17.93 | 19.50              |                    |
| HIGH                    |           |           | QPSK       | 17.89      | 17.93 | 17.75 | 19.50              |                    |
| 50                      |           | LOW       | QPSK       | 17.98      | 18.02 | 17.75 | 19.50              |                    |
|                         |           | MID       | QPSK       | 18.01      | 18.19 | 17.78 | 19.50              |                    |
|                         |           | HIGH      | QPSK       | 18.03      | 17.97 | 17.69 | 19.50              |                    |
| 100                     |           | LOW       | QPSK       | 18.08      | 18.08 | 17.74 | 19.50              |                    |
| 20                      |           | 1         | LOW        | Q16        | 18.37 | 18.05 | 17.80              | 19.50              |
|                         |           |           | MID        | Q16        | 18.48 | 18.00 | 17.79              | 19.50              |
|                         | HIGH      |           | Q16        | 18.23      | 17.86 | 17.72 | 19.50              |                    |
|                         | 50        | LOW       | Q16        | 18.06      | 17.92 | 17.82 | 19.50              |                    |
|                         |           | MID       | Q16        | 18.07      | 18.13 | 17.75 | 19.50              |                    |
|                         |           | HIGH      | Q16        | 18.03      | 17.86 | 17.72 | 19.50              |                    |
|                         | 100       | LOW       | Q16        | 18.05      | 18.09 | 17.73 | 19.50              |                    |
|                         | 20        | 1         | LOW        | 64QAM      | 18.36 | 18.09 | 17.81              | 19.50              |
|                         |           |           | MID        | 64QAM      | 18.56 | 17.88 | 17.86              | 19.50              |
| HIGH                    |           |           | 64QAM      | 18.08      | 17.88 | 17.66 | 19.50              |                    |
| 50                      |           | LOW       | 64QAM      | 18.06      | 17.78 | 17.80 | 19.50              |                    |
|                         |           | MID       | 64QAM      | 17.98      | 18.11 | 17.77 | 19.50              |                    |
|                         |           | HIGH      | 64QAM      | 18.11      | 17.77 | 17.62 | 19.50              |                    |
| 100                     |           | LOW       | 64QAM      | 17.90      | 18.19 | 17.59 | 19.50              |                    |

| LTE B41-State6 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-----------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth             | RB Size   | RB offset | Modulation | 39675      | 40620 | 41565 | Tune-up power(dBm) |                    |
| 5                     | 1         | LOW       | QPSK       | 15.19      | 15.10 | 15.27 | 16.50              |                    |
|                       |           | MID       | QPSK       | 15.21      | 15.20 | 15.36 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 15.21      | 15.25 | 15.15 | 16.50              |                    |
|                       | 12        | LOW       | QPSK       | 15.19      | 15.04 | 15.17 | 16.50              |                    |
|                       |           | MID       | QPSK       | 15.17      | 15.27 | 15.22 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 15.14      | 15.04 | 15.18 | 16.50              |                    |
|                       | 25        | LOW       | QPSK       | 15.18      | 15.10 | 15.32 | 16.50              |                    |
|                       | 5         | 1         | LOW        | Q16        | 15.37 | 15.52 | 15.33              | 16.50              |
|                       |           |           | MID        | Q16        | 15.40 | 15.32 | 15.33              | 16.50              |
| HIGH                  |           |           | Q16        | 15.39      | 15.25 | 15.24 | 16.50              |                    |
| 12                    |           | LOW       | Q16        | 15.23      | 15.19 | 15.16 | 16.50              |                    |
|                       |           | MID       | Q16        | 15.19      | 15.09 | 15.25 | 16.50              |                    |
|                       |           | HIGH      | Q16        | 15.17      | 15.17 | 15.17 | 16.50              |                    |
| 25                    |           | LOW       | Q16        | 15.19      | 15.24 | 15.11 | 16.50              |                    |
| 5                     |           | 1         | LOW        | 64QAM      | 15.52 | 15.66 | 15.36              | 16.50              |
|                       |           |           | MID        | 64QAM      | 15.37 | 15.40 | 15.40              | 16.50              |
|                       | HIGH      |           | 64QAM      | 15.27      | 15.11 | 15.09 | 16.50              |                    |
|                       | 12        | LOW       | 64QAM      | 15.09      | 15.30 | 15.08 | 16.50              |                    |
|                       |           | MID       | 64QAM      | 15.27      | 15.06 | 15.31 | 16.50              |                    |
|                       |           | HIGH      | 64QAM      | 15.29      | 15.32 | 15.25 | 16.50              |                    |
|                       | 25        | LOW       | 64QAM      | 15.30      | 15.35 | 15.14 | 16.50              |                    |
|                       | Bandwidth | RB Size   | RB offset  | Modulation | 39700 | 40620 | 41540              | Tune-up power(dBm) |
|                       | 10        | 1         | LOW        | QPSK       | 15.10 | 14.78 | 14.78              | 16.50              |
| MID                   |           |           | QPSK       | 15.18      | 15.00 | 14.81 | 16.50              |                    |
| HIGH                  |           |           | QPSK       | 14.90      | 14.95 | 14.61 | 16.50              |                    |
| 25                    |           | LOW       | QPSK       | 15.11      | 15.15 | 14.79 | 16.50              |                    |
|                       |           | MID       | QPSK       | 15.38      | 14.99 | 14.60 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 15.28      | 14.87 | 14.66 | 16.50              |                    |
| 50                    |           | LOW       | QPSK       | 15.08      | 15.10 | 14.73 | 16.50              |                    |
| 10                    |           | 1         | LOW        | Q16        | 15.35 | 15.02 | 15.20              | 16.50              |
|                       |           |           | MID        | Q16        | 15.62 | 15.21 | 15.26              | 16.50              |
|                       | HIGH      |           | Q16        | 15.35      | 15.14 | 14.93 | 16.50              |                    |
|                       | 25        | LOW       | Q16        | 15.17      | 15.01 | 14.84 | 16.50              |                    |
|                       |           | MID       | Q16        | 15.22      | 14.95 | 14.89 | 16.50              |                    |
|                       |           | HIGH      | Q16        | 15.28      | 14.95 | 14.66 | 16.50              |                    |
|                       | 50        | LOW       | Q16        | 15.30      | 15.08 | 14.64 | 16.50              |                    |
|                       | 10        | 1         | LOW        | 64QAM      | 15.30 | 15.22 | 15.21              | 16.50              |
|                       |           |           | MID        | 64QAM      | 15.64 | 15.24 | 15.24              | 16.50              |
| HIGH                  |           |           | 64QAM      | 15.55      | 14.99 | 14.94 | 16.50              |                    |
| 25                    |           | LOW       | 64QAM      | 15.18      | 15.23 | 14.71 | 16.50              |                    |
|                       |           | MID       | 64QAM      | 15.18      | 15.18 | 14.89 | 16.50              |                    |
|                       |           | HIGH      | 64QAM      | 15.33      | 15.11 | 14.61 | 16.50              |                    |
| 50                    |           | LOW       | 64QAM      | 15.03      | 14.85 | 14.75 | 16.50              |                    |

| LTE B41-State6 -Ant.4 |           |           |            |            |       |       |                    |                    |
|-----------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth             | RB Size   | RB offset | Modulation | 39725      | 40620 | 41515 | Tune-up power(dBm) |                    |
| 15                    | 1         | LOW       | QPSK       | 15.01      | 14.78 | 14.72 | 16.50              |                    |
|                       |           | MID       | QPSK       | 15.26      | 14.91 | 14.80 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 15.17      | 14.79 | 14.57 | 16.50              |                    |
|                       | 36        | LOW       | QPSK       | 15.11      | 15.07 | 14.90 | 16.50              |                    |
|                       |           | MID       | QPSK       | 15.40      | 15.02 | 14.80 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 15.29      | 14.83 | 14.73 | 16.50              |                    |
|                       | 75        | LOW       | QPSK       | 15.32      | 15.14 | 14.77 | 16.50              |                    |
|                       | 15        | 1         | LOW        | Q16        | 15.32 | 15.21 | 15.11              | 16.50              |
|                       |           |           | MID        | Q16        | 15.45 | 15.39 | 15.11              | 16.50              |
| HIGH                  |           |           | Q16        | 15.34      | 15.01 | 14.82 | 16.50              |                    |
| 36                    |           | LOW       | Q16        | 15.10      | 15.08 | 14.64 | 16.50              |                    |
|                       |           | MID       | Q16        | 15.14      | 15.09 | 14.67 | 16.50              |                    |
|                       |           | HIGH      | Q16        | 15.28      | 15.14 | 14.72 | 16.50              |                    |
| 75                    |           | LOW       | Q16        | 15.15      | 15.09 | 14.80 | 16.50              |                    |
| 15                    |           | 1         | LOW        | 64QAM      | 15.38 | 15.15 | 14.94              | 16.50              |
|                       |           |           | MID        | 64QAM      | 15.46 | 15.31 | 15.23              | 16.50              |
|                       | HIGH      |           | 64QAM      | 15.30      | 14.98 | 14.73 | 16.50              |                    |
|                       | 36        | LOW       | 64QAM      | 15.17      | 15.15 | 14.75 | 16.50              |                    |
|                       |           | MID       | 64QAM      | 15.47      | 15.19 | 14.77 | 16.50              |                    |
|                       |           | HIGH      | 64QAM      | 15.23      | 15.19 | 14.87 | 16.50              |                    |
|                       | 75        | LOW       | 64QAM      | 14.98      | 14.98 | 14.89 | 16.50              |                    |
|                       | Bandwidth | RB Size   | RB offset  | Modulation | 39750 | 40620 | 41490              | Tune-up power(dBm) |
|                       | 20        | 1         | LOW        | QPSK       | 15.13 | 14.93 | 14.81              | 16.50              |
| MID                   |           |           | QPSK       | 15.02      | 15.23 | 14.89 | 16.50              |                    |
| HIGH                  |           |           | QPSK       | 15.03      | 14.92 | 14.68 | 16.50              |                    |
| 50                    |           | LOW       | QPSK       | 15.26      | 15.27 | 14.78 | 16.50              |                    |
|                       |           | MID       | QPSK       | 15.05      | 15.04 | 14.71 | 16.50              |                    |
|                       |           | HIGH      | QPSK       | 15.17      | 14.96 | 14.65 | 16.50              |                    |
| 100                   |           | LOW       | QPSK       | 15.17      | 14.99 | 14.71 | 16.50              |                    |
| 20                    |           | 1         | LOW        | Q16        | 15.47 | 15.14 | 15.09              | 16.50              |
|                       |           |           | MID        | Q16        | 15.56 | 15.25 | 15.12              | 16.50              |
|                       | HIGH      |           | Q16        | 15.37      | 15.13 | 14.95 | 16.50              |                    |
|                       | 50        | LOW       | Q16        | 15.18      | 15.07 | 14.76 | 16.50              |                    |
|                       |           | MID       | Q16        | 15.23      | 15.00 | 14.79 | 16.50              |                    |
|                       |           | HIGH      | Q16        | 15.15      | 15.02 | 14.67 | 16.50              |                    |
|                       | 100       | LOW       | Q16        | 15.15      | 14.98 | 14.70 | 16.50              |                    |
|                       | 20        | 1         | LOW        | 64QAM      | 15.37 | 15.16 | 15.06              | 16.50              |
|                       |           |           | MID        | 64QAM      | 15.57 | 15.20 | 15.12              | 16.50              |
| HIGH                  |           |           | 64QAM      | 15.45      | 15.12 | 14.81 | 16.50              |                    |
| 50                    |           | LOW       | 64QAM      | 15.32      | 15.22 | 14.82 | 16.50              |                    |
|                       |           | MID       | 64QAM      | 15.33      | 15.12 | 14.83 | 16.50              |                    |
|                       |           | HIGH      | 64QAM      | 15.29      | 15.15 | 14.74 | 16.50              |                    |
| 100                   |           | LOW       | 64QAM      | 15.06      | 14.91 | 14.60 | 16.50              |                    |

## 8.3.11 LTE Band41 Output Power

| LTE B41-Full Power -Ant.3 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 39675      | 40620 | 41565 | Tune-up power(dBm) |                    |
| 5                         | 1         | LOW       | QPSK       | 23.80      | 23.59 | 23.97 | 24.50              |                    |
|                           |           | MID       | QPSK       | 23.83      | 23.56 | 23.94 | 24.50              |                    |
|                           |           | HIGH      | QPSK       | 23.82      | 23.58 | 23.99 | 24.50              |                    |
|                           | 12        | LOW       | QPSK       | 22.74      | 22.58 | 22.90 | 23.50              |                    |
|                           |           | MID       | QPSK       | 22.74      | 22.53 | 22.90 | 23.50              |                    |
|                           |           | HIGH      | QPSK       | 22.78      | 22.45 | 22.89 | 23.50              |                    |
|                           | 25        | LOW       | QPSK       | 22.76      | 22.52 | 22.91 | 23.50              |                    |
|                           | 5         | 1         | LOW        | Q16        | 22.94 | 22.88 | 23.33              | 23.50              |
|                           |           |           | MID        | Q16        | 22.98 | 22.92 | 23.35              | 23.50              |
| HIGH                      |           |           | Q16        | 22.99      | 22.85 | 23.35 | 23.50              |                    |
| 12                        |           | LOW       | Q16        | 21.81      | 21.52 | 22.00 | 22.50              |                    |
|                           |           | MID       | Q16        | 21.78      | 21.48 | 21.97 | 22.50              |                    |
|                           |           | HIGH      | Q16        | 21.79      | 21.44 | 21.97 | 22.50              |                    |
| 25                        |           | LOW       | Q16        | 21.76      | 21.54 | 21.90 | 22.50              |                    |
| 5                         |           | 1         | LOW        | 64QAM      | 21.93 | 21.99 | 22.48              | 22.50              |
|                           |           |           | MID        | 64QAM      | 22.06 | 22.01 | 22.46              | 22.50              |
|                           | HIGH      |           | 64QAM      | 21.86      | 21.78 | 22.24 | 22.50              |                    |
|                           | 12        | LOW       | 64QAM      | 20.84      | 20.51 | 20.92 | 21.50              |                    |
|                           |           | MID       | 64QAM      | 20.66      | 20.40 | 21.05 | 21.50              |                    |
|                           |           | HIGH      | 64QAM      | 20.65      | 20.50 | 20.92 | 21.50              |                    |
|                           | 25        | LOW       | 64QAM      | 20.80      | 20.63 | 21.02 | 21.50              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 39700 | 40620 | 41540              | Tune-up power(dBm) |
|                           | 10        | 1         | LOW        | QPSK       | 23.53 | 23.27 | 23.98              | 24.50              |
| MID                       |           |           | QPSK       | 23.80      | 23.66 | 24.05 | 24.50              |                    |
| HIGH                      |           |           | QPSK       | 23.78      | 23.62 | 23.99 | 24.50              |                    |
| 25                        |           | LOW       | QPSK       | 22.84      | 22.57 | 22.97 | 23.50              |                    |
|                           |           | MID       | QPSK       | 22.92      | 22.43 | 22.99 | 23.50              |                    |
|                           |           | HIGH      | QPSK       | 22.66      | 22.65 | 22.93 | 23.50              |                    |
| 50                        |           | LOW       | QPSK       | 22.82      | 22.54 | 22.79 | 23.50              |                    |
| 10                        |           | 1         | LOW        | Q16        | 22.97 | 22.76 | 23.12              | 23.50              |
|                           |           |           | MID        | Q16        | 23.26 | 22.77 | 23.42              | 23.50              |
|                           | HIGH      |           | Q16        | 22.85      | 22.75 | 23.31 | 23.50              |                    |
|                           | 25        | LOW       | Q16        | 21.61      | 21.55 | 21.79 | 22.50              |                    |
|                           |           | MID       | Q16        | 21.74      | 21.48 | 21.93 | 22.50              |                    |
|                           |           | HIGH      | Q16        | 21.69      | 21.69 | 21.80 | 22.50              |                    |
|                           | 50        | LOW       | Q16        | 21.59      | 21.39 | 21.82 | 22.50              |                    |
|                           | 10        | 1         | LOW        | 64QAM      | 21.89 | 21.68 | 22.07              | 22.50              |
|                           |           |           | MID        | 64QAM      | 22.23 | 21.89 | 22.00              | 22.50              |
| HIGH                      |           |           | 64QAM      | 22.05      | 21.93 | 22.26 | 22.50              |                    |
| 25                        |           | LOW       | 64QAM      | 20.55      | 20.47 | 20.69 | 21.50              |                    |
|                           |           | MID       | 64QAM      | 20.74      | 20.52 | 20.99 | 21.50              |                    |
|                           |           | HIGH      | 64QAM      | 20.60      | 20.76 | 21.12 | 21.50              |                    |
| 50                        |           | LOW       | 64QAM      | 20.83      | 20.61 | 20.63 | 21.50              |                    |



| LTE B41-Full Power -Ant.3 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 39725      | 40620 | 41515 | Tune-up power(dBm) |                    |
| 15                        | 1         | LOW       | QPSK       | 23.54      | 23.35 | 23.76 | 24.50              |                    |
|                           |           | MID       | QPSK       | 23.72      | 23.70 | 24.07 | 24.50              |                    |
|                           |           | HIGH      | QPSK       | 23.69      | 23.53 | 23.92 | 24.50              |                    |
|                           | 36        | LOW       | QPSK       | 22.85      | 22.71 | 22.74 | 23.50              |                    |
|                           |           | MID       | QPSK       | 22.79      | 22.53 | 22.85 | 23.50              |                    |
|                           |           | HIGH      | QPSK       | 22.68      | 22.45 | 22.88 | 23.50              |                    |
|                           | 75        | LOW       | QPSK       | 22.59      | 22.52 | 22.91 | 23.50              |                    |
|                           | 15        | 1         | LOW        | Q16        | 23.08 | 22.75 | 23.05              | 23.50              |
|                           |           |           | MID        | Q16        | 23.20 | 22.93 | 23.37              | 23.50              |
| HIGH                      |           |           | Q16        | 23.08      | 22.70 | 23.29 | 23.50              |                    |
| 36                        |           | LOW       | Q16        | 21.60      | 21.62 | 21.85 | 22.50              |                    |
|                           |           | MID       | Q16        | 21.85      | 21.56 | 22.03 | 22.50              |                    |
|                           |           | HIGH      | Q16        | 21.87      | 21.44 | 22.00 | 22.50              |                    |
| 75                        |           | LOW       | Q16        | 21.54      | 21.51 | 21.85 | 22.50              |                    |
| 15                        |           | 1         | LOW        | 64QAM      | 22.16 | 21.59 | 22.20              | 22.50              |
|                           |           |           | MID        | 64QAM      | 22.23 | 21.74 | 22.23              | 22.50              |
|                           | HIGH      |           | 64QAM      | 22.07      | 21.85 | 22.21 | 22.50              |                    |
|                           | 36        | LOW       | 64QAM      | 20.61      | 20.54 | 20.72 | 21.50              |                    |
|                           |           | MID       | 64QAM      | 21.01      | 20.48 | 20.84 | 21.50              |                    |
|                           |           | HIGH      | 64QAM      | 20.59      | 20.49 | 20.90 | 21.50              |                    |
|                           | 75        | LOW       | 64QAM      | 20.55      | 20.37 | 20.66 | 21.50              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 39750 | 40620 | 41490              | Tune-up power(dBm) |
|                           | 20        | 1         | LOW        | QPSK       | 23.64 | 24.02 | 23.85              | 24.50              |
| MID                       |           |           | QPSK       | 23.81      | 23.79 | 23.64 | 24.50              |                    |
| HIGH                      |           |           | QPSK       | 23.67      | 23.70 | 23.95 | 24.50              |                    |
| 50                        |           | LOW       | QPSK       | 22.70      | 22.88 | 22.85 | 23.50              |                    |
|                           |           | MID       | QPSK       | 22.81      | 22.54 | 22.56 | 23.50              |                    |
|                           |           | HIGH      | QPSK       | 22.72      | 22.57 | 22.84 | 23.50              |                    |
| 100                       |           | LOW       | QPSK       | 22.70      | 22.54 | 22.81 | 23.50              |                    |
| 20                        |           | 1         | LOW        | Q16        | 22.98 | 22.62 | 23.16              | 23.50              |
|                           |           |           | MID        | Q16        | 23.15 | 22.83 | 23.35              | 23.50              |
|                           | HIGH      |           | Q16        | 22.97      | 22.72 | 23.26 | 23.50              |                    |
|                           | 50        | LOW       | Q16        | 21.71      | 21.52 | 21.81 | 22.50              |                    |
|                           |           | MID       | Q16        | 21.75      | 21.56 | 21.88 | 22.50              |                    |
|                           |           | HIGH      | Q16        | 21.72      | 21.54 | 21.87 | 22.50              |                    |
|                           | 100       | LOW       | Q16        | 21.68      | 21.50 | 21.79 | 22.50              |                    |
|                           | 20        | 1         | LOW        | 64QAM      | 22.03 | 21.53 | 22.07              | 22.50              |
|                           |           |           | MID        | 64QAM      | 22.13 | 21.89 | 22.47              | 22.50              |
| HIGH                      |           |           | 64QAM      | 22.04      | 21.84 | 22.17 | 22.50              |                    |
| 50                        |           | LOW       | 64QAM      | 20.70      | 20.58 | 20.81 | 21.50              |                    |
|                           |           | MID       | 64QAM      | 20.86      | 20.50 | 20.95 | 21.50              |                    |
|                           |           | HIGH      | 64QAM      | 20.68      | 20.61 | 21.02 | 21.50              |                    |
| 100                       |           | LOW       | 64QAM      | 20.68      | 20.48 | 20.64 | 21.50              |                    |

| LTE B41-State1&3 -Ant.3 |           |           |            |            |       |       |                    |                    |
|-------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth               | RB Size   | RB offset | Modulation | 39675      | 40620 | 41565 | Tune-up power(dBm) |                    |
| 5                       | 1         | LOW       | QPSK       | 20.05      | 19.94 | 20.35 | 21.00              |                    |
|                         |           | MID       | QPSK       | 20.06      | 19.79 | 20.35 | 21.00              |                    |
|                         |           | HIGH      | QPSK       | 20.07      | 19.79 | 20.36 | 21.00              |                    |
|                         | 12        | LOW       | QPSK       | 20.05      | 19.78 | 20.33 | 21.00              |                    |
|                         |           | MID       | QPSK       | 20.08      | 19.75 | 20.30 | 21.00              |                    |
|                         |           | HIGH      | QPSK       | 20.06      | 19.70 | 20.27 | 21.00              |                    |
|                         | 25        | LOW       | QPSK       | 20.05      | 19.78 | 20.31 | 21.00              |                    |
|                         | 5         | 1         | LOW        | Q16        | 20.26 | 20.11 | 20.77              | 21.00              |
|                         |           |           | MID        | Q16        | 20.30 | 20.15 | 20.77              | 21.00              |
| HIGH                    |           |           | Q16        | 20.28      | 20.08 | 20.78 | 21.00              |                    |
| 12                      |           | LOW       | Q16        | 20.12      | 19.78 | 20.43 | 21.00              |                    |
|                         |           | MID       | Q16        | 20.10      | 19.71 | 20.44 | 21.00              |                    |
|                         |           | HIGH      | Q16        | 20.06      | 19.70 | 20.39 | 21.00              |                    |
| 25                      |           | LOW       | Q16        | 20.09      | 19.78 | 20.32 | 21.00              |                    |
| 5                       |           | 1         | LOW        | 64QAM      | 20.14 | 20.15 | 20.87              | 21.00              |
|                         |           |           | MID        | 64QAM      | 20.25 | 20.03 | 20.83              | 21.00              |
|                         | HIGH      |           | 64QAM      | 20.37      | 20.22 | 20.64 | 21.00              |                    |
|                         | 12        | LOW       | 64QAM      | 19.99      | 19.86 | 20.37 | 21.00              |                    |
|                         |           | MID       | 64QAM      | 20.11      | 19.68 | 20.34 | 21.00              |                    |
|                         |           | HIGH      | 64QAM      | 20.17      | 19.75 | 20.44 | 21.00              |                    |
|                         | 25        | LOW       | 64QAM      | 20.14      | 19.69 | 20.45 | 21.00              |                    |
|                         | Bandwidth | RB Size   | RB offset  | Modulation | 39700 | 40620 | 41540              | Tune-up power(dBm) |
|                         | 10        | 1         | LOW        | QPSK       | 19.85 | 19.43 | 20.12              | 21.00              |
| MID                     |           |           | QPSK       | 20.08      | 19.86 | 20.46 | 21.00              |                    |
| HIGH                    |           |           | QPSK       | 19.93      | 19.75 | 20.35 | 21.00              |                    |
| 25                      |           | LOW       | QPSK       | 19.98      | 20.03 | 20.21 | 21.00              |                    |
|                         |           | MID       | QPSK       | 20.02      | 19.82 | 20.38 | 21.00              |                    |
|                         |           | HIGH      | QPSK       | 20.08      | 19.68 | 20.16 | 21.00              |                    |
| 50                      |           | LOW       | QPSK       | 20.09      | 19.73 | 20.38 | 21.00              |                    |
| 10                      |           | 1         | LOW        | Q16        | 20.24 | 19.79 | 20.47              | 21.00              |
|                         |           |           | MID        | Q16        | 20.50 | 20.15 | 20.64              | 21.00              |
|                         | HIGH      |           | Q16        | 20.20      | 19.99 | 20.79 | 21.00              |                    |
|                         | 25        | LOW       | Q16        | 19.85      | 19.78 | 20.36 | 21.00              |                    |
|                         |           | MID       | Q16        | 20.12      | 19.80 | 20.24 | 21.00              |                    |
|                         |           | HIGH      | Q16        | 19.96      | 19.61 | 20.39 | 21.00              |                    |
|                         | 50        | LOW       | Q16        | 20.15      | 19.89 | 20.20 | 21.00              |                    |
|                         | 10        | 1         | LOW        | 64QAM      | 20.27 | 19.86 | 20.24              | 21.00              |
|                         |           |           | MID        | 64QAM      | 20.27 | 20.00 | 20.46              | 21.00              |
| HIGH                    |           |           | 64QAM      | 20.21      | 20.05 | 20.58 | 21.00              |                    |
| 25                      |           | LOW       | 64QAM      | 19.93      | 19.94 | 20.37 | 21.00              |                    |
|                         |           | MID       | 64QAM      | 19.88      | 19.74 | 20.31 | 21.00              |                    |
|                         |           | HIGH      | 64QAM      | 20.08      | 19.85 | 20.42 | 21.00              |                    |
| 50                      |           | LOW       | 64QAM      | 19.98      | 19.66 | 19.99 | 21.00              |                    |

| LTE B41-State1&3 -Ant.3 |           |           |            |            |       |       |                    |                    |
|-------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth               | RB Size   | RB offset | Modulation | 39725      | 40620 | 41515 | Tune-up power(dBm) |                    |
| 15                      | 1         | LOW       | QPSK       | 19.78      | 19.53 | 19.97 | 21.00              |                    |
|                         |           | MID       | QPSK       | 20.05      | 19.94 | 20.55 | 21.00              |                    |
|                         |           | HIGH      | QPSK       | 19.91      | 19.64 | 20.49 | 21.00              |                    |
|                         | 36        | LOW       | QPSK       | 20.12      | 19.96 | 20.22 | 21.00              |                    |
|                         |           | MID       | QPSK       | 19.99      | 19.66 | 20.16 | 21.00              |                    |
|                         |           | HIGH      | QPSK       | 20.00      | 19.75 | 20.12 | 21.00              |                    |
|                         | 75        | LOW       | QPSK       | 19.96      | 19.86 | 20.38 | 21.00              |                    |
|                         | 15        | 1         | LOW        | Q16        | 20.14 | 19.72 | 20.34              | 21.00              |
|                         |           |           | MID        | Q16        | 20.44 | 20.23 | 20.62              | 21.00              |
| HIGH                    |           |           | Q16        | 20.17      | 19.80 | 20.59 | 21.00              |                    |
| 36                      |           | LOW       | Q16        | 20.04      | 19.88 | 20.30 | 21.00              |                    |
|                         |           | MID       | Q16        | 20.21      | 19.86 | 20.33 | 21.00              |                    |
|                         |           | HIGH      | Q16        | 20.11      | 19.67 | 20.40 | 21.00              |                    |
| 75                      |           | LOW       | Q16        | 20.12      | 19.91 | 20.17 | 21.00              |                    |
| 15                      |           | 1         | LOW        | 64QAM      | 20.31 | 19.80 | 20.38              | 21.00              |
|                         |           |           | MID        | 64QAM      | 20.41 | 19.84 | 20.51              | 21.00              |
|                         | HIGH      |           | 64QAM      | 20.14      | 20.00 | 20.71 | 21.00              |                    |
|                         | 36        | LOW       | 64QAM      | 20.06      | 19.81 | 20.14 | 21.00              |                    |
|                         |           | MID       | 64QAM      | 19.88      | 20.03 | 20.32 | 21.00              |                    |
|                         |           | HIGH      | 64QAM      | 20.19      | 19.80 | 20.54 | 21.00              |                    |
|                         | 75        | LOW       | 64QAM      | 20.04      | 19.83 | 20.20 | 21.00              |                    |
|                         | Bandwidth | RB Size   | RB offset  | Modulation | 39750 | 40620 | 41490              | Tune-up power(dBm) |
|                         | 20        | 1         | LOW        | QPSK       | 19.92 | 20.14 | 20.10              | 21.00              |
| MID                     |           |           | QPSK       | 20.10      | 19.84 | 19.76 | 21.00              |                    |
| HIGH                    |           |           | QPSK       | 19.94      | 19.73 | 20.09 | 21.00              |                    |
| 50                      |           | LOW       | QPSK       | 20.06      | 20.22 | 20.19 | 21.00              |                    |
|                         |           | MID       | QPSK       | 20.04      | 19.94 | 19.95 | 21.00              |                    |
|                         |           | HIGH      | QPSK       | 20.07      | 19.83 | 20.09 | 21.00              |                    |
| 100                     |           | LOW       | QPSK       | 19.99      | 19.88 | 20.24 | 21.00              |                    |
| 20                      |           | 1         | LOW        | Q16        | 20.27 | 19.86 | 20.35              | 21.00              |
|                         |           |           | MID        | Q16        | 20.45 | 20.08 | 20.67              | 21.00              |
|                         | HIGH      |           | Q16        | 20.29      | 19.95 | 20.67 | 21.00              |                    |
|                         | 50        | LOW       | Q16        | 19.97      | 19.78 | 20.28 | 21.00              |                    |
|                         |           | MID       | Q16        | 20.08      | 19.79 | 20.30 | 21.00              |                    |
|                         |           | HIGH      | Q16        | 20.03      | 19.76 | 20.30 | 21.00              |                    |
|                         | 100       | LOW       | Q16        | 20.00      | 19.77 | 20.25 | 21.00              |                    |
|                         | 20        | 1         | LOW        | 64QAM      | 20.16 | 19.88 | 20.39              | 21.00              |
|                         |           |           | MID        | 64QAM      | 20.41 | 19.97 | 20.61              | 21.00              |
| HIGH                    |           |           | 64QAM      | 20.21      | 19.96 | 20.58 | 21.00              |                    |
| 50                      |           | LOW       | 64QAM      | 20.08      | 19.93 | 20.28 | 21.00              |                    |
|                         |           | MID       | 64QAM      | 19.94      | 19.88 | 20.22 | 21.00              |                    |
|                         |           | HIGH      | 64QAM      | 20.05      | 19.91 | 20.39 | 21.00              |                    |
| 100                     |           | LOW       | 64QAM      | 20.13      | 19.77 | 20.12 | 21.00              |                    |

| LTE B41-State2&4&6 -Ant.3 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 39675      | 40620 | 41565 | Tune-up power(dBm) |                    |
| 5                         | 1         | LOW       | QPSK       | 23.80      | 23.59 | 23.97 | 24.50              |                    |
|                           |           | MID       | QPSK       | 23.83      | 23.56 | 23.94 | 24.50              |                    |
|                           |           | HIGH      | QPSK       | 23.82      | 23.58 | 23.99 | 24.50              |                    |
|                           | 12        | LOW       | QPSK       | 22.74      | 22.58 | 22.90 | 23.50              |                    |
|                           |           | MID       | QPSK       | 22.74      | 22.53 | 22.90 | 23.50              |                    |
|                           |           | HIGH      | QPSK       | 22.78      | 22.45 | 22.89 | 23.50              |                    |
|                           | 25        | LOW       | QPSK       | 22.76      | 22.52 | 22.91 | 23.50              |                    |
|                           | 5         | 1         | LOW        | Q16        | 22.94 | 22.88 | 23.33              | 23.50              |
|                           |           |           | MID        | Q16        | 22.98 | 22.92 | 23.35              | 23.50              |
| HIGH                      |           |           | Q16        | 22.99      | 22.85 | 23.35 | 23.50              |                    |
| 12                        |           | LOW       | Q16        | 21.81      | 21.52 | 22.00 | 22.50              |                    |
|                           |           | MID       | Q16        | 21.78      | 21.48 | 21.97 | 22.50              |                    |
|                           |           | HIGH      | Q16        | 21.79      | 21.44 | 21.97 | 22.50              |                    |
| 25                        |           | LOW       | Q16        | 21.76      | 21.54 | 21.90 | 22.50              |                    |
| 5                         |           | 1         | LOW        | 64QAM      | 21.93 | 21.99 | 22.48              | 22.50              |
|                           |           |           | MID        | 64QAM      | 22.06 | 22.01 | 22.46              | 22.50              |
|                           | HIGH      |           | 64QAM      | 21.86      | 21.78 | 22.24 | 22.50              |                    |
|                           | 12        | LOW       | 64QAM      | 20.84      | 20.51 | 20.92 | 21.50              |                    |
|                           |           | MID       | 64QAM      | 20.66      | 20.40 | 21.05 | 21.50              |                    |
|                           |           | HIGH      | 64QAM      | 20.65      | 20.50 | 20.92 | 21.50              |                    |
|                           | 25        | LOW       | 64QAM      | 20.80      | 20.63 | 21.02 | 21.50              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 39700 | 40620 | 41540              | Tune-up power(dBm) |
|                           | 10        | 1         | LOW        | QPSK       | 23.53 | 23.27 | 23.98              | 24.50              |
| MID                       |           |           | QPSK       | 23.80      | 23.66 | 24.05 | 24.50              |                    |
| HIGH                      |           |           | QPSK       | 23.78      | 23.62 | 23.99 | 24.50              |                    |
| 25                        |           | LOW       | QPSK       | 22.84      | 22.57 | 22.97 | 23.50              |                    |
|                           |           | MID       | QPSK       | 22.92      | 22.43 | 22.99 | 23.50              |                    |
|                           |           | HIGH      | QPSK       | 22.66      | 22.65 | 22.93 | 23.50              |                    |
| 50                        |           | LOW       | QPSK       | 22.82      | 22.54 | 22.79 | 23.50              |                    |
| 10                        |           | 1         | LOW        | Q16        | 22.97 | 22.76 | 23.12              | 23.50              |
|                           |           |           | MID        | Q16        | 23.26 | 22.77 | 23.42              | 23.50              |
|                           | HIGH      |           | Q16        | 22.85      | 22.75 | 23.31 | 23.50              |                    |
|                           | 25        | LOW       | Q16        | 21.61      | 21.55 | 21.79 | 22.50              |                    |
|                           |           | MID       | Q16        | 21.74      | 21.48 | 21.93 | 22.50              |                    |
|                           |           | HIGH      | Q16        | 21.69      | 21.69 | 21.80 | 22.50              |                    |
|                           | 50        | LOW       | Q16        | 21.59      | 21.39 | 21.82 | 22.50              |                    |
|                           | 10        | 1         | LOW        | 64QAM      | 21.89 | 21.68 | 22.07              | 22.50              |
|                           |           |           | MID        | 64QAM      | 22.23 | 21.89 | 22.00              | 22.50              |
| HIGH                      |           |           | 64QAM      | 22.05      | 21.93 | 22.26 | 22.50              |                    |
| 25                        |           | LOW       | 64QAM      | 20.55      | 20.47 | 20.69 | 21.50              |                    |
|                           |           | MID       | 64QAM      | 20.74      | 20.52 | 20.99 | 21.50              |                    |
|                           |           | HIGH      | 64QAM      | 20.60      | 20.76 | 21.12 | 21.50              |                    |
| 50                        |           | LOW       | 64QAM      | 20.83      | 20.61 | 20.63 | 21.50              |                    |

| LTE B41-State2&4&6 -Ant.3 |           |           |            |            |       |       |                    |                    |
|---------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                 | RB Size   | RB offset | Modulation | 39725      | 40620 | 41515 | Tune-up power(dBm) |                    |
| 15                        | 1         | LOW       | QPSK       | 23.54      | 23.35 | 23.76 | 24.50              |                    |
|                           |           | MID       | QPSK       | 23.72      | 23.70 | 24.07 | 24.50              |                    |
|                           |           | HIGH      | QPSK       | 23.69      | 23.53 | 23.92 | 24.50              |                    |
|                           | 36        | LOW       | QPSK       | 22.85      | 22.71 | 22.74 | 23.50              |                    |
|                           |           | MID       | QPSK       | 22.79      | 22.53 | 22.85 | 23.50              |                    |
|                           |           | HIGH      | QPSK       | 22.68      | 22.45 | 22.88 | 23.50              |                    |
|                           | 75        | LOW       | QPSK       | 22.59      | 22.52 | 22.91 | 23.50              |                    |
|                           | 15        | 1         | LOW        | Q16        | 23.08 | 22.75 | 23.05              | 23.50              |
|                           |           |           | MID        | Q16        | 23.20 | 22.93 | 23.37              | 23.50              |
| HIGH                      |           |           | Q16        | 23.08      | 22.70 | 23.29 | 23.50              |                    |
| 36                        |           | LOW       | Q16        | 21.60      | 21.62 | 21.85 | 22.50              |                    |
|                           |           | MID       | Q16        | 21.85      | 21.56 | 22.03 | 22.50              |                    |
|                           |           | HIGH      | Q16        | 21.87      | 21.44 | 22.00 | 22.50              |                    |
| 75                        |           | LOW       | Q16        | 21.54      | 21.51 | 21.85 | 22.50              |                    |
| 15                        |           | 1         | LOW        | 64QAM      | 22.16 | 21.59 | 22.20              | 22.50              |
|                           |           |           | MID        | 64QAM      | 22.23 | 21.74 | 22.23              | 22.50              |
|                           | HIGH      |           | 64QAM      | 22.07      | 21.85 | 22.21 | 22.50              |                    |
|                           | 36        | LOW       | 64QAM      | 20.61      | 20.54 | 20.72 | 21.50              |                    |
|                           |           | MID       | 64QAM      | 21.01      | 20.48 | 20.84 | 21.50              |                    |
|                           |           | HIGH      | 64QAM      | 20.59      | 20.49 | 20.90 | 21.50              |                    |
|                           | 75        | LOW       | 64QAM      | 20.55      | 20.37 | 20.66 | 21.50              |                    |
|                           | Bandwidth | RB Size   | RB offset  | Modulation | 39750 | 40620 | 41490              | Tune-up power(dBm) |
|                           | 20        | 1         | LOW        | QPSK       | 23.64 | 24.02 | 23.85              | 24.50              |
| MID                       |           |           | QPSK       | 23.81      | 23.79 | 23.64 | 24.50              |                    |
| HIGH                      |           |           | QPSK       | 23.67      | 23.70 | 23.95 | 24.50              |                    |
| 50                        |           | LOW       | QPSK       | 22.70      | 22.88 | 22.85 | 23.50              |                    |
|                           |           | MID       | QPSK       | 22.81      | 22.54 | 22.56 | 23.50              |                    |
|                           |           | HIGH      | QPSK       | 22.72      | 22.57 | 22.84 | 23.50              |                    |
| 100                       |           | LOW       | QPSK       | 22.70      | 22.54 | 22.81 | 23.50              |                    |
| 20                        |           | 1         | LOW        | Q16        | 22.98 | 22.62 | 23.16              | 23.50              |
|                           |           |           | MID        | Q16        | 23.15 | 22.83 | 23.35              | 23.50              |
|                           | HIGH      |           | Q16        | 22.97      | 22.72 | 23.26 | 23.50              |                    |
|                           | 50        | LOW       | Q16        | 21.71      | 21.52 | 21.81 | 22.50              |                    |
|                           |           | MID       | Q16        | 21.75      | 21.56 | 21.88 | 22.50              |                    |
|                           |           | HIGH      | Q16        | 21.72      | 21.54 | 21.87 | 22.50              |                    |
|                           | 100       | LOW       | Q16        | 21.68      | 21.50 | 21.79 | 22.50              |                    |
|                           | 20        | 1         | LOW        | 64QAM      | 22.03 | 21.53 | 22.07              | 22.50              |
|                           |           |           | MID        | 64QAM      | 22.13 | 21.89 | 22.47              | 22.50              |
| HIGH                      |           |           | 64QAM      | 22.04      | 21.84 | 22.17 | 22.50              |                    |
| 50                        |           | LOW       | 64QAM      | 20.70      | 20.58 | 20.81 | 21.50              |                    |
|                           |           | MID       | 64QAM      | 20.86      | 20.50 | 20.95 | 21.50              |                    |
|                           |           | HIGH      | 64QAM      | 20.68      | 20.61 | 21.02 | 21.50              |                    |
| 100                       |           | LOW       | 64QAM      | 20.68      | 20.48 | 20.64 | 21.50              |                    |

| LTE B41-State5 -Ant.3 |           |           |            |            |       |       |                    |                    |
|-----------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth             | RB Size   | RB offset | Modulation | 39675      | 40620 | 41565 | Tune-up power(dBm) |                    |
| 5                     | 1         | LOW       | QPSK       | 18.51      | 18.37 | 18.81 | 19.50              |                    |
|                       |           | MID       | QPSK       | 18.57      | 18.39 | 18.74 | 19.50              |                    |
|                       |           | HIGH      | QPSK       | 18.52      | 18.38 | 18.81 | 19.50              |                    |
|                       | 12        | LOW       | QPSK       | 18.53      | 18.41 | 18.75 | 19.50              |                    |
|                       |           | MID       | QPSK       | 18.51      | 18.34 | 18.76 | 19.50              |                    |
|                       |           | HIGH      | QPSK       | 18.53      | 18.33 | 18.74 | 19.50              |                    |
|                       | 25        | LOW       | QPSK       | 18.51      | 18.33 | 18.79 | 19.50              |                    |
|                       | 5         | 1         | LOW        | Q16        | 18.91 | 18.59 | 19.17              | 19.50              |
|                       |           |           | MID        | Q16        | 18.93 | 18.58 | 19.13              | 19.50              |
| HIGH                  |           |           | Q16        | 18.91      | 18.56 | 19.15 | 19.50              |                    |
| 12                    |           | LOW       | Q16        | 18.65      | 18.43 | 18.78 | 19.50              |                    |
|                       |           | MID       | Q16        | 18.61      | 18.36 | 18.75 | 19.50              |                    |
|                       |           | HIGH      | Q16        | 18.61      | 18.34 | 18.74 | 19.50              |                    |
| 25                    |           | LOW       | Q16        | 18.56      | 18.37 | 18.82 | 19.50              |                    |
| 5                     |           | 1         | LOW        | 64QAM      | 19.01 | 18.45 | 19.17              | 19.50              |
|                       |           |           | MID        | 64QAM      | 19.02 | 18.57 | 19.25              | 19.50              |
|                       | HIGH      |           | 64QAM      | 18.96      | 18.65 | 19.26 | 19.50              |                    |
|                       | 12        | LOW       | 64QAM      | 18.80      | 18.37 | 18.79 | 19.50              |                    |
|                       |           | MID       | 64QAM      | 18.46      | 18.43 | 18.87 | 19.50              |                    |
|                       |           | HIGH      | 64QAM      | 18.57      | 18.41 | 18.65 | 19.50              |                    |
|                       | 25        | LOW       | 64QAM      | 18.53      | 18.23 | 18.88 | 19.50              |                    |
|                       | Bandwidth | RB Size   | RB offset  | Modulation | 39700 | 40620 | 41540              | Tune-up power(dBm) |
|                       | 10        | 1         | LOW        | QPSK       | 18.37 | 18.20 | 18.70              | 19.50              |
| MID                   |           |           | QPSK       | 18.61      | 18.48 | 18.80 | 19.50              |                    |
| HIGH                  |           |           | QPSK       | 18.28      | 18.33 | 18.87 | 19.50              |                    |
| 25                    |           | LOW       | QPSK       | 18.42      | 18.46 | 18.66 | 19.50              |                    |
|                       |           | MID       | QPSK       | 18.68      | 18.45 | 18.83 | 19.50              |                    |
|                       |           | HIGH      | QPSK       | 18.40      | 18.35 | 18.62 | 19.50              |                    |
| 50                    |           | LOW       | QPSK       | 18.57      | 18.49 | 18.75 | 19.50              |                    |
| 10                    |           | 1         | LOW        | Q16        | 18.76 | 18.43 | 18.86              | 19.50              |
|                       |           |           | MID        | Q16        | 18.95 | 18.52 | 19.12              | 19.50              |
|                       | HIGH      |           | Q16        | 18.72      | 18.60 | 19.19 | 19.50              |                    |
|                       | 25        | LOW       | Q16        | 18.52      | 18.45 | 18.76 | 19.50              |                    |
|                       |           | MID       | Q16        | 18.60      | 18.24 | 18.67 | 19.50              |                    |
|                       |           | HIGH      | Q16        | 18.41      | 18.43 | 18.74 | 19.50              |                    |
|                       | 50        | LOW       | Q16        | 18.50      | 18.36 | 18.67 | 19.50              |                    |
|                       | 10        | 1         | LOW        | 64QAM      | 18.81 | 18.52 | 18.82              | 19.50              |
|                       |           |           | MID        | 64QAM      | 19.11 | 18.59 | 19.07              | 19.50              |
| HIGH                  |           |           | 64QAM      | 18.69      | 18.64 | 19.08 | 19.50              |                    |
| 25                    |           | LOW       | 64QAM      | 18.41      | 18.17 | 18.48 | 19.50              |                    |
|                       |           | MID       | 64QAM      | 18.41      | 18.35 | 18.87 | 19.50              |                    |
|                       |           | HIGH      | 64QAM      | 18.61      | 18.36 | 18.67 | 19.50              |                    |
| 50                    |           | LOW       | 64QAM      | 18.55      | 18.35 | 18.67 | 19.50              |                    |

| LTE B41-State5 -Ant.3 |           |           |            |            |       |       |                    |                    |
|-----------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth             | RB Size   | RB offset | Modulation | 39725      | 40620 | 41515 | Tune-up power(dBm) |                    |
| 15                    | 1         | LOW       | QPSK       | 18.45      | 18.30 | 18.79 | 19.50              |                    |
|                       |           | MID       | QPSK       | 18.43      | 18.56 | 18.96 | 19.50              |                    |
|                       |           | HIGH      | QPSK       | 18.31      | 18.27 | 18.90 | 19.50              |                    |
|                       | 36        | LOW       | QPSK       | 18.31      | 18.49 | 18.83 | 19.50              |                    |
|                       |           | MID       | QPSK       | 18.45      | 18.36 | 18.89 | 19.50              |                    |
|                       |           | HIGH      | QPSK       | 18.41      | 18.38 | 18.62 | 19.50              |                    |
|                       | 75        | LOW       | QPSK       | 18.59      | 18.49 | 18.75 | 19.50              |                    |
|                       | 15        | 1         | LOW        | Q16        | 18.71 | 18.42 | 18.86              | 19.50              |
|                       |           |           | MID        | Q16        | 18.89 | 18.57 | 19.31              | 19.50              |
| HIGH                  |           |           | Q16        | 18.67      | 18.47 | 19.17 | 19.50              |                    |
| 36                    |           | LOW       | Q16        | 18.60      | 18.34 | 18.63 | 19.50              |                    |
|                       |           | MID       | Q16        | 18.44      | 18.50 | 18.75 | 19.50              |                    |
|                       |           | HIGH      | Q16        | 18.38      | 18.39 | 18.82 | 19.50              |                    |
| 75                    |           | LOW       | Q16        | 18.35      | 18.41 | 18.59 | 19.50              |                    |
| 15                    |           | 1         | LOW        | 64QAM      | 18.71 | 18.28 | 18.98              | 19.50              |
|                       |           |           | MID        | 64QAM      | 18.91 | 18.62 | 19.14              | 19.50              |
|                       | HIGH      |           | 64QAM      | 18.72      | 18.70 | 19.21 | 19.50              |                    |
|                       | 36        | LOW       | 64QAM      | 18.28      | 18.18 | 18.77 | 19.50              |                    |
|                       |           | MID       | 64QAM      | 18.38      | 18.33 | 18.98 | 19.50              |                    |
|                       |           | HIGH      | 64QAM      | 18.50      | 18.36 | 18.64 | 19.50              |                    |
|                       | 75        | LOW       | 64QAM      | 18.42      | 18.52 | 18.65 | 19.50              |                    |
|                       | Bandwidth | RB Size   | RB offset  | Modulation | 39750 | 40620 | 41490              | Tune-up power(dBm) |
|                       | 20        | 1         | LOW        | QPSK       | 18.35 | 18.87 | 18.69              | 19.50              |
| MID                   |           |           | QPSK       | 18.53      | 18.42 | 18.64 | 19.50              |                    |
| HIGH                  |           |           | QPSK       | 18.35      | 18.34 | 18.84 | 19.50              |                    |
| 50                    |           | LOW       | QPSK       | 18.46      | 18.77 | 18.69 | 19.50              |                    |
|                       |           | MID       | QPSK       | 18.53      | 18.34 | 18.46 | 19.50              |                    |
|                       |           | HIGH      | QPSK       | 18.51      | 18.40 | 18.70 | 19.50              |                    |
| 100                   |           | LOW       | QPSK       | 18.48      | 18.38 | 18.67 | 19.50              |                    |
| 20                    |           | 1         | LOW        | Q16        | 18.70 | 18.49 | 18.99              | 19.50              |
|                       |           |           | MID        | Q16        | 18.89 | 18.65 | 19.16              | 19.50              |
|                       | HIGH      |           | Q16        | 18.70      | 18.59 | 19.10 | 19.50              |                    |
|                       | 50        | LOW       | Q16        | 18.46      | 18.44 | 18.72 | 19.50              |                    |
|                       |           | MID       | Q16        | 18.50      | 18.38 | 18.80 | 19.50              |                    |
|                       |           | HIGH      | Q16        | 18.51      | 18.40 | 18.73 | 19.50              |                    |
|                       | 100       | LOW       | Q16        | 18.47      | 18.43 | 18.72 | 19.50              |                    |
|                       | 20        | 1         | LOW        | 64QAM      | 18.76 | 18.42 | 18.86              | 19.50              |
|                       |           |           | MID        | 64QAM      | 19.03 | 18.52 | 19.02              | 19.50              |
| HIGH                  |           |           | 64QAM      | 18.81      | 18.67 | 19.13 | 19.50              |                    |
| 50                    |           | LOW       | 64QAM      | 18.34      | 18.29 | 18.63 | 19.50              |                    |
|                       |           | MID       | 64QAM      | 18.53      | 18.46 | 18.92 | 19.50              |                    |
|                       |           | HIGH      | 64QAM      | 18.47      | 18.38 | 18.75 | 19.50              |                    |
| 100                   |           | LOW       | 64QAM      | 18.56      | 18.41 | 18.62 | 19.50              |                    |

## 8.4.1 NR Band5 Output Power

### N5-ANT0 Full power(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 165300 | 167300 | 169300 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 826.5  | 836.5  | 846.5  |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.23  | 22.25  | 22.20  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 165800 | 167300 | 168800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 829    | 836.5  | 844    |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.26  | 22.32  | 22.35  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166300 | 167300 | 168300 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 831.5  | 836.5  | 841.5  |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.40  | 22.28  | 22.44  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166800 | 167300 | 167800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 834    | 836.5  | 839    |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.26  | 22.29  | 22.23  | 24.20             |
|                 |                   | 1       | 53        | 22.25  | 22.25  | 22.26  | 24.20             |
|                 |                   | 1       | 104       | 22.23  | 22.22  | 22.21  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.22  | 22.33  | 22.24  | 24.20             |
|                 |                   | 50      | 28        | 22.20  | 22.32  | 22.32  | 24.20             |
|                 |                   | 50      | 56        | 22.27  | 22.25  | 22.27  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.70  | 21.84  | 21.90  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.29  | 21.34  | 21.23  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.76  | 19.87  | 19.70  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 18.00  | 17.88  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.74  | 20.84  | 20.74  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.23  | 20.43  | 20.51  | 22.20             |
| CP-OFDM 64QAM   | 1                 | 1       | 18.84     | 18.70  | 18.71  | 20.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 15.77     | 15.83  | 15.71  | 17.70  |                   |



**N5-ANT0 State1&2&3&4&5&6(SA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 165300 | 167300 | 169300 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offest | 826.5  | 836.5  | 846.5  |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.23  | 22.25  | 22.20  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 165800 | 167300 | 168800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offest | 829    | 836.5  | 844    |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.26  | 22.32  | 22.35  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166300 | 167300 | 168300 | Tune-up power(dB) |
|                 |                   | RB Size | RB offest | 831.5  | 836.5  | 841.5  |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.40  | 22.28  | 22.44  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166800 | 167300 | 167800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offest | 834    | 836.5  | 839    |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.26  | 22.29  | 22.23  | 24.20             |
|                 |                   | 1       | 53        | 22.25  | 22.25  | 22.26  | 24.20             |
|                 |                   | 1       | 104       | 22.23  | 22.22  | 22.21  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.22  | 22.33  | 22.24  | 24.20             |
|                 |                   | 50      | 28        | 22.20  | 22.32  | 22.32  | 24.20             |
|                 |                   | 50      | 56        | 22.27  | 22.25  | 22.27  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.70  | 21.84  | 21.90  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.29  | 21.34  | 21.23  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.76  | 19.87  | 19.70  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 18.00  | 17.88  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.74  | 20.84  | 20.74  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.23  | 20.43  | 20.51  | 22.20             |
| CP-OFDM 64QAM   | 1                 | 1       | 18.84     | 18.70  | 18.71  | 20.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 15.77     | 15.83  | 15.71  | 17.70  |                   |

## 8.4.1 NR Band5 Output Power

### N5-ANT1 Full power(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 165300 | 167300 | 169300 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 826.5  | 836.5  | 846.5  |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.67  | 22.49  | 22.43  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 165800 | 167300 | 168800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 829    | 836.5  | 844    |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.63  | 22.53  | 22.30  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166300 | 167300 | 168300 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 831.5  | 836.5  | 841.5  |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.44  | 22.33  | 22.65  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166800 | 167300 | 167800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 834    | 836.5  | 839    |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.32  | 22.51  | 22.25  | 24.20             |
|                 |                   | 1       | 53        | 22.42  | 22.23  | 22.50  | 24.20             |
|                 |                   | 1       | 104       | 22.42  | 22.37  | 22.35  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.47  | 22.89  | 22.51  | 24.20             |
|                 |                   | 50      | 28        | 22.56  | 22.40  | 22.24  | 24.20             |
|                 |                   | 50      | 56        | 22.58  | 22.36  | 22.68  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.51  | 21.60  | 21.74  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.92  | 21.46  | 21.76  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.03  | 19.75  | 20.20  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 17.89  | 18.06  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.24  | 20.92  | 21.32  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.32  | 20.25  | 20.34  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.09  | 18.70  | 18.70  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.24     | 15.83  | 16.15  | 17.70  |                   |

**N5-ANT1 State1&2&3&4&5&6(SA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 165300 | 167300 | 169300 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 826.5  | 836.5  | 846.5  |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.67  | 22.49  | 22.43  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 165800 | 167300 | 168800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 829    | 836.5  | 844    |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.63  | 22.53  | 22.30  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166300 | 167300 | 168300 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 831.5  | 836.5  | 841.5  |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.44  | 22.33  | 22.65  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166800 | 167300 | 167800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 834    | 836.5  | 839    |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.32  | 22.51  | 22.25  | 24.20             |
|                 |                   | 1       | 53        | 22.42  | 22.23  | 22.50  | 24.20             |
|                 |                   | 1       | 104       | 22.42  | 22.37  | 22.35  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.47  | 22.89  | 22.51  | 24.20             |
|                 |                   | 50      | 28        | 22.56  | 22.40  | 22.24  | 24.20             |
|                 |                   | 50      | 56        | 22.58  | 22.36  | 22.68  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.51  | 21.60  | 21.74  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.92  | 21.46  | 21.76  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.03  | 19.75  | 20.20  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 17.89  | 18.06  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.24  | 20.92  | 21.32  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.32  | 20.25  | 20.34  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.09  | 18.70  | 18.70  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.24     | 15.83  | 16.15  | 17.70  |                   |

## 8.4.2 NR Band7 Output Power

### N7-ANT3 Full power(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.60  | 22.68  | 22.65  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.45  | 23.43  | 23.45  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.53  | 23.57  | 23.63  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.01  | 22.20  | 22.06  | 23.70             |
|                 |                   | 1       | 53        | 22.12  | 22.18  | 21.98  | 23.70             |
|                 |                   | 1       | 104       | 22.00  | 22.00  | 22.15  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 21.99  | 22.37  | 22.18  | 23.70             |
|                 |                   | 50      | 28        | 22.29  | 22.27  | 22.10  | 23.70             |
|                 |                   | 50      | 56        | 22.11  | 22.17  | 22.13  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 22.12  | 22.21  | 22.27  | 22.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.67  | 21.82  | 22.02  | 22.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.98  | 20.84  | 20.99  | 21.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 19.09  | 19.11  | 19.16  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.97  | 22.09  | 22.09  | 22.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.60  | 21.66  | 21.68  | 21.70             |
| CP-OFDM 64QAM   | 1                 | 1       | 20.11     | 20.16  | 20.13  | 20.20  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 16.80     | 16.94  | 16.83  | 17.20  |                   |

**N7-ANT3 State1&3(SA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 18.27  | 18.16  | 18.01  | 19.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 17.87  | 17.98  | 18.26  | 19.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 17.86  | 18.06  | 17.96  | 19.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 18.06  | 18.23  | 18.17  | 19.70             |
|                 |                   | 1       | 53        | 17.98  | 18.20  | 18.22  | 19.70             |
|                 |                   | 1       | 104       | 18.10  | 17.96  | 18.20  | 19.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 17.98  | 18.25  | 18.11  | 19.70             |
|                 |                   | 50      | 28        | 18.08  | 18.22  | 18.10  | 19.70             |
|                 |                   | 50      | 56        | 18.21  | 18.17  | 18.22  | 19.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 18.14  | 18.28  | 18.36  | 19.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 17.98  | 17.78  | 17.89  | 19.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 17.94  | 17.80  | 17.88  | 19.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.50  | 18.38  | 18.43  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 18.25  | 18.10  | 18.28  | 19.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 18.40  | 18.37  | 18.49  | 19.70             |
| CP-OFDM 64QAM   | 1                 | 1       | 18.27     | 18.14  | 18.20  | 19.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 16.95     | 16.86  | 16.67  | 17.20  |                   |

**N7-ANT3 State2&4&6(SA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.60  | 22.68  | 22.65  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.45  | 23.43  | 23.45  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.53  | 23.57  | 23.63  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.01  | 22.20  | 22.06  | 23.70             |
|                 |                   | 1       | 53        | 22.12  | 22.18  | 21.98  | 23.70             |
|                 |                   | 1       | 104       | 22.00  | 22.00  | 22.15  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 21.99  | 22.37  | 22.18  | 23.70             |
|                 |                   | 50      | 28        | 22.29  | 22.27  | 22.10  | 23.70             |
|                 |                   | 50      | 56        | 22.11  | 22.17  | 22.13  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 22.12  | 22.21  | 22.27  | 22.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.67  | 21.82  | 22.02  | 22.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.98  | 20.84  | 20.99  | 21.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 19.09  | 19.11  | 19.16  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.97  | 22.09  | 22.09  | 22.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.60  | 21.66  | 21.68  | 21.70             |
| CP-OFDM 64QAM   | 1                 | 1       | 20.11     | 20.16  | 20.13  | 20.20  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 16.80     | 16.94  | 16.83  | 17.20  |                   |

## N7-ANT3 State5(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offest | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 16.94  | 17.22  | 17.06  | 18.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offest | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 16.86  | 17.05  | 17.17  | 18.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offest | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 16.95  | 17.60  | 17.47  | 18.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offest | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 17.08  | 17.25  | 17.15  | 18.20             |
|                 |                   | 1       | 53        | 17.22  | 17.17  | 17.02  | 18.20             |
|                 |                   | 1       | 104       | 17.07  | 16.98  | 17.18  | 18.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 17.13  | 17.36  | 17.21  | 18.20             |
|                 |                   | 50      | 28        | 17.14  | 17.22  | 17.19  | 18.20             |
|                 |                   | 50      | 56        | 17.30  | 17.12  | 17.21  | 18.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 17.06  | 17.24  | 17.10  | 18.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 16.69  | 16.77  | 16.84  | 18.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 16.69  | 16.82  | 16.97  | 18.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.48  | 17.38  | 17.28  | 18.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 17.00  | 17.05  | 16.98  | 18.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 17.37  | 17.33  | 17.23  | 18.20             |
| CP-OFDM 64QAM   | 1                 | 1       | 17.13     | 17.13  | 16.98  | 18.20  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 16.84     | 16.85  | 16.97  | 17.20  |                   |

## 8.4.2 NR Band7 Output Power

### N7-ANT4 Full power(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.79  | 22.69  | 22.48  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.62  | 22.48  | 22.23  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.73  | 22.55  | 22.42  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.75  | 22.60  | 22.48  | 23.70             |
|                 |                   | 1       | 53        | 22.80  | 22.73  | 22.49  | 23.70             |
|                 |                   | 1       | 104       | 22.65  | 22.51  | 22.34  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.34  | 22.20  | 22.30  | 23.70             |
|                 |                   | 50      | 28        | 22.93  | 22.76  | 22.91  | 23.70             |
|                 |                   | 50      | 56        | 22.29  | 22.19  | 22.22  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 22.33  | 22.22  | 22.32  | 22.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.29  | 21.32  | 21.22  | 22.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.93  | 19.90  | 20.08  | 21.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.32  | 18.45  | 18.62  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.97  | 21.15  | 21.31  | 22.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.81  | 20.91  | 20.79  | 21.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.23  | 19.22  | 19.40  | 20.20             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.06  | 16.03  | 16.15  | 17.20             |



## N7-ANT4 State1(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 19.60  | 19.59  | 19.62  | 20.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 19.77  | 19.59  | 19.49  | 20.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 19.71  | 19.59  | 19.86  | 20.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 19.70  | 19.75  | 19.43  | 20.70             |
|                 |                   | 1       | 53        | 19.53  | 19.65  | 19.48  | 20.70             |
|                 |                   | 1       | 104       | 19.62  | 19.40  | 19.37  | 20.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 19.75  | 19.85  | 19.63  | 20.70             |
|                 |                   | 50      | 28        | 19.78  | 19.70  | 19.64  | 20.70             |
|                 |                   | 50      | 56        | 19.62  | 19.57  | 19.56  | 20.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 19.75  | 19.62  | 19.74  | 20.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 19.21  | 19.31  | 19.22  | 20.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.31  | 19.30  | 19.38  | 20.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.48  | 18.43  | 18.56  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 19.72  | 19.58  | 19.68  | 20.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 19.70  | 19.85  | 19.68  | 20.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.25  | 19.19  | 19.11  | 20.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.15     | 15.98  | 15.82  | 17.20  |                   |

## N7-ANT4 State2&amp;4&amp;6(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 15.43  | 14.99  | 15.12  | 16.00             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 15.23  | 15.24  | 14.94  | 16.00             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 15.33  | 15.39  | 14.97  | 16.00             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 15.25  | 15.03  | 14.93  | 16.00             |
|                 |                   | 1       | 53        | 15.27  | 15.18  | 15.01  | 16.00             |
|                 |                   | 1       | 104       | 15.10  | 14.90  | 14.92  | 16.00             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 15.17  | 15.45  | 15.13  | 16.00             |
|                 |                   | 50      | 28        | 15.25  | 15.19  | 15.23  | 16.00             |
|                 |                   | 50      | 56        | 15.12  | 15.07  | 15.15  | 16.00             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 15.12  | 15.17  | 15.04  | 16.00             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 14.89  | 14.83  | 14.73  | 16.00             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 14.72  | 14.86  | 14.69  | 16.00             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 15.37  | 15.37  | 15.24  | 16.00             |
|                 | CP-OFDM QPSK      | 1       | 1         | 15.10  | 15.07  | 15.20  | 16.00             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 15.50  | 15.34  | 15.31  | 16.00             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 14.95  | 15.10  | 15.19  | 16.00             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 15.04  | 14.86  | 15.02  | 16.00             |

## N7-ANT4 State3&amp;5(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 17.72  | 17.95  | 17.75  | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 17.50  | 17.51  | 17.78  | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 17.60  | 17.63  | 17.60  | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 17.67  | 17.77  | 17.56  | 18.70             |
|                 |                   | 1       | 53        | 17.46  | 17.48  | 17.68  | 18.70             |
|                 |                   | 1       | 104       | 17.41  | 17.51  | 17.52  | 18.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 17.85  | 17.87  | 17.80  | 18.70             |
|                 |                   | 50      | 28        | 17.72  | 17.80  | 17.74  | 18.70             |
|                 |                   | 50      | 56        | 17.76  | 17.70  | 17.81  | 18.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 17.57  | 17.72  | 17.80  | 18.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 17.09  | 17.25  | 17.21  | 18.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 17.34  | 17.26  | 17.26  | 18.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 17.89  | 18.08  | 18.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 17.63  | 17.53  | 17.63  | 18.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 17.81  | 17.83  | 17.74  | 18.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 17.74  | 17.60  | 17.63  | 18.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.94     | 15.96  | 16.15  | 17.20  |                   |

### 8.4.3 NR Band38 Output Power

#### N38-ANT3 Full power(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 515000 | 519000 | 523000 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset |        |        |        |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.57  | 23.53  | 23.55  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 515500 | 519000 | 522500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset |        |        |        |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.81  | 23.66  | 23.74  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 516000 | 519000 | 522000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset |        |        |        |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 23.65  | 23.74  | 23.62  | 24.20             |
|                 |                   | 1       | 26        | 23.68  | 23.54  | 23.72  | 24.20             |
|                 |                   | 1       | 49        | 23.65  | 23.64  | 23.56  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 25      | 0         | 23.18  | 23.78  | 23.27  | 24.20             |
|                 |                   | 25      | 13        | 23.71  | 23.62  | 23.51  | 24.20             |
|                 |                   | 25      | 26        | 23.42  | 23.24  | 23.10  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 23.08  | 23.10  | 23.14  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 22.33  | 22.29  | 22.45  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.87  | 20.80  | 20.85  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 19.47  | 19.56  | 19.54  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 22.32  | 22.13  | 21.96  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 22.10  | 21.90  | 21.79  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 20.27  | 20.23  | 20.33  | 20.70             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.90  | 17.02  | 16.96  | 17.70             |

## N38-ANT3 State1&amp;3(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 515000 | 519000 | 523000 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2575   | 2595   | 2615   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 18.43  | 18.51  | 18.22  | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 515500 | 519000 | 522500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2577.5 | 2595   | 2612.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 18.06  | 18.07  | 18.39  | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 516000 | 519000 | 522000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2580   | 2595   | 2610   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 18.16  | 18.30  | 18.19  | 18.70             |
|                 |                   | 1       | 26        | 18.27  | 18.13  | 18.28  | 18.70             |
|                 |                   | 1       | 49        | 18.15  | 18.19  | 18.16  | 18.70             |
|                 | DFT-s-OFDM QPSK   | 25      | 0         | 18.30  | 18.43  | 18.40  | 18.70             |
|                 |                   | 25      | 13        | 18.39  | 18.34  | 18.27  | 18.70             |
|                 | DFT-s-OFDM QPSK   | 25      | 26        | 18.23  | 18.26  | 18.34  | 18.70             |
|                 |                   | 50      | 0         | 18.49  | 18.35  | 18.40  | 18.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 18.03  | 17.95  | 17.92  | 18.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 18.36  | 18.22  | 18.12  | 18.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.52  | 18.50  | 18.48  | 18.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 18.31  | 18.21  | 18.03  | 18.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 18.39  | 18.44  | 18.32  | 18.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.08  | 18.25  | 18.39  | 18.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.83     | 17.03  | 17.11  | 17.70  |                   |

## N38-ANT3 State2&amp;4&amp;6(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 515000 | 519000 | 523000 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset |        |        |        |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.57  | 23.53  | 23.55  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 515500 | 519000 | 522500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2577.5 | 2595   | 2612.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.81  | 23.66  | 23.74  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 516000 | 519000 | 522000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2580   | 2595   | 2610   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 23.65  | 23.74  | 23.62  | 24.20             |
|                 |                   | 1       | 26        | 23.68  | 23.54  | 23.72  | 24.20             |
|                 |                   | 1       | 49        | 23.65  | 23.64  | 23.56  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 25      | 0         | 23.18  | 23.78  | 23.27  | 24.20             |
|                 |                   | 25      | 13        | 23.71  | 23.62  | 23.51  | 24.20             |
|                 |                   | 25      | 26        | 23.42  | 23.24  | 23.10  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 23.08  | 23.10  | 23.14  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 22.33  | 22.29  | 22.45  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.87  | 20.80  | 20.85  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 19.47  | 19.56  | 19.54  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 22.32  | 22.13  | 21.96  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 22.10  | 21.90  | 21.79  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 20.27  | 20.23  | 20.33  | 20.70             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.90  | 17.02  | 16.96  | 17.70             |

## N38-ANT3 State5(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 515000 | 519000 | 523000 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2575   | 2595   | 2615   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 16.91  | 16.85  | 17.01  | 17.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 515500 | 519000 | 522500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2577.5 | 2595   | 2612.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 16.33  | 16.82  | 16.61  | 17.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 516000 | 519000 | 522000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2580   | 2595   | 2610   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 16.68  | 16.83  | 16.68  | 17.20             |
|                 |                   | 1       | 26        | 16.78  | 16.60  | 16.81  | 17.20             |
|                 |                   | 1       | 49        | 16.70  | 16.73  | 16.61  | 17.20             |
|                 | DFT-s-OFDM QPSK   | 25      | 0         | 16.85  | 17.04  | 16.87  | 17.20             |
|                 |                   | 25      | 13        | 16.82  | 16.84  | 16.85  | 17.20             |
|                 |                   | 25      | 26        | 16.76  | 16.80  | 16.66  | 17.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 16.62  | 16.82  | 16.79  | 17.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 16.22  | 16.39  | 16.28  | 17.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 16.64  | 16.73  | 16.56  | 17.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 16.92  | 16.99  | 16.79  | 17.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 16.64  | 16.69  | 16.78  | 17.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 16.78  | 16.90  | 16.72  | 17.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 16.88  | 16.70  | 16.55  | 17.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.60     | 16.52  | 16.43  | 17.20  |                   |

### 8.4.3 NR Band38 Output Power

#### N38-ANT4 Full power(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 515000 | 519000 | 523000 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2575   | 2595   | 2615   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.24  | 22.47  | 22.40  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 515500 | 519000 | 522500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2577.5 | 2595   | 2612.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.53  | 22.50  | 22.42  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 516000 | 519000 | 522000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2580   | 2595   | 2610   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.64  | 22.51  | 22.42  | 24.20             |
|                 |                   | 1       | 26        | 22.68  | 22.55  | 22.48  | 24.20             |
|                 |                   | 1       | 49        | 22.57  | 22.44  | 22.28  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 25      | 0         | 22.46  | 22.20  | 22.21  | 24.20             |
|                 |                   | 25      | 13        | 22.55  | 22.35  | 22.34  | 24.20             |
|                 |                   | 25      | 26        | 22.21  | 22.44  | 22.34  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 21.77  | 21.83  | 21.64  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.31  | 21.25  | 21.45  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.98  | 19.83  | 20.00  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.07  | 18.22  | 18.19  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.90  | 20.73  | 20.89  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.71  | 20.51  | 20.70  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.87  | 18.85  | 18.82  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.76     | 15.97  | 15.93  | 17.70  |                   |



**N38-ANT4 State1(SA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 515000 | 519000 | 523000 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2575   | 2595   | 2615   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 19.43  | 19.12  | 19.15  | 20.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 515500 | 519000 | 522500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2577.5 | 2595   | 2612.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 19.28  | 19.01  | 19.05  | 20.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 516000 | 519000 | 522000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2580   | 2595   | 2610   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 19.45  | 19.53  | 19.28  | 20.70             |
|                 |                   | 1       | 26        | 19.35  | 19.39  | 19.32  | 20.70             |
|                 |                   | 1       | 49        | 19.35  | 19.26  | 19.13  | 20.70             |
|                 | DFT-s-OFDM QPSK   | 25      | 0         | 19.30  | 19.44  | 19.29  | 20.70             |
|                 |                   | 25      | 13        | 19.43  | 19.27  | 19.19  | 20.70             |
|                 |                   | 25      | 26        | 19.17  | 19.20  | 19.36  | 20.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 19.45  | 19.27  | 19.42  | 20.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 19.09  | 18.91  | 18.82  | 20.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 18.91  | 18.93  | 19.09  | 20.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.06  | 18.11  | 18.23  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 19.24  | 19.20  | 19.25  | 20.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 19.53  | 19.45  | 19.34  | 20.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.71  | 18.81  | 18.95  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.81     | 15.72  | 15.71  | 17.70  |                   |

**N38-ANT4 State3&5(SA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 515000 | 519000 | 523000 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2575   | 2595   | 2615   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 17.88  | 17.73  | 17.61  | 19.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 515500 | 519000 | 522500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2577.5 | 2595   | 2612.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 17.92  | 17.59  | 17.56  | 19.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 516000 | 519000 | 522000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2580   | 2595   | 2610   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 17.75  | 17.89  | 17.49  | 19.20             |
|                 |                   | 1       | 26        | 17.76  | 17.81  | 17.69  | 19.20             |
|                 |                   | 1       | 49        | 17.75  | 17.65  | 17.46  | 19.20             |
|                 | DFT-s-OFDM QPSK   | 25      | 0         | 17.84  | 17.98  | 17.88  | 19.20             |
|                 |                   | 25      | 13        | 17.90  | 17.89  | 17.78  | 19.20             |
|                 |                   | 25      | 26        | 17.68  | 17.78  | 17.83  | 19.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 18.06  | 17.87  | 17.90  | 19.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 17.65  | 17.50  | 17.59  | 19.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 17.84  | 17.67  | 17.51  | 19.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.27  | 18.15  | 17.99  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 17.71  | 17.80  | 17.74  | 19.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 18.14  | 18.07  | 18.14  | 19.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 17.89  | 17.89  | 18.04  | 19.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.87     | 15.71  | 15.85  | 17.70  |                   |

**N38-ANT4 State2&4&6(SA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 515000 | 519000 | 523000 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2575   | 2595   | 2615   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 16.28  | 16.27  | 16.30  | 17.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 515500 | 519000 | 522500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2577.5 | 2595   | 2612.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 16.54  | 16.21  | 16.22  | 17.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 516000 | 519000 | 522000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2580   | 2595   | 2610   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 16.26  | 16.42  | 16.22  | 17.20             |
|                 |                   | 1       | 26        | 16.41  | 16.40  | 16.26  | 17.20             |
|                 |                   | 1       | 49        | 16.29  | 16.22  | 16.09  | 17.20             |
|                 | DFT-s-OFDM QPSK   | 25      | 0         | 16.43  | 16.58  | 16.46  | 17.20             |
|                 |                   | 25      | 13        | 16.36  | 16.43  | 16.30  | 17.20             |
|                 |                   | 25      | 26        | 16.44  | 16.36  | 16.24  | 17.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 16.32  | 16.45  | 16.37  | 17.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 15.91  | 16.05  | 15.90  | 17.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 16.30  | 16.32  | 16.12  | 17.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 16.71  | 16.68  | 16.49  | 17.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 16.44  | 16.31  | 16.19  | 17.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 16.71  | 16.57  | 16.65  | 17.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 16.30  | 16.38  | 16.56  | 17.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.81     | 15.65  | 15.78  | 17.20  |                   |

## 8.4.5 NR Band41 Output Power

### N41-ANT3 Full power(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 23.38   | 23.48   | 23.48   | 23.48   | 23.36   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 22.51   | 22.75   | 22.75   | 22.92   | 22.74   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 22.45   | 22.62   | 22.81   | 22.65   | 22.56   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 22.68   | 22.72   | 22.60   | 22.86   | 22.39   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 22.85   | 22.74   | 22.58   | 22.85   | 22.52   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 22.59   | 22.81   | 22.70   | 22.75   | 22.64   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 22.65   | 22.82   | 22.71   | 23.03   | 22.63   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 22.74   | 22.61   | 22.58   | 23.05   | 22.65   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 22.57   | 22.70   | 23.28   | 22.67   | 22.65   | 24.20             |
|                 |                   | 1       | 137       | 22.85   | 22.74   | 22.85   | 23.17   | 23.24   | 24.20             |
|                 |                   | 1       | 271       | 22.79   | 22.76   | 22.70   | 22.63   | 22.65   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 22.90   | 23.11   | 23.66   | 23.08   | 23.19   | 24.20             |
|                 |                   | 135     | 69        | 23.55   | 22.81   | 23.45   | 23.57   | 23.16   | 24.20             |
|                 |                   | 135     | 138       | 22.74   | 23.10   | 22.93   | 22.98   | 23.12   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 22.90   | 23.00   | 22.96   | 22.94   | 22.92   | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.54   | 21.49   | 21.40   | 21.51   | 21.58   | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.11   | 20.11   | 19.98   | 20.10   | 20.06   | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.53   | 18.38   | 18.54   | 18.48   | 18.67   | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.07   | 21.16   | 21.21   | 21.10   | 21.09   | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.03   | 20.85   | 20.95   | 21.02   | 21.04   | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.26   | 19.10   | 19.27   | 19.43   | 19.17   | 20.70             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.11   | 16.36   | 16.29   | 16.29   | 16.39   | 17.70             |

## N41-ANT3 State1&amp;3(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204       | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02      | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 19.43        | 19.63   | 19.16   | 19.29   | 19.59   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200       | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511         | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 18.65        | 18.58   | 18.49   | 18.70   | 18.39   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202       | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01      | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 18.66        | 18.34   | 18.71   | 18.84   | 18.54   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204       | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02      | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 18.71        | 18.56   | 18.40   | 18.82   | 18.70   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200       | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526         | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 18.74        | 18.43   | 18.48   | 18.63   | 18.57   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202       | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01      | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 18.51        | 18.48   | 18.41   | 18.64   | 18.69   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204       | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02      | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 18.48        | 18.57   | 18.41   | 18.83   | 18.41   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200       | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541         | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 18.55        | 18.37   | 18.43   | 18.73   | 18.75   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202       | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01      | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 18.54        | 18.60   | 19.60   | 18.65   | 18.61   | 20.20             |
|                 |                   | 1       | 137       | <b>19.46</b> | 19.40   | 19.56   | 19.52   | 18.55   | 20.20             |
|                 |                   | 1       | 271       | 18.76        | 18.80   | 19.01   | 18.84   | 18.96   | 20.20             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | <b>19.36</b> | 19.49   | 19.54   | 19.48   | 19.24   | 20.20             |
|                 |                   | 135     | 69        | <b>19.36</b> | 19.51   | 19.34   | 19.38   | 19.46   | 20.20             |
|                 |                   | 135     | 138       | 19.27        | 19.36   | 19.30   | 19.26   | 19.20   | 20.20             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 19.42        | 19.39   | 19.34   | 19.37   | 19.19   | 20.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 18.36        | 18.38   | 18.42   | 18.49   | 18.57   | 20.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 18.58        | 18.45   | 18.45   | 18.31   | 18.41   | 20.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.46        | 18.71   | 18.57   | 18.45   | 18.42   | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 18.76        | 18.71   | 18.64   | 18.60   | 18.69   | 20.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 18.75        | 18.97   | 18.90   | 18.95   | 18.73   | 20.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.64        | 18.56   | 18.72   | 18.67   | 18.78   | 20.20             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.31        | 16.09   | 16.27   | 16.38   | 16.20   | 17.70             |

## N41-ANT3 State5(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 18.03   | 18.08   | 18.01   | 17.95   | 18.06   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 17.24   | 17.13   | 17.62   | 17.35   | 17.18   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 17.45   | 17.34   | 17.60   | 17.45   | 17.33   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 17.24   | 17.06   | 17.31   | 17.42   | 17.16   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 17.38   | 17.22   | 17.35   | 17.58   | 17.25   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 17.42   | 17.33   | 17.43   | 17.47   | 17.28   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 17.39   | 17.19   | 17.46   | 17.54   | 17.34   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 17.35   | 17.12   | 17.39   | 17.42   | 17.16   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 17.42   | 17.38   | 18.16   | 17.51   | 17.48   | 18.70             |
|                 |                   | 1       | 137       | 18.08   | 18.09   | 18.15   | 17.44   | 18.10   | 18.70             |
|                 |                   | 1       | 271       | 17.52   | 17.50   | 17.46   | 17.43   | 17.45   | 18.70             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 17.99   | 18.19   | 18.34   | 18.12   | 18.10   | 18.70             |
|                 |                   | 135     | 69        | 18.20   | 18.17   | 18.16   | 17.96   | 18.04   | 18.70             |
|                 |                   | 135     | 138       | 18.15   | 17.94   | 18.00   | 17.85   | 18.20   | 18.70             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 18.11   | 17.84   | 18.03   | 17.95   | 17.91   | 18.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 17.16   | 17.02   | 17.22   | 17.48   | 17.35   | 18.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 17.35   | 17.41   | 17.38   | 17.34   | 17.39   | 18.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.61   | 17.83   | 17.80   | 17.84   | 17.83   | 18.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 17.63   | 17.58   | 17.49   | 17.53   | 17.65   | 18.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 17.70   | 17.86   | 17.71   | 17.88   | 17.88   | 18.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 17.55   | 17.49   | 17.53   | 17.40   | 17.45   | 18.70             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.10   | 16.40   | 16.26   | 16.18   | 16.27   | 17.70             |

## N41-ANT3 State2&amp;4&amp;6(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 23.38   | 23.48   | 23.48   | 23.48   | 23.36   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 22.51   | 22.75   | 22.75   | 22.92   | 22.74   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 22.45   | 22.62   | 22.81   | 22.65   | 22.56   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 22.68   | 22.72   | 22.60   | 22.86   | 22.39   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 22.85   | 22.74   | 22.58   | 22.85   | 22.52   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 22.59   | 22.81   | 22.70   | 22.75   | 22.64   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 22.65   | 22.82   | 22.71   | 23.03   | 22.63   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 22.74   | 22.61   | 22.58   | 23.05   | 22.65   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 22.57   | 22.70   | 23.28   | 22.67   | 22.65   | 24.20             |
|                 |                   | 1       | 137       | 22.85   | 22.74   | 22.85   | 23.17   | 23.24   | 24.20             |
|                 |                   | 1       | 271       | 22.79   | 22.76   | 22.70   | 22.63   | 22.65   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 22.90   | 23.11   | 23.66   | 23.08   | 23.19   | 24.20             |
|                 |                   | 135     | 69        | 23.55   | 22.81   | 23.45   | 23.57   | 23.16   | 24.20             |
|                 |                   | 135     | 138       | 22.74   | 23.10   | 22.93   | 22.98   | 23.12   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 22.90   | 23.00   | 22.96   | 22.94   | 22.92   | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.54   | 21.49   | 21.40   | 21.51   | 21.58   | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.11   | 20.11   | 19.98   | 20.10   | 20.06   | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.53   | 18.38   | 18.54   | 18.48   | 18.67   | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.07   | 21.16   | 21.21   | 21.10   | 21.09   | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.03   | 20.85   | 20.95   | 21.02   | 21.04   | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.26   | 19.10   | 19.27   | 19.43   | 19.17   | 20.70             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.11   | 16.36   | 16.29   | 16.29   | 16.39   | 17.70             |

## 8.4.5 NR Band41 Output Power

### N41-ANT4 Full power(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.60   | 22.36   | 22.43   | 22.32   | 22.40   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 22.78   | 22.68   | 22.75   | 22.70   | 22.63   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 22.66   | 22.80   | 22.47   | 22.59   | 22.58   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 22.82   | 22.71   | 22.72   | 22.59   | 22.27   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 22.66   | 22.52   | 22.42   | 22.67   | 22.40   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 22.76   | 22.68   | 22.50   | 22.53   | 22.59   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 22.74   | 22.42   | 22.72   | 22.43   | 22.39   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 22.61   | 22.51   | 22.53   | 22.38   | 22.34   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 22.59   | 22.41   | 22.32   | 22.43   | 22.28   | 24.20             |
|                 |                   | 1       | 137       | 22.42   | 22.61   | 22.85   | 22.62   | 22.46   | 24.20             |
|                 |                   | 1       | 271       | 22.32   | 22.49   | 22.56   | 22.40   | 22.36   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 23.23   | 22.97   | 22.38   | 23.09   | 22.97   | 24.20             |
|                 |                   | 135     | 69        | 22.71   | 22.95   | 22.87   | 22.76   | 22.99   | 24.20             |
|                 |                   | 135     | 138       | 22.46   | 22.54   | 22.34   | 22.44   | 22.47   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 21.60   | 21.45   | 21.48   | 21.34   | 21.62   | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.23   | 21.29   | 21.37   | 21.38   | 21.32   | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.92   | 20.10   | 19.93   | 19.81   | 20.08   | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.36   | 18.30   | 18.19   | 18.07   | 18.22   | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.87   | 20.74   | 20.84   | 20.74   | 20.94   | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.48   | 20.75   | 20.59   | 20.43   | 20.40   | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.85   | 18.85   | 18.90   | 18.94   | 18.70   | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.89     | 15.92   | 15.92   | 16.02   | 16.04   | 17.70   |                   |



## N41-ANT4 State1(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 19.53   | 19.76   | 19.47   | 19.84   | 19.74   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 19.15   | 19.00   | 19.04   | 18.80   | 18.53   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 19.17   | 19.34   | 19.09   | 19.02   | 18.80   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 19.05   | 19.11   | 18.87   | 19.00   | 18.58   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 19.03   | 19.28   | 19.01   | 19.08   | 18.85   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 19.14   | 19.20   | 18.88   | 19.15   | 18.87   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 19.15   | 18.97   | 19.10   | 19.16   | 18.69   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 19.12   | 19.01   | 18.83   | 19.07   | 18.55   | 20.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 19.30   | 19.14   | 19.84   | 18.85   | 18.74   | 20.20             |
|                 |                   | 1       | 137       | 19.37   | 19.73   | 19.56   | 19.42   | 19.21   | 20.20             |
|                 |                   | 1       | 271       | 18.76   | 18.54   | 18.36   | 18.26   | 18.23   | 20.20             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 19.55   | 19.51   | 19.77   | 19.72   | 19.53   | 20.20             |
|                 |                   | 135     | 69        | 19.60   | 19.66   | 19.63   | 19.73   | 19.59   | 20.20             |
|                 |                   | 135     | 138       | 19.08   | 19.23   | 19.26   | 19.42   | 19.39   | 20.20             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 19.28   | 19.55   | 19.42   | 19.22   | 19.49   | 20.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 18.81   | 18.96   | 18.81   | 18.93   | 18.76   | 20.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 18.70   | 18.89   | 18.88   | 18.89   | 18.94   | 20.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.77   | 17.87   | 17.77   | 17.85   | 17.89   | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 19.04   | 19.22   | 19.10   | 19.13   | 19.16   | 20.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 19.18   | 19.24   | 19.37   | 19.52   | 19.47   | 20.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.30   | 18.43   | 18.51   | 18.47   | 18.27   | 20.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.71     | 15.94   | 15.83   | 15.83   | 15.71   | 17.70   |                   |

## N41-ANT4 State3&amp;5(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 17.98   | 17.93   | 18.06   | 18.16   | 17.86   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 17.51   | 17.56   | 17.51   | 17.35   | 17.30   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 17.53   | 17.55   | 17.67   | 17.50   | 17.10   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 17.80   | 17.58   | 17.45   | 17.57   | 17.31   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 17.54   | 17.79   | 17.40   | 17.54   | 17.13   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 17.48   | 17.50   | 17.61   | 17.63   | 17.37   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 17.82   | 17.51   | 17.50   | 17.34   | 17.26   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 17.51   | 17.76   | 17.38   | 17.62   | 17.17   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 17.79   | 17.65   | 18.07   | 17.35   | 17.15   | 18.70             |
|                 |                   | 1       | 137       | 17.87   | 18.05   | 18.05   | 17.92   | 17.81   | 18.70             |
|                 |                   | 1       | 271       | 17.26   | 17.02   | 17.20   | 17.05   | 16.94   | 18.70             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 17.93   | 17.97   | 18.15   | 18.14   | 17.94   | 18.70             |
|                 |                   | 135     | 69        | 18.12   | 18.11   | 18.07   | 18.08   | 18.05   | 18.70             |
|                 |                   | 135     | 138       | 17.46   | 17.65   | 17.66   | 17.61   | 17.78   | 18.70             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 17.68   | 17.85   | 17.83   | 17.99   | 17.68   | 18.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 17.50   | 17.25   | 17.33   | 17.22   | 17.30   | 18.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 17.23   | 17.38   | 17.36   | 17.16   | 17.53   | 18.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.64   | 17.58   | 17.46   | 17.43   | 17.27   | 18.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 17.50   | 17.47   | 17.55   | 17.54   | 17.74   | 18.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 17.92   | 17.61   | 17.80   | 17.73   | 17.94   | 18.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 17.44   | 17.82   | 17.63   | 17.75   | 17.47   | 18.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.21     | 15.99   | 16.15   | 15.99   | 16.16   | 17.70   |                   |

## N41-ANT4 State2&amp;4&amp;6(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 13.71   | 13.51   | 13.69   | 13.96   | 13.79   | 14.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 13.39   | 13.34   | 13.35   | 13.22   | 13.19   | 14.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 13.50   | 13.34   | 13.30   | 13.16   | 13.15   | 14.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 13.30   | 13.52   | 13.17   | 13.15   | 13.15   | 14.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 13.44   | 13.38   | 13.41   | 13.26   | 12.98   | 14.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 13.56   | 13.46   | 13.23   | 13.22   | 13.11   | 14.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 13.58   | 13.14   | 13.45   | 13.07   | 13.12   | 14.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 13.34   | 13.40   | 13.34   | 13.25   | 13.09   | 14.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 13.57   | 13.39   | 13.86   | 13.19   | 13.02   | 14.20             |
|                 |                   | 1       | 137       | 13.39   | 13.81   | 13.70   | 13.64   | 13.40   | 14.20             |
|                 |                   | 1       | 271       | 13.06   | 12.97   | 12.72   | 12.47   | 12.32   | 14.20             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 13.83   | 13.60   | 13.87   | 13.67   | 13.72   | 14.20             |
|                 |                   | 135     | 69        | 13.82   | 13.64   | 13.70   | 13.82   | 13.67   | 14.20             |
|                 |                   | 135     | 138       | 13.26   | 13.28   | 13.46   | 13.43   | 13.29   | 14.20             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 13.51   | 13.46   | 13.52   | 13.39   | 13.40   | 14.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 13.09   | 12.90   | 13.03   | 13.00   | 13.03   | 14.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 13.40   | 13.40   | 13.37   | 13.19   | 13.31   | 14.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 13.58   | 13.68   | 13.66   | 13.60   | 13.67   | 14.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 13.07   | 13.43   | 13.23   | 13.10   | 13.42   | 14.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 13.37   | 13.45   | 13.46   | 13.57   | 13.35   | 14.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 13.18   | 13.15   | 13.28   | 13.28   | 13.43   | 14.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 12.92     | 13.17   | 13.02   | 12.91   | 12.83   | 14.20   |                   |

## 8.4.6 NR Band41 Output Power

### N66-ANT3 Full power(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 23.43  | 23.39  | 23.32  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.25  | 23.19  | 23.03  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.40  | 23.34  | 23.25  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 23.32  | 23.47  | 23.30  | 24.20             |
|                 |                   | 1       | 53        | 23.27  | 23.43  | 23.35  | 24.20             |
|                 |                   | 1       | 104       | 23.28  | 23.20  | 23.18  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 23.13  | 23.47  | 22.96  | 24.20             |
|                 |                   | 50      | 28        | 23.35  | 23.05  | 23.31  | 24.20             |
|                 |                   | 50      | 56        | 22.89  | 22.99  | 23.00  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 23.06  | 23.06  | 23.12  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.88  | 22.04  | 22.06  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.45  | 20.60  | 20.77  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 19.19  | 19.15  | 19.29  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.65  | 21.84  | 21.65  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.46  | 21.59  | 21.73  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 20.07  | 19.90  | 20.04  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.49     | 16.53  | 16.60  | 17.70  |                   |

## N66-ANT3 State1&amp;3&amp;5(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 20.53  | 20.37  | 20.14  | 21.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 20.41  | 20.26  | 20.27  | 21.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 20.44  | 20.33  | 20.18  | 21.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 20.35  | 20.39  | 20.35  | 21.20             |
|                 |                   | 1       | 53        | 20.29  | 20.17  | 20.31  | 21.20             |
|                 |                   | 1       | 104       | 20.21  | 20.17  | 20.21  | 21.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 20.45  | 20.47  | 20.37  | 21.20             |
|                 |                   | 50      | 28        | 20.39  | 20.46  | 20.26  | 21.20             |
|                 |                   | 50      | 56        | 20.44  | 20.43  | 20.34  | 21.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 20.49  | 20.59  | 20.52  | 21.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 19.94  | 19.95  | 19.89  | 21.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.05  | 20.06  | 20.17  | 21.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.97  | 19.11  | 19.00  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.27  | 20.27  | 20.47  | 21.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.74  | 20.54  | 20.50  | 21.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.70  | 19.87  | 20.05  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.73     | 16.53  | 16.72  | 17.70  |                   |

## N66-ANT3 State2&amp;4&amp;6(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 23.43  | 23.39  | 23.32  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.25  | 23.19  | 23.03  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.40  | 23.34  | 23.25  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 23.32  | 23.47  | 23.30  | 24.20             |
|                 |                   | 1       | 53        | 23.27  | 23.43  | 23.35  | 24.20             |
|                 |                   | 1       | 104       | 23.28  | 23.20  | 23.18  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 23.13  | 23.47  | 22.96  | 24.20             |
|                 |                   | 50      | 28        | 23.35  | 23.05  | 23.31  | 24.20             |
|                 |                   | 50      | 56        | 22.89  | 22.99  | 23.00  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 23.06  | 23.06  | 23.12  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.88  | 22.04  | 22.06  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.45  | 20.60  | 20.77  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 19.19  | 19.15  | 19.29  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.65  | 21.84  | 21.65  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.46  | 21.59  | 21.73  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 20.07  | 19.90  | 20.04  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.49     | 16.53  | 16.60  | 17.70  |                   |

## 8.4.6 NR Band66 Output Power

### N66-ANT4 Full power(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.32  | 23.43  | 22.39  | 24.10             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.28  | 23.28  | 22.42  | 24.10             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.34  | 23.46  | 22.37  | 24.10             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 22.30  | 23.35  | 22.34  | 24.10             |
|                 |                   | 1       | 53        | 22.29  | 22.34  | 22.29  | 24.10             |
|                 |                   | 1       | 104       | 22.26  | 22.32  | 22.42  | 24.10             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.31  | 22.40  | 22.32  | 24.10             |
|                 |                   | 50      | 28        | 22.28  | 22.22  | 22.28  | 24.10             |
|                 |                   | 50      | 56        | 22.27  | 22.27  | 22.28  | 24.10             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.60  | 21.66  | 21.77  | 23.10             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.25  | 21.27  | 21.34  | 23.10             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.82  | 19.84  | 19.76  | 21.60             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.84  | 17.78  | 17.80  | 19.60             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.88  | 20.89  | 20.72  | 22.60             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.29  | 20.21  | 20.33  | 22.10             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.89  | 18.84  | 18.89  | 20.60             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.85     | 15.90  | 15.77  | 17.60  |                   |

## N66-ANT4State1(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.32  | 23.43  | 22.39  | 24.10             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.28  | 23.28  | 22.42  | 24.10             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.34  | 23.46  | 22.37  | 24.10             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 22.30  | 23.35  | 22.34  | 24.10             |
|                 |                   | 1       | 53        | 22.29  | 22.34  | 22.29  | 24.10             |
|                 |                   | 1       | 104       | 22.26  | 22.32  | 22.42  | 24.10             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.31  | 22.40  | 22.32  | 24.10             |
|                 |                   | 50      | 28        | 22.28  | 22.22  | 22.28  | 24.10             |
|                 |                   | 50      | 56        | 22.27  | 22.27  | 22.28  | 24.10             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.60  | 21.66  | 21.77  | 23.10             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.25  | 21.27  | 21.34  | 23.10             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.82  | 19.84  | 19.76  | 21.60             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.84  | 17.78  | 17.80  | 19.60             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.88  | 20.89  | 20.72  | 22.60             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.29  | 20.21  | 20.33  | 22.10             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.89  | 18.84  | 18.89  | 20.60             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.85     | 15.90  | 15.77  | 17.60  |                   |



**N66-ANT4State2&4(SA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 16.48  | 16.65  | 16.35  | 17.60             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 16.10  | 16.40  | 16.13  | 17.60             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 16.15  | 16.36  | 16.14  | 17.60             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 16.36  | 16.51  | 16.32  | 17.60             |
|                 |                   | 1       | 53        | 16.46  | 16.25  | 16.48  | 17.60             |
|                 |                   | 1       | 104       | 16.32  | 16.33  | 16.36  | 17.60             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 16.37  | 16.61  | 16.30  | 17.60             |
|                 |                   | 50      | 28        | 16.45  | 16.52  | 16.47  | 17.60             |
|                 |                   | 50      | 56        | 16.38  | 16.42  | 16.42  | 17.60             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 16.52  | 16.50  | 16.60  | 17.60             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 16.30  | 16.31  | 16.35  | 17.60             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 16.26  | 16.24  | 16.20  | 17.60             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 16.75  | 16.69  | 16.68  | 17.60             |
|                 | CP-OFDM QPSK      | 1       | 1         | 16.30  | 16.33  | 16.49  | 17.60             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 16.80  | 16.60  | 16.47  | 17.60             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 16.61  | 16.42  | 16.25  | 17.60             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.61     | 15.75  | 15.74  | 17.60  |                   |

## N66-ANT1State3&amp;5(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 21.60  | 21.67  | 21.80  | 22.60             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 21.34  | 21.35  | 21.49  | 22.60             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 21.26  | 21.30  | 21.40  | 22.60             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 21.38  | 21.57  | 21.32  | 22.60             |
|                 |                   | 1       | 53        | 21.46  | 21.56  | 21.37  | 22.60             |
|                 |                   | 1       | 104       | 21.39  | 21.38  | 21.46  | 22.60             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 21.43  | 21.83  | 21.53  | 22.60             |
|                 |                   | 50      | 28        | 21.56  | 21.64  | 21.61  | 22.60             |
|                 |                   | 50      | 56        | 21.37  | 21.53  | 21.67  | 22.60             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.67  | 21.63  | 21.47  | 22.60             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 20.70  | 20.80  | 20.75  | 22.60             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.91  | 19.81  | 19.74  | 21.60             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.87  | 17.72  | 17.73  | 19.60             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.76  | 20.75  | 20.73  | 22.60             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.30  | 20.21  | 20.26  | 22.10             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.75  | 18.73  | 18.74  | 20.60             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.88     | 15.77  | 15.88  | 17.60  |                   |

## N66-ANT1State6(SA)

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 15.52  | 15.56  | 15.54  | 16.60             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 15.62  | 15.25  | 15.15  | 16.60             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 15.54  | 15.46  | 15.42  | 16.60             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 15.36  | 15.55  | 15.42  | 16.60             |
|                 |                   | 1       | 53        | 15.30  | 15.51  | 15.49  | 16.60             |
|                 |                   | 1       | 104       | 15.35  | 15.30  | 15.29  | 16.60             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 15.48  | 15.67  | 15.40  | 16.60             |
|                 |                   | 50      | 28        | 15.41  | 15.50  | 15.63  | 16.60             |
|                 |                   | 50      | 56        | 15.32  | 15.41  | 15.35  | 16.60             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 15.57  | 15.50  | 15.31  | 16.60             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 15.09  | 15.04  | 14.88  | 16.60             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 15.20  | 15.24  | 15.16  | 16.60             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 15.53  | 15.71  | 15.58  | 16.60             |
|                 | CP-OFDM QPSK      | 1       | 1         | 15.13  | 15.28  | 15.34  | 16.60             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 15.57  | 15.59  | 15.77  | 16.60             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 15.29  | 15.41  | 15.57  | 16.60             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.12     | 15.09  | 15.09  | 16.60  |                   |

## 8 CONDUCTED RF OUPUT POWER

|       |                         |
|-------|-------------------------|
| 8.3   | ENDC-LTE Output Power   |
| 8.3.1 | LTE Band2 Output Power  |
| 8.3.2 | LTE Band5 Output Power  |
| 8.3.3 | LTE Band7 Output Power  |
| 8.3.4 | LTE Band26 Output Power |
| 8.3.5 | LTE Band66 Output Power |

### 8.3.1 LTE Band2 Output Power

| LTE B2-Full Power -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 18607      | 18900 | 19193 | Tune-up power(dBm) |                    |
| 1.4                             | 1               | LOW       | QPSK       | 22.95      | 22.80 | 22.69 | 23.50              |                    |
|                                 |                 | MID       | QPSK       | 22.72      | 22.82 | 22.93 | 23.50              |                    |
|                                 |                 | HIGH      | QPSK       | 22.69      | 22.79 | 22.72 | 23.50              |                    |
|                                 | 3               | LOW       | QPSK       | 22.64      | 22.84 | 22.67 | 23.50              |                    |
|                                 |                 | MID       | QPSK       | 22.93      | 23.02 | 22.78 | 23.50              |                    |
|                                 |                 | HIGH      | QPSK       | 23.02      | 22.72 | 22.73 | 23.50              |                    |
|                                 | 6               | LOW       | QPSK       | 21.66      | 21.81 | 21.88 | 22.50              |                    |
|                                 | 1.4             | 1         | LOW        | Q16        | 21.96 | 21.88 | 21.82              | 22.50              |
|                                 |                 |           | MID        | Q16        | 21.95 | 21.74 | 21.93              | 22.50              |
| HIGH                            |                 |           | Q16        | 22.06      | 21.89 | 21.95 | 22.50              |                    |
| 3                               |                 | LOW       | Q16        | 21.56      | 21.71 | 21.86 | 22.50              |                    |
|                                 |                 | MID       | Q16        | 21.63      | 21.77 | 21.57 | 22.50              |                    |
|                                 |                 | HIGH      | Q16        | 21.81      | 21.51 | 21.82 | 22.50              |                    |
| 6                               |                 | LOW       | Q16        | 20.60      | 20.76 | 20.85 | 21.50              |                    |
| 1.4                             |                 | 1         | LOW        | 64QAM      | 21.00 | 20.81 | 20.82              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 20.73 | 20.82 | 20.63              | 21.50              |
|                                 | HIGH            |           | 64QAM      | 20.71      | 20.65 | 20.80 | 21.50              |                    |
|                                 | 3               | LOW       | 64QAM      | 20.52      | 20.71 | 20.73 | 21.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.84      | 20.70 | 20.85 | 21.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 20.54      | 20.53 | 20.54 | 21.50              |                    |
|                                 | 6               | LOW       | 64QAM      | 19.54      | 19.71 | 19.76 | 20.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18615 | 18900 | 19185              | Tune-up power(dBm) |
|                                 | 3               | 1         | LOW        | QPSK       | 22.58 | 22.76 | 22.98              | 23.50              |
| MID                             |                 |           | QPSK       | 22.81      | 22.81 | 22.68 | 23.50              |                    |
| HIGH                            |                 |           | QPSK       | 22.81      | 22.70 | 22.75 | 23.50              |                    |
| 8                               |                 | LOW       | QPSK       | 21.68      | 21.79 | 21.67 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 21.85      | 21.88 | 22.08 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.86      | 21.71 | 21.86 | 22.50              |                    |
| 15                              |                 | LOW       | QPSK       | 21.65      | 21.82 | 21.86 | 22.50              |                    |
| 3                               |                 | 1         | LOW        | Q16        | 21.82 | 21.82 | 22.10              | 22.50              |
|                                 |                 |           | MID        | Q16        | 21.73 | 21.77 | 21.52              | 22.50              |
|                                 | HIGH            |           | Q16        | 22.06      | 21.89 | 21.89 | 22.50              |                    |
|                                 | 8               | LOW       | Q16        | 20.62      | 20.64 | 20.61 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 20.49      | 20.68 | 20.64 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 20.79      | 20.75 | 20.76 | 21.50              |                    |
|                                 | 15              | LOW       | Q16        | 21.00      | 20.69 | 20.83 | 21.50              |                    |
|                                 | 3               | 1         | LOW        | 64QAM      | 20.56 | 20.63 | 20.79              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 20.92 | 21.02 | 20.68              | 21.50              |
| HIGH                            |                 |           | 64QAM      | 20.58      | 20.46 | 20.90 | 21.50              |                    |
| 8                               |                 | LOW       | 64QAM      | 19.85      | 19.84 | 19.92 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.04      | 19.96 | 19.75 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.78      | 19.63 | 19.86 | 20.50              |                    |
| 15                              |                 | LOW       | 64QAM      | 20.06      | 19.91 | 19.63 | 20.50              |                    |

| LTE B2-Full Power -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 18625      | 18900 | 19175 | Tune-up power(dBm) |                    |
| 5                               | 1               | LOW       | QPSK       | 22.63      | 22.67 | 22.86 | 23.50              |                    |
|                                 |                 | MID       | QPSK       | 22.87      | 22.73 | 22.74 | 23.50              |                    |
|                                 |                 | HIGH      | QPSK       | 22.82      | 22.76 | 22.86 | 23.50              |                    |
|                                 | 12              | LOW       | QPSK       | 21.83      | 21.94 | 21.63 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 22.04      | 22.03 | 22.01 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.82      | 21.82 | 21.91 | 22.50              |                    |
|                                 | 25              | LOW       | QPSK       | 21.67      | 21.90 | 21.95 | 22.50              |                    |
|                                 | 5               | 1         | LOW        | Q16        | 21.69 | 21.94 | 21.98              | 22.50              |
|                                 |                 |           | MID        | Q16        | 21.53 | 21.88 | 21.54              | 22.50              |
| HIGH                            |                 |           | Q16        | 21.96      | 21.97 | 22.09 | 22.50              |                    |
| 12                              |                 | LOW       | Q16        | 20.62      | 20.67 | 20.71 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 20.72      | 20.70 | 20.77 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 20.73      | 20.74 | 20.82 | 21.50              |                    |
| 25                              |                 | LOW       | Q16        | 20.93      | 20.59 | 21.04 | 21.50              |                    |
| 5                               |                 | 1         | LOW        | 64QAM      | 20.69 | 20.62 | 20.71              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 20.70 | 20.78 | 20.64              | 21.50              |
|                                 | HIGH            |           | 64QAM      | 20.60      | 20.48 | 20.90 | 21.50              |                    |
|                                 | 12              | LOW       | 64QAM      | 19.92      | 19.73 | 19.94 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 19.98      | 19.94 | 19.96 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.69      | 19.80 | 19.85 | 20.50              |                    |
|                                 | 25              | LOW       | 64QAM      | 20.03      | 19.79 | 19.79 | 20.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18650 | 18900 | 19150              | Tune-up power(dBm) |
|                                 | 10              | 1         | LOW        | QPSK       | 22.77 | 22.68 | 22.83              | 23.50              |
| MID                             |                 |           | QPSK       | 22.68      | 22.99 | 22.59 | 23.50              |                    |
| HIGH                            |                 |           | QPSK       | 22.87      | 22.61 | 22.63 | 23.50              |                    |
| 25                              |                 | LOW       | QPSK       | 21.95      | 21.88 | 21.82 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 22.01      | 21.86 | 21.89 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.70      | 21.83 | 21.68 | 22.50              |                    |
| 50                              |                 | LOW       | QPSK       | 21.84      | 21.63 | 21.85 | 22.50              |                    |
| 10                              |                 | 1         | LOW        | Q16        | 21.96 | 21.77 | 22.15              | 22.50              |
|                                 |                 |           | MID        | Q16        | 21.79 | 21.62 | 21.51              | 22.50              |
|                                 | HIGH            |           | Q16        | 22.10      | 22.05 | 22.07 | 22.50              |                    |
|                                 | 25              | LOW       | Q16        | 20.80      | 20.82 | 20.75 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 20.60      | 20.76 | 20.63 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 20.73      | 20.81 | 20.68 | 21.50              |                    |
|                                 | 50              | LOW       | Q16        | 20.81      | 20.45 | 20.92 | 21.50              |                    |
|                                 | 10              | 1         | LOW        | 64QAM      | 20.64 | 20.83 | 20.69              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 20.73 | 21.04 | 20.75              | 21.50              |
| HIGH                            |                 |           | 64QAM      | 20.75      | 20.57 | 21.01 | 21.50              |                    |
| 25                              |                 | LOW       | 64QAM      | 19.90      | 19.70 | 19.88 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.18      | 20.04 | 19.71 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.74      | 19.70 | 19.68 | 20.50              |                    |
| 50                              |                 | LOW       | 64QAM      | 19.94      | 19.89 | 19.76 | 20.50              |                    |

| LTE B2-Full Power -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 18675      | 18900 | 19125 | Tune-up power(dBm) |                    |
| 15                              | 1               | LOW       | QPSK       | 22.56      | 22.75 | 22.88 | 23.50              |                    |
|                                 |                 | MID       | QPSK       | 22.82      | 22.85 | 22.80 | 23.50              |                    |
|                                 |                 | HIGH      | QPSK       | 22.94      | 22.74 | 22.78 | 23.50              |                    |
|                                 | 36              | LOW       | QPSK       | 21.72      | 21.76 | 21.82 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 21.82      | 21.83 | 21.95 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.64      | 21.80 | 21.76 | 22.50              |                    |
|                                 | 75              | LOW       | QPSK       | 21.83      | 21.90 | 21.84 | 22.50              |                    |
|                                 | 15              | 1         | LOW        | Q16        | 21.76 | 21.83 | 21.86              | 22.50              |
|                                 |                 |           | MID        | Q16        | 21.76 | 21.75 | 21.67              | 22.50              |
| HIGH                            |                 |           | Q16        | 21.89      | 21.90 | 22.02 | 22.50              |                    |
| 36                              |                 | LOW       | Q16        | 20.77      | 20.68 | 20.76 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 20.48      | 20.74 | 20.91 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 20.80      | 20.62 | 20.61 | 21.50              |                    |
| 75                              |                 | LOW       | Q16        | 20.87      | 20.56 | 21.02 | 21.50              |                    |
| 15                              |                 | 1         | LOW        | 64QAM      | 20.69 | 20.74 | 20.85              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 20.73 | 20.94 | 20.88              | 21.50              |
|                                 | HIGH            |           | 64QAM      | 20.67      | 20.66 | 20.98 | 21.50              |                    |
|                                 | 36              | LOW       | 64QAM      | 20.00      | 19.83 | 19.85 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 19.88      | 20.18 | 19.89 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.82      | 19.82 | 19.70 | 20.50              |                    |
|                                 | 75              | LOW       | 64QAM      | 19.86      | 19.83 | 19.57 | 20.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18700 | 18900 | 19100              | Tune-up power(dBm) |
|                                 | 20              | 1         | LOW        | QPSK       | 22.68 | 22.78 | 22.93              | 23.50              |
| MID                             |                 |           | QPSK       | 22.80      | 22.85 | 22.74 | 23.50              |                    |
| HIGH                            |                 |           | QPSK       | 22.90      | 22.75 | 22.73 | 23.50              |                    |
| 50                              |                 | LOW       | QPSK       | 21.83      | 21.83 | 21.76 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 21.95      | 21.97 | 22.02 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.72      | 21.76 | 21.82 | 22.50              |                    |
| 100                             |                 | LOW       | QPSK       | 21.69      | 21.76 | 21.81 | 22.50              |                    |
| 20                              |                 | 1         | LOW        | Q16        | 21.82 | 21.82 | 22.01              | 22.50              |
|                                 |                 |           | MID        | Q16        | 21.66 | 21.77 | 21.65              | 22.50              |
|                                 | HIGH            |           | Q16        | 21.96      | 22.02 | 21.94 | 22.50              |                    |
|                                 | 50              | LOW       | Q16        | 20.75      | 20.79 | 20.61 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 20.61      | 20.75 | 20.76 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 20.76      | 20.71 | 20.72 | 21.50              |                    |
|                                 | 100             | LOW       | Q16        | 20.91      | 20.59 | 20.92 | 21.50              |                    |
|                                 | 20              | 1         | LOW        | 64QAM      | 20.58 | 20.72 | 20.73              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 20.82 | 20.91 | 20.78              | 21.50              |
| HIGH                            |                 |           | 64QAM      | 20.64      | 20.58 | 20.86 | 21.50              |                    |
| 50                              |                 | LOW       | 64QAM      | 19.87      | 19.85 | 19.98 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.03      | 20.03 | 19.85 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.78      | 19.75 | 19.82 | 20.50              |                    |
| 100                             |                 | LOW       | 64QAM      | 20.00      | 19.81 | 19.71 | 20.50              |                    |

| LTE B2-State1&3&5 -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 18607      | 18900 | 19193 | Tune-up power(dBm) |                    |
| 1.4                             | 1               | LOW       | QPSK       | 18.65      | 18.72 | 18.87 | 19.00              |                    |
|                                 |                 | MID       | QPSK       | 18.60      | 18.74 | 18.62 | 19.00              |                    |
|                                 |                 | HIGH      | QPSK       | 18.77      | 18.69 | 18.55 | 19.00              |                    |
|                                 | 3               | LOW       | QPSK       | 18.52      | 18.67 | 18.82 | 19.00              |                    |
|                                 |                 | MID       | QPSK       | 18.62      | 18.50 | 18.62 | 19.00              |                    |
|                                 |                 | HIGH      | QPSK       | 18.74      | 18.62 | 18.70 | 19.00              |                    |
|                                 | 6               | LOW       | QPSK       | 18.62      | 18.61 | 18.43 | 19.00              |                    |
|                                 | 1.4             | 1         | LOW        | Q16        | 18.82 | 18.78 | 18.73              | 19.00              |
|                                 |                 |           | MID        | Q16        | 18.93 | 18.61 | 18.71              | 19.00              |
| HIGH                            |                 |           | Q16        | 18.75      | 18.69 | 18.60 | 19.00              |                    |
| 3                               |                 | LOW       | Q16        | 18.63      | 18.62 | 18.82 | 19.00              |                    |
|                                 |                 | MID       | Q16        | 18.76      | 18.66 | 18.42 | 19.00              |                    |
|                                 |                 | HIGH      | Q16        | 18.51      | 18.44 | 18.73 | 19.00              |                    |
| 6                               |                 | LOW       | Q16        | 18.73      | 18.71 | 18.71 | 19.00              |                    |
| 1.4                             |                 | 1         | LOW        | 64QAM      | 18.64 | 18.72 | 18.77              | 19.00              |
|                                 |                 |           | MID        | 64QAM      | 18.81 | 18.89 | 18.77              | 19.00              |
|                                 | HIGH            |           | 64QAM      | 18.63      | 18.82 | 18.86 | 19.00              |                    |
|                                 | 3               | LOW       | 64QAM      | 18.47      | 18.64 | 18.50 | 19.00              |                    |
|                                 |                 | MID       | 64QAM      | 18.63      | 18.71 | 18.64 | 19.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 18.75      | 18.68 | 18.68 | 19.00              |                    |
|                                 | 6               | LOW       | 64QAM      | 18.63      | 18.65 | 18.61 | 19.00              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18615 | 18900 | 19185              | Tune-up power(dBm) |
|                                 | 3               | 1         | LOW        | QPSK       | 18.68 | 18.75 | 18.58              | 19.00              |
| MID                             |                 |           | QPSK       | 18.52      | 18.84 | 18.86 | 19.00              |                    |
| HIGH                            |                 |           | QPSK       | 18.67      | 18.62 | 18.70 | 19.00              |                    |
| 8                               |                 | LOW       | QPSK       | 18.97      | 18.65 | 18.78 | 19.00              |                    |
|                                 |                 | MID       | QPSK       | 18.68      | 18.84 | 18.89 | 19.00              |                    |
|                                 |                 | HIGH      | QPSK       | 18.66      | 18.79 | 18.67 | 19.00              |                    |
| 15                              |                 | LOW       | QPSK       | 18.68      | 18.53 | 18.45 | 19.00              |                    |
| 3                               |                 | 1         | LOW        | Q16        | 18.92 | 18.58 | 18.68              | 19.00              |
|                                 |                 |           | MID        | Q16        | 18.86 | 18.83 | 18.63              | 19.00              |
|                                 | HIGH            |           | Q16        | 18.79      | 18.75 | 18.62 | 19.00              |                    |
|                                 | 8               | LOW       | Q16        | 18.97      | 18.74 | 18.84 | 19.00              |                    |
|                                 |                 | MID       | Q16        | 18.57      | 18.66 | 18.60 | 19.00              |                    |
|                                 |                 | HIGH      | Q16        | 18.95      | 18.59 | 18.65 | 19.00              |                    |
|                                 | 15              | LOW       | Q16        | 18.70      | 18.93 | 18.92 | 19.00              |                    |
|                                 | 3               | 1         | LOW        | 64QAM      | 18.67 | 18.60 | 18.53              | 19.00              |
|                                 |                 |           | MID        | 64QAM      | 18.72 | 18.58 | 18.58              | 19.00              |
| HIGH                            |                 |           | 64QAM      | 18.65      | 18.88 | 18.45 | 19.00              |                    |
| 8                               |                 | LOW       | 64QAM      | 18.32      | 18.53 | 18.64 | 19.00              |                    |
|                                 |                 | MID       | 64QAM      | 18.39      | 18.66 | 18.55 | 19.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 18.30      | 18.58 | 18.43 | 19.00              |                    |
| 15                              |                 | LOW       | 64QAM      | 18.33      | 18.59 | 18.37 | 19.00              |                    |



| LTE B2-State1&3&5 -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 18625      | 18900 | 19175 | Tune-up power(dBm) |                    |
| 5                               | 1               | LOW       | QPSK       | 18.48      | 18.56 | 18.65 | 19.00              |                    |
|                                 |                 | MID       | QPSK       | 18.48      | 18.82 | 18.79 | 19.00              |                    |
|                                 |                 | HIGH      | QPSK       | 18.45      | 18.73 | 18.73 | 19.00              |                    |
|                                 | 12              | LOW       | QPSK       | 18.91      | 18.84 | 18.56 | 19.00              |                    |
|                                 |                 | MID       | QPSK       | 18.73      | 18.78 | 18.71 | 19.00              |                    |
|                                 |                 | HIGH      | QPSK       | 18.55      | 18.65 | 18.45 | 19.00              |                    |
|                                 | 25              | LOW       | QPSK       | 18.61      | 18.58 | 18.64 | 19.00              |                    |
|                                 | 5               | 1         | LOW        | Q16        | 18.88 | 18.67 | 18.94              | 19.00              |
|                                 |                 |           | MID        | Q16        | 18.77 | 18.82 | 18.78              | 19.00              |
| HIGH                            |                 |           | Q16        | 18.71      | 18.79 | 18.75 | 19.00              |                    |
| 12                              |                 | LOW       | Q16        | 18.91      | 18.80 | 18.93 | 19.00              |                    |
|                                 |                 | MID       | Q16        | 18.70      | 18.61 | 18.74 | 19.00              |                    |
|                                 |                 | HIGH      | Q16        | 18.90      | 18.79 | 18.80 | 19.00              |                    |
| 25                              |                 | LOW       | Q16        | 18.53      | 18.94 | 18.98 | 19.00              |                    |
| 5                               |                 | 1         | LOW        | 64QAM      | 18.57 | 18.57 | 18.49              | 19.00              |
|                                 |                 |           | MID        | 64QAM      | 18.70 | 18.48 | 18.58              | 19.00              |
|                                 | HIGH            |           | 64QAM      | 18.75      | 18.69 | 18.39 | 19.00              |                    |
|                                 | 12              | LOW       | 64QAM      | 18.55      | 18.60 | 18.59 | 19.00              |                    |
|                                 |                 | MID       | 64QAM      | 18.39      | 18.80 | 18.76 | 19.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 18.35      | 18.60 | 18.34 | 19.00              |                    |
|                                 | 25              | LOW       | 64QAM      | 18.42      | 18.43 | 18.23 | 19.00              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18650 | 18900 | 19150              | Tune-up power(dBm) |
|                                 | 10              | 1         | LOW        | QPSK       | 18.49 | 18.76 | 18.52              | 19.00              |
| MID                             |                 |           | QPSK       | 18.61      | 18.68 | 18.84 | 19.00              |                    |
| HIGH                            |                 |           | QPSK       | 18.43      | 18.76 | 18.74 | 19.00              |                    |
| 25                              |                 | LOW       | QPSK       | 18.68      | 18.82 | 18.67 | 19.00              |                    |
|                                 |                 | MID       | QPSK       | 18.83      | 18.92 | 18.74 | 19.00              |                    |
|                                 |                 | HIGH      | QPSK       | 18.40      | 18.92 | 18.48 | 19.00              |                    |
| 50                              | LOW             | QPSK      | 18.64      | 18.75      | 18.42 | 19.00 |                    |                    |
| 10                              | 1               | LOW       | Q16        | 18.91      | 18.65 | 18.95 | 19.00              |                    |
|                                 |                 | MID       | Q16        | 18.87      | 18.69 | 18.66 | 19.00              |                    |
|                                 |                 | HIGH      | Q16        | 18.70      | 18.75 | 18.68 | 19.00              |                    |
|                                 | 25              | LOW       | Q16        | 18.87      | 18.75 | 18.77 | 19.00              |                    |
|                                 |                 | MID       | Q16        | 18.52      | 18.81 | 18.64 | 19.00              |                    |
|                                 |                 | HIGH      | Q16        | 18.70      | 18.62 | 18.88 | 19.00              |                    |
| 50                              | LOW             | Q16       | 18.68      | 18.77      | 18.78 | 19.00 |                    |                    |
| 10                              | 1               | LOW       | 64QAM      | 18.68      | 18.54 | 18.49 | 19.00              |                    |
|                                 |                 | MID       | 64QAM      | 18.58      | 18.48 | 18.82 | 19.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 18.88      | 18.71 | 18.59 | 19.00              |                    |
|                                 | 25              | LOW       | 64QAM      | 18.40      | 18.35 | 18.61 | 19.00              |                    |
|                                 |                 | MID       | 64QAM      | 18.39      | 18.70 | 18.64 | 19.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 18.27      | 18.62 | 18.50 | 19.00              |                    |
| 50                              | LOW             | 64QAM     | 18.34      | 18.47      | 18.48 | 19.00 |                    |                    |

| LTE B2-State1&3&5 -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 18675      | 18900 | 19125 | Tune-up power(dBm) |                    |
| 15                              | 1               | LOW       | QPSK       | 18.45      | 18.82 | 18.52 | 19.00              |                    |
|                                 |                 | MID       | QPSK       | 18.52      | 18.68 | 18.82 | 19.00              |                    |
|                                 |                 | HIGH      | QPSK       | 18.67      | 18.67 | 18.57 | 19.00              |                    |
|                                 | 36              | LOW       | QPSK       | 18.89      | 18.69 | 18.71 | 19.00              |                    |
|                                 |                 | MID       | QPSK       | 18.75      | 18.91 | 18.83 | 19.00              |                    |
|                                 |                 | HIGH      | QPSK       | 18.58      | 18.77 | 18.60 | 19.00              |                    |
|                                 | 75              | LOW       | QPSK       | 18.47      | 18.64 | 18.61 | 19.00              |                    |
|                                 | 15              | 1         | LOW        | Q16        | 18.77 | 18.70 | 18.79              | 19.00              |
|                                 |                 |           | MID        | Q16        | 18.84 | 18.71 | 18.67              | 19.00              |
| HIGH                            |                 |           | Q16        | 18.80      | 18.76 | 18.67 | 19.00              |                    |
| 36                              |                 | LOW       | Q16        | 18.77      | 18.83 | 18.84 | 19.00              |                    |
|                                 |                 | MID       | Q16        | 18.78      | 18.59 | 18.61 | 19.00              |                    |
|                                 |                 | HIGH      | Q16        | 18.99      | 18.70 | 18.70 | 19.00              |                    |
| 75                              |                 | LOW       | Q16        | 18.59      | 18.84 | 18.78 | 19.00              |                    |
| 15                              |                 | 1         | LOW        | 64QAM      | 18.60 | 18.54 | 18.50              | 19.00              |
|                                 |                 |           | MID        | 64QAM      | 18.79 | 18.65 | 18.85              | 19.00              |
|                                 | HIGH            |           | 64QAM      | 18.71      | 18.86 | 18.41 | 19.00              |                    |
|                                 | 36              | LOW       | 64QAM      | 18.60      | 18.44 | 18.46 | 19.00              |                    |
|                                 |                 | MID       | 64QAM      | 18.53      | 18.70 | 18.72 | 19.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 18.33      | 18.47 | 18.44 | 19.00              |                    |
|                                 | 75              | LOW       | 64QAM      | 18.25      | 18.50 | 18.26 | 19.00              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18700 | 18900 | 19100              | Tune-up power(dBm) |
|                                 | 20              | 1         | LOW        | QPSK       | 18.53 | 18.67 | 18.61              | 19.00              |
| MID                             |                 |           | QPSK       | 18.61      | 18.72 | 18.83 | 19.00              |                    |
| HIGH                            |                 |           | QPSK       | 18.54      | 18.66 | 18.62 | 19.00              |                    |
| 50                              |                 | LOW       | QPSK       | 18.82      | 18.72 | 18.63 | 19.00              |                    |
|                                 |                 | MID       | QPSK       | 18.69      | 18.77 | 18.77 | 19.00              |                    |
|                                 |                 | HIGH      | QPSK       | 18.55      | 18.80 | 18.53 | 19.00              |                    |
| 100                             | LOW             | QPSK      | 18.58      | 18.64      | 18.57 | 19.00 |                    |                    |
| 20                              | 1               | LOW       | Q16        | 18.81      | 18.72 | 18.81 | 19.00              |                    |
|                                 |                 | MID       | Q16        | 18.77      | 18.69 | 18.77 | 19.00              |                    |
|                                 |                 | HIGH      | Q16        | 18.67      | 18.83 | 18.65 | 19.00              |                    |
|                                 | 50              | LOW       | Q16        | 18.91      | 18.71 | 18.87 | 19.00              |                    |
|                                 |                 | MID       | Q16        | 18.67      | 18.66 | 18.63 | 19.00              |                    |
|                                 |                 | HIGH      | Q16        | 18.84      | 18.71 | 18.80 | 19.00              |                    |
| 100                             | LOW             | Q16       | 18.68      | 18.85      | 18.91 | 19.00 |                    |                    |
| 20                              | 1               | LOW       | 64QAM      | 18.55      | 18.65 | 18.45 | 19.00              |                    |
|                                 |                 | MID       | 64QAM      | 18.71      | 18.62 | 18.73 | 19.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 18.73      | 18.74 | 18.49 | 19.00              |                    |
|                                 | 50              | LOW       | 64QAM      | 18.45      | 18.45 | 18.55 | 19.00              |                    |
|                                 |                 | MID       | 64QAM      | 18.44      | 18.65 | 18.65 | 19.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 18.30      | 18.54 | 18.44 | 19.00              |                    |
| 100                             | LOW             | 64QAM     | 18.37      | 18.46      | 18.37 | 19.00 |                    |                    |

| LTE B2-State2&4&6 -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 18607      | 18900 | 19193 | Tune-up power(dBm) |                    |
| 1.4                             | 1               | LOW       | QPSK       | 16.75      | 16.84 | 16.76 | 17.50              |                    |
|                                 |                 | MID       | QPSK       | 16.82      | 16.80 | 16.68 | 17.50              |                    |
|                                 |                 | HIGH      | QPSK       | 16.76      | 16.76 | 16.84 | 17.50              |                    |
|                                 | 3               | LOW       | QPSK       | 16.89      | 16.82 | 16.65 | 17.50              |                    |
|                                 |                 | MID       | QPSK       | 16.83      | 16.96 | 16.77 | 17.50              |                    |
|                                 |                 | HIGH      | QPSK       | 16.73      | 16.63 | 16.65 | 17.50              |                    |
|                                 | 6               | LOW       | QPSK       | 16.98      | 16.79 | 16.73 | 17.50              |                    |
|                                 | 1.4             | 1         | LOW        | Q16        | 17.05 | 16.90 | 16.88              | 17.50              |
|                                 |                 |           | MID        | Q16        | 16.91 | 16.94 | 16.72              | 17.50              |
| HIGH                            |                 |           | Q16        | 16.82      | 16.98 | 16.83 | 17.50              |                    |
| 3                               |                 | LOW       | Q16        | 16.63      | 16.77 | 16.83 | 17.50              |                    |
|                                 |                 | MID       | Q16        | 16.78      | 16.85 | 16.95 | 17.50              |                    |
|                                 |                 | HIGH      | Q16        | 16.58      | 16.76 | 16.64 | 17.50              |                    |
| 6                               |                 | LOW       | Q16        | 16.87      | 16.82 | 16.62 | 17.50              |                    |
| 1.4                             |                 | 1         | LOW        | 64QAM      | 16.82 | 16.84 | 16.96              | 17.50              |
|                                 |                 |           | MID        | 64QAM      | 16.94 | 17.04 | 16.75              | 17.50              |
|                                 | HIGH            |           | 64QAM      | 17.01      | 16.99 | 16.74 | 17.50              |                    |
|                                 | 3               | LOW       | 64QAM      | 16.95      | 16.78 | 16.95 | 17.50              |                    |
|                                 |                 | MID       | 64QAM      | 16.85      | 16.67 | 16.77 | 17.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 16.66      | 16.77 | 16.91 | 17.50              |                    |
|                                 | 6               | LOW       | 64QAM      | 16.86      | 16.81 | 17.00 | 17.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18615 | 18900 | 19185              | Tune-up power(dBm) |
|                                 | 3               | 1         | LOW        | QPSK       | 16.97 | 16.85 | 16.86              | 17.50              |
| MID                             |                 |           | QPSK       | 16.89      | 16.80 | 16.76 | 17.50              |                    |
| HIGH                            |                 |           | QPSK       | 16.82      | 16.66 | 16.83 | 17.50              |                    |
| 8                               |                 | LOW       | QPSK       | 16.60      | 16.78 | 16.70 | 17.50              |                    |
|                                 |                 | MID       | QPSK       | 16.65      | 16.64 | 16.99 | 17.50              |                    |
|                                 |                 | HIGH      | QPSK       | 16.83      | 16.54 | 17.00 | 17.50              |                    |
| 15                              |                 | LOW       | QPSK       | 16.60      | 16.89 | 16.87 | 17.50              |                    |
| 3                               |                 | 1         | LOW        | Q16        | 16.96 | 16.72 | 16.89              | 17.50              |
|                                 |                 |           | MID        | Q16        | 16.68 | 16.66 | 17.08              | 17.50              |
|                                 | HIGH            |           | Q16        | 17.01      | 16.82 | 16.79 | 17.50              |                    |
|                                 | 8               | LOW       | Q16        | 16.69      | 16.67 | 16.78 | 17.50              |                    |
|                                 |                 | MID       | Q16        | 16.63      | 16.92 | 16.64 | 17.50              |                    |
|                                 |                 | HIGH      | Q16        | 17.09      | 16.89 | 16.90 | 17.50              |                    |
|                                 | 15              | LOW       | Q16        | 16.84      | 16.74 | 16.97 | 17.50              |                    |
|                                 | 3               | 1         | LOW        | 64QAM      | 16.71 | 16.77 | 16.62              | 17.50              |
|                                 |                 |           | MID        | 64QAM      | 16.88 | 16.98 | 16.61              | 17.50              |
| HIGH                            |                 |           | 64QAM      | 16.91      | 16.78 | 16.82 | 17.50              |                    |
| 8                               |                 | LOW       | 64QAM      | 16.56      | 16.53 | 16.64 | 17.50              |                    |
|                                 |                 | MID       | 64QAM      | 16.64      | 16.77 | 16.71 | 17.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 16.80      | 16.82 | 16.78 | 17.50              |                    |
| 15                              |                 | LOW       | 64QAM      | 16.51      | 16.62 | 16.49 | 17.50              |                    |

| LTE B2-State2&4&6 -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 18625      | 18900 | 19175 | Tune-up power(dBm) |                    |
| 5                               | 1               | LOW       | QPSK       | 16.91      | 16.96 | 16.77 | 17.50              |                    |
|                                 |                 | MID       | QPSK       | 16.93      | 16.88 | 16.82 | 17.50              |                    |
|                                 |                 | HIGH      | QPSK       | 16.79      | 16.91 | 16.88 | 17.50              |                    |
|                                 | 12              | LOW       | QPSK       | 16.64      | 16.77 | 16.67 | 17.50              |                    |
|                                 |                 | MID       | QPSK       | 16.61      | 16.74 | 16.86 | 17.50              |                    |
|                                 |                 | HIGH      | QPSK       | 16.97      | 16.66 | 16.80 | 17.50              |                    |
|                                 | 25              | LOW       | QPSK       | 16.68      | 16.95 | 16.64 | 17.50              |                    |
|                                 | 5               | 1         | LOW        | Q16        | 16.84 | 16.92 | 16.96              | 17.50              |
|                                 |                 |           | MID        | Q16        | 16.71 | 16.84 | 17.05              | 17.50              |
| HIGH                            |                 |           | Q16        | 17.05      | 16.85 | 16.79 | 17.50              |                    |
| 12                              |                 | LOW       | Q16        | 16.63      | 16.84 | 16.72 | 17.50              |                    |
|                                 |                 | MID       | Q16        | 16.69      | 16.88 | 16.63 | 17.50              |                    |
|                                 |                 | HIGH      | Q16        | 17.07      | 16.80 | 16.88 | 17.50              |                    |
| 25                              |                 | LOW       | Q16        | 16.70      | 16.79 | 16.74 | 17.50              |                    |
| 5                               |                 | 1         | LOW        | 64QAM      | 16.73 | 16.88 | 16.55              | 17.50              |
|                                 |                 |           | MID        | 64QAM      | 17.02 | 17.05 | 16.66              | 17.50              |
|                                 | HIGH            |           | 64QAM      | 16.97      | 16.83 | 17.00 | 17.50              |                    |
|                                 | 12              | LOW       | 64QAM      | 16.78      | 16.64 | 16.49 | 17.50              |                    |
|                                 |                 | MID       | 64QAM      | 16.51      | 16.60 | 16.71 | 17.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 16.65      | 16.70 | 16.87 | 17.50              |                    |
|                                 | 25              | LOW       | 64QAM      | 16.59      | 16.55 | 16.47 | 17.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18650 | 18900 | 19150              | Tune-up power(dBm) |
|                                 | 10              | 1         | LOW        | QPSK       | 17.04 | 16.99 | 16.71              | 17.50              |
| MID                             |                 |           | QPSK       | 16.81      | 16.78 | 16.72 | 17.50              |                    |
| HIGH                            |                 |           | QPSK       | 16.81      | 16.91 | 16.79 | 17.50              |                    |
| 25                              |                 | LOW       | QPSK       | 16.76      | 16.61 | 16.72 | 17.50              |                    |
|                                 |                 | MID       | QPSK       | 16.59      | 16.61 | 16.99 | 17.50              |                    |
|                                 |                 | HIGH      | QPSK       | 16.72      | 16.71 | 16.74 | 17.50              |                    |
| 50                              | LOW             | QPSK      | 16.64      | 16.82      | 16.79 | 17.50 |                    |                    |
| 10                              | 1               | LOW       | Q16        | 16.87      | 16.89 | 17.06 | 17.50              |                    |
|                                 |                 | MID       | Q16        | 16.59      | 16.69 | 17.05 | 17.50              |                    |
|                                 |                 | HIGH      | Q16        | 16.97      | 16.61 | 16.96 | 17.50              |                    |
|                                 | 25              | LOW       | Q16        | 16.78      | 16.74 | 16.77 | 17.50              |                    |
|                                 |                 | MID       | Q16        | 16.58      | 16.80 | 16.69 | 17.50              |                    |
|                                 |                 | HIGH      | Q16        | 16.85      | 16.91 | 16.73 | 17.50              |                    |
| 50                              | LOW             | Q16       | 16.68      | 16.80      | 17.01 | 17.50 |                    |                    |
| 10                              | 1               | LOW       | 64QAM      | 16.90      | 16.77 | 16.55 | 17.50              |                    |
|                                 |                 | MID       | 64QAM      | 16.85      | 16.87 | 16.75 | 17.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 16.77      | 17.03 | 17.04 | 17.50              |                    |
|                                 | 25              | LOW       | 64QAM      | 16.60      | 16.49 | 16.53 | 17.50              |                    |
|                                 |                 | MID       | 64QAM      | 16.46      | 16.80 | 16.48 | 17.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 16.80      | 16.88 | 16.62 | 17.50              |                    |
| 50                              | LOW             | 64QAM     | 16.57      | 16.57      | 16.34 | 17.50 |                    |                    |

| LTE B2-State2&4&6 -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 18675      | 18900 | 19125 | Tune-up power(dBm) |                    |
| 15                              | 1               | LOW       | QPSK       | 16.80      | 16.78 | 16.81 | 17.50              |                    |
|                                 |                 | MID       | QPSK       | 16.72      | 16.81 | 16.82 | 17.50              |                    |
|                                 |                 | HIGH      | QPSK       | 16.92      | 16.86 | 16.98 | 17.50              |                    |
|                                 | 36              | LOW       | QPSK       | 16.84      | 16.62 | 16.75 | 17.50              |                    |
|                                 |                 | MID       | QPSK       | 16.73      | 16.62 | 16.80 | 17.50              |                    |
|                                 |                 | HIGH      | QPSK       | 16.68      | 16.72 | 16.97 | 17.50              |                    |
|                                 | 75              | LOW       | QPSK       | 16.60      | 16.95 | 16.75 | 17.50              |                    |
|                                 | 15              | 1         | LOW        | Q16        | 16.96 | 16.88 | 17.04              | 17.50              |
|                                 |                 |           | MID        | Q16        | 16.86 | 16.56 | 17.13              | 17.50              |
| HIGH                            |                 |           | Q16        | 17.10      | 16.58 | 16.79 | 17.50              |                    |
| 36                              |                 | LOW       | Q16        | 16.80      | 16.85 | 16.95 | 17.50              |                    |
|                                 |                 | MID       | Q16        | 16.64      | 16.85 | 16.65 | 17.50              |                    |
|                                 |                 | HIGH      | Q16        | 17.02      | 16.90 | 16.75 | 17.50              |                    |
| 75                              |                 | LOW       | Q16        | 16.81      | 16.80 | 16.97 | 17.50              |                    |
| 15                              |                 | 1         | LOW        | 64QAM      | 16.79 | 16.90 | 16.53              | 17.50              |
|                                 |                 |           | MID        | 64QAM      | 16.95 | 17.00 | 16.48              | 17.50              |
|                                 | HIGH            |           | 64QAM      | 16.75      | 17.02 | 16.81 | 17.50              |                    |
|                                 | 36              | LOW       | 64QAM      | 16.70      | 16.57 | 16.58 | 17.50              |                    |
|                                 |                 | MID       | 64QAM      | 16.46      | 16.81 | 16.60 | 17.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 16.77      | 16.77 | 16.85 | 17.50              |                    |
|                                 | 75              | LOW       | 64QAM      | 16.49      | 16.57 | 16.35 | 17.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 18700 | 18900 | 19100              | Tune-up power(dBm) |
|                                 | 20              | 1         | LOW        | QPSK       | 16.89 | 16.87 | 16.76              | 17.50              |
| MID                             |                 |           | QPSK       | 16.86      | 16.80 | 16.80 | 17.50              |                    |
| HIGH                            |                 |           | QPSK       | 16.91      | 16.78 | 16.92 | 17.50              |                    |
| 50                              |                 | LOW       | QPSK       | 16.69      | 16.75 | 16.67 | 17.50              |                    |
|                                 |                 | MID       | QPSK       | 16.69      | 16.65 | 16.90 | 17.50              |                    |
|                                 |                 | HIGH      | QPSK       | 16.83      | 16.58 | 16.87 | 17.50              |                    |
| 100                             | LOW             | QPSK      | 16.75      | 16.82      | 16.73 | 17.50 |                    |                    |
| 20                              | 1               | LOW       | Q16        | 16.97      | 16.87 | 16.92 | 17.50              |                    |
|                                 |                 | MID       | Q16        | 16.73      | 16.71 | 17.03 | 17.50              |                    |
|                                 |                 | HIGH      | Q16        | 17.06      | 16.73 | 16.84 | 17.50              |                    |
|                                 | 50              | LOW       | Q16        | 16.66      | 16.82 | 16.80 | 17.50              |                    |
|                                 |                 | MID       | Q16        | 16.71      | 16.81 | 16.75 | 17.50              |                    |
|                                 |                 | HIGH      | Q16        | 16.99      | 16.85 | 16.77 | 17.50              |                    |
| 100                             | LOW             | Q16       | 16.77      | 16.71      | 16.89 | 17.50 |                    |                    |
| 20                              | 1               | LOW       | 64QAM      | 16.79      | 16.78 | 16.61 | 17.50              |                    |
|                                 |                 | MID       | 64QAM      | 16.97      | 16.96 | 16.61 | 17.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 16.87      | 16.93 | 16.93 | 17.50              |                    |
|                                 | 50              | LOW       | 64QAM      | 16.69      | 16.61 | 16.55 | 17.50              |                    |
|                                 |                 | MID       | 64QAM      | 16.54      | 16.72 | 16.59 | 17.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 16.71      | 16.74 | 16.77 | 17.50              |                    |
| 100                             | LOW             | 64QAM     | 16.54      | 16.69      | 16.42 | 17.50 |                    |                    |

### 8.3.2 LTE Band5 Output Power

| LTE B5-Full Power -Ant.0 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20407      | 20525 | 20643 | Tune-up power(dBm) |                    |
| 1.4                             | 1         | LOW       | QPSK       | 23.44      | 23.37 | 23.36 | 24.50              |                    |
|                                 |           | MID       | QPSK       | 23.27      | 23.38 | 23.45 | 24.50              |                    |
|                                 |           | HIGH      | QPSK       | 23.47      | 23.33 | 23.21 | 24.50              |                    |
|                                 | 3         | LOW       | QPSK       | 23.42      | 23.40 | 23.50 | 24.50              |                    |
|                                 |           | MID       | QPSK       | 23.27      | 23.54 | 23.54 | 24.50              |                    |
|                                 |           | HIGH      | QPSK       | 23.46      | 23.29 | 23.50 | 24.50              |                    |
|                                 | 6         | LOW       | QPSK       | 22.27      | 22.37 | 22.42 | 23.50              |                    |
|                                 | 1.4       | 1         | LOW        | Q16        | 22.29 | 22.43 | 22.56              | 23.50              |
|                                 |           |           | MID        | Q16        | 22.58 | 22.59 | 22.38              | 23.50              |
| HIGH                            |           |           | Q16        | 22.29      | 22.44 | 22.36 | 23.50              |                    |
| 3                               |           | LOW       | Q16        | 22.48      | 22.31 | 22.33 | 23.50              |                    |
|                                 |           | MID       | Q16        | 22.20      | 22.19 | 22.23 | 23.50              |                    |
|                                 |           | HIGH      | Q16        | 22.43      | 22.49 | 22.49 | 23.50              |                    |
| 6                               |           | LOW       | Q16        | 21.20      | 21.32 | 21.31 | 22.50              |                    |
| 1.4                             |           | 1         | LOW        | 64QAM      | 21.20 | 21.34 | 21.25              | 22.50              |
|                                 |           |           | MID        | 64QAM      | 21.22 | 21.53 | 21.37              | 22.50              |
|                                 | HIGH      |           | 64QAM      | 21.15      | 21.25 | 21.35 | 22.50              |                    |
|                                 | 3         | LOW       | 64QAM      | 21.39      | 21.30 | 21.34 | 22.50              |                    |
|                                 |           | MID       | 64QAM      | 21.48      | 21.10 | 21.22 | 22.50              |                    |
|                                 |           | HIGH      | 64QAM      | 21.18      | 21.39 | 21.20 | 22.50              |                    |
|                                 | 6         | LOW       | 64QAM      | 20.40      | 20.27 | 20.22 | 21.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20415 | 20525 | 20635              | Tune-up power(dBm) |
|                                 | 3         | 1         | LOW        | QPSK       | 23.44 | 23.55 | 23.25              | 24.50              |
| MID                             |           |           | QPSK       | 23.50      | 23.28 | 23.23 | 24.50              |                    |
| HIGH                            |           |           | QPSK       | 23.36      | 23.36 | 23.46 | 24.50              |                    |
| 8                               |           | LOW       | QPSK       | 22.46      | 22.36 | 22.51 | 23.50              |                    |
|                                 |           | MID       | QPSK       | 22.36      | 22.47 | 22.10 | 23.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.20      | 22.31 | 22.49 | 23.50              |                    |
| 15                              |           | LOW       | QPSK       | 22.20      | 22.41 | 22.24 | 23.50              |                    |
| 3                               |           | 1         | LOW        | Q16        | 22.37 | 22.62 | 22.72              | 23.50              |
|                                 |           |           | MID        | Q16        | 22.66 | 22.61 | 22.37              | 23.50              |
|                                 | HIGH      |           | Q16        | 22.45      | 22.43 | 22.68 | 23.50              |                    |
|                                 | 8         | LOW       | Q16        | 21.29      | 21.28 | 21.10 | 22.50              |                    |
|                                 |           | MID       | Q16        | 21.62      | 21.46 | 21.31 | 22.50              |                    |
|                                 |           | HIGH      | Q16        | 21.46      | 21.63 | 21.56 | 22.50              |                    |
|                                 | 15        | LOW       | Q16        | 21.72      | 21.43 | 21.40 | 22.50              |                    |
|                                 | 3         | 1         | LOW        | 64QAM      | 21.05 | 21.44 | 21.36              | 22.50              |
|                                 |           |           | MID        | 64QAM      | 21.50 | 21.40 | 21.40              | 22.50              |
| HIGH                            |           |           | 64QAM      | 21.34      | 21.40 | 21.34 | 22.50              |                    |
| 8                               |           | LOW       | 64QAM      | 20.11      | 20.29 | 20.32 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 20.27      | 20.11 | 20.48 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.15      | 19.93 | 20.25 | 21.50              |                    |
| 15                              |           | LOW       | 64QAM      | 19.91      | 19.98 | 20.33 | 21.50              |                    |

| LTE B5-Full Power -Ant.0 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20425      | 20525 | 20625 | Tune-up power(dBm) |                    |
| 5                               | 1         | LOW       | QPSK       | 23.22      | 23.40 | 23.26 | 24.50              |                    |
|                                 |           | MID       | QPSK       | 23.41      | 23.35 | 23.39 | 24.50              |                    |
|                                 |           | HIGH      | QPSK       | 23.28      | 23.54 | 23.38 | 24.50              |                    |
|                                 | 12        | LOW       | QPSK       | 22.47      | 22.43 | 22.63 | 23.50              |                    |
|                                 |           | MID       | QPSK       | 22.36      | 22.36 | 22.11 | 23.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.15      | 22.34 | 22.51 | 23.50              |                    |
|                                 | 25        | LOW       | QPSK       | 22.30      | 22.38 | 22.36 | 23.50              |                    |
|                                 | 5         | 1         | LOW        | Q16        | 22.60 | 22.64 | 22.50              | 23.50              |
|                                 |           |           | MID        | Q16        | 22.60 | 22.68 | 22.66              | 23.50              |
| HIGH                            |           |           | Q16        | 22.41      | 22.38 | 22.46 | 23.50              |                    |
| 12                              |           | LOW       | Q16        | 21.29      | 21.26 | 21.03 | 22.50              |                    |
|                                 |           | MID       | Q16        | 21.42      | 21.52 | 21.24 | 22.50              |                    |
|                                 |           | HIGH      | Q16        | 21.56      | 21.63 | 21.48 | 22.50              |                    |
| 25                              |           | LOW       | Q16        | 21.49      | 21.54 | 21.39 | 22.50              |                    |
| 5                               |           | 1         | LOW        | 64QAM      | 21.12 | 21.37 | 21.45              | 22.50              |
|                                 |           |           | MID        | 64QAM      | 21.34 | 21.31 | 21.25              | 22.50              |
|                                 | HIGH      |           | 64QAM      | 21.31      | 21.38 | 21.22 | 22.50              |                    |
|                                 | 12        | LOW       | 64QAM      | 20.07      | 20.24 | 20.19 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 20.29      | 20.19 | 20.53 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.01      | 20.14 | 20.06 | 21.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 19.87      | 19.94 | 20.21 | 21.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20450 | 20525 | 20600              | Tune-up power(dBm) |
|                                 | 10        | 1         | LOW        | QPSK       | 23.31 | 23.43 | 23.40              | 24.50              |
| MID                             |           |           | QPSK       | 23.47      | 23.42 | 23.32 | 24.50              |                    |
| HIGH                            |           |           | QPSK       | 23.39      | 23.40 | 23.34 | 24.50              |                    |
| 25                              |           | LOW       | QPSK       | 22.39      | 22.38 | 22.51 | 23.50              |                    |
|                                 |           | MID       | QPSK       | 22.32      | 22.46 | 22.19 | 23.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.19      | 22.21 | 22.50 | 23.50              |                    |
| 50                              | LOW       | QPSK      | 22.26      | 22.41      | 22.30 | 23.50 |                    |                    |
| 10                              | 1         | LOW       | Q16        | 22.51      | 22.49 | 22.57 | 23.50              |                    |
|                                 |           | MID       | Q16        | 22.60      | 22.65 | 22.52 | 23.50              |                    |
|                                 |           | HIGH      | Q16        | 22.30      | 22.44 | 22.53 | 23.50              |                    |
|                                 | 25        | LOW       | Q16        | 21.31      | 21.37 | 21.17 | 22.50              |                    |
|                                 |           | MID       | Q16        | 21.49      | 21.51 | 21.36 | 22.50              |                    |
|                                 |           | HIGH      | Q16        | 21.53      | 21.54 | 21.56 | 22.50              |                    |
| 50                              | LOW       | Q16       | 21.57      | 21.43      | 21.39 | 22.50 |                    |                    |
| 10                              | 1         | LOW       | 64QAM      | 21.20      | 21.38 | 21.30 | 22.50              |                    |
|                                 |           | MID       | 64QAM      | 21.45      | 21.41 | 21.31 | 22.50              |                    |
|                                 |           | HIGH      | 64QAM      | 21.46      | 21.36 | 21.29 | 22.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 20.08      | 20.18 | 20.27 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 20.32      | 20.20 | 20.38 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.10      | 20.06 | 20.17 | 21.50              |                    |
| 50                              | LOW       | 64QAM     | 20.02      | 20.03      | 20.27 | 21.50 |                    |                    |

| LTE B5-State1&3&5 -Ant.0 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20407      | 20525 | 20643 | Tune-up power(dBm) |                    |
| 1.4                             | 1         | LOW       | QPSK       | 20.69      | 20.82 | 20.79 | 21.50              |                    |
|                                 |           | MID       | QPSK       | 20.91      | 20.86 | 20.88 | 21.50              |                    |
|                                 |           | HIGH      | QPSK       | 21.04      | 20.90 | 21.03 | 21.50              |                    |
|                                 | 3         | LOW       | QPSK       | 20.81      | 20.87 | 20.92 | 21.50              |                    |
|                                 |           | MID       | QPSK       | 21.02      | 20.94 | 20.77 | 21.50              |                    |
|                                 |           | HIGH      | QPSK       | 21.06      | 21.05 | 20.80 | 21.50              |                    |
|                                 | 6         | LOW       | QPSK       | 20.71      | 20.88 | 20.83 | 21.50              |                    |
|                                 | 1.4       | 1         | LOW        | Q16        | 20.77 | 20.91 | 20.95              | 21.50              |
|                                 |           |           | MID        | Q16        | 21.06 | 21.05 | 20.74              | 21.50              |
| HIGH                            |           |           | Q16        | 20.74      | 20.74 | 20.79 | 21.50              |                    |
| 3                               |           | LOW       | Q16        | 20.91      | 20.76 | 20.60 | 21.50              |                    |
|                                 |           | MID       | Q16        | 20.60      | 20.72 | 20.71 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 20.90      | 20.92 | 20.56 | 21.50              |                    |
| 6                               |           | LOW       | Q16        | 20.86      | 20.82 | 20.82 | 21.50              |                    |
| 1.4                             |           | 1         | LOW        | 64QAM      | 20.82 | 20.86 | 20.70              | 21.50              |
|                                 |           |           | MID        | 64QAM      | 20.86 | 20.78 | 20.83              | 21.50              |
|                                 | HIGH      |           | 64QAM      | 20.66      | 21.05 | 20.91 | 21.50              |                    |
|                                 | 3         | LOW       | 64QAM      | 20.97      | 20.79 | 20.88 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 20.99      | 20.80 | 20.94 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.95      | 20.81 | 20.59 | 21.50              |                    |
|                                 | 6         | LOW       | 64QAM      | 20.41      | 20.30 | 20.18 | 21.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20415 | 20525 | 20635              | Tune-up power(dBm) |
|                                 | 3         | 1         | LOW        | QPSK       | 20.94 | 20.84 | 20.70              | 21.50              |
| MID                             |           |           | QPSK       | 20.85      | 20.90 | 21.10 | 21.50              |                    |
| HIGH                            |           |           | QPSK       | 20.77      | 20.83 | 20.93 | 21.50              |                    |
| 8                               |           | LOW       | QPSK       | 20.77      | 20.93 | 20.93 | 21.50              |                    |
|                                 |           | MID       | QPSK       | 20.77      | 20.72 | 20.73 | 21.50              |                    |
|                                 |           | HIGH      | QPSK       | 21.00      | 20.80 | 21.10 | 21.50              |                    |
| 15                              |           | LOW       | QPSK       | 20.92      | 20.92 | 20.83 | 21.50              |                    |
| 3                               |           | 1         | LOW        | Q16        | 21.25 | 20.87 | 20.98              | 21.50              |
|                                 |           |           | MID        | Q16        | 20.96 | 20.98 | 20.87              | 21.50              |
|                                 | HIGH      |           | Q16        | 21.25      | 21.14 | 20.91 | 21.50              |                    |
|                                 | 8         | LOW       | Q16        | 20.77      | 20.76 | 20.94 | 21.50              |                    |
|                                 |           | MID       | Q16        | 20.92      | 21.08 | 20.96 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 20.64      | 20.93 | 20.83 | 21.50              |                    |
|                                 | 15        | LOW       | Q16        | 20.91      | 20.76 | 20.90 | 21.50              |                    |
|                                 | 3         | 1         | LOW        | 64QAM      | 20.65 | 20.80 | 20.86              | 21.50              |
|                                 |           |           | MID        | 64QAM      | 20.75 | 21.10 | 20.90              | 21.50              |
| HIGH                            |           |           | 64QAM      | 20.89      | 20.83 | 20.86 | 21.50              |                    |
| 8                               |           | LOW       | 64QAM      | 20.72      | 20.32 | 20.64 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 20.36      | 20.42 | 20.28 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.23      | 20.42 | 20.37 | 21.50              |                    |
| 15                              |           | LOW       | 64QAM      | 20.51      | 20.51 | 20.47 | 21.50              |                    |



| LTE B5-State1&3&5 -Ant.0 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20425      | 20525 | 20625 | Tune-up power(dBm) |                    |
| 5                               | 1         | LOW       | QPSK       | 21.01      | 20.86 | 20.75 | 21.50              |                    |
|                                 |           | MID       | QPSK       | 20.90      | 20.93 | 20.86 | 21.50              |                    |
|                                 |           | HIGH      | QPSK       | 20.90      | 20.94 | 21.01 | 21.50              |                    |
|                                 | 12        | LOW       | QPSK       | 20.91      | 20.89 | 20.99 | 21.50              |                    |
|                                 |           | MID       | QPSK       | 20.64      | 20.74 | 20.73 | 21.50              |                    |
|                                 |           | HIGH      | QPSK       | 20.99      | 20.77 | 21.08 | 21.50              |                    |
|                                 | 25        | LOW       | QPSK       | 20.93      | 20.98 | 20.73 | 21.50              |                    |
|                                 | 5         | 1         | LOW        | Q16        | 21.18 | 20.96 | 21.19              | 21.50              |
|                                 |           |           | MID        | Q16        | 20.79 | 20.97 | 21.00              | 21.50              |
| HIGH                            |           |           | Q16        | 21.25      | 21.23 | 20.89 | 21.50              |                    |
| 12                              |           | LOW       | Q16        | 20.62      | 20.91 | 20.86 | 21.50              |                    |
|                                 |           | MID       | Q16        | 20.80      | 20.93 | 21.01 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 20.82      | 21.10 | 20.66 | 21.50              |                    |
| 25                              |           | LOW       | Q16        | 20.90      | 20.65 | 20.73 | 21.50              |                    |
| 5                               |           | 1         | LOW        | 64QAM      | 20.69 | 20.99 | 21.05              | 21.50              |
|                                 |           |           | MID        | 64QAM      | 20.88 | 20.98 | 21.14              | 21.50              |
|                                 | HIGH      |           | 64QAM      | 21.10      | 20.89 | 21.08 | 21.50              |                    |
|                                 | 12        | LOW       | 64QAM      | 20.47      | 20.49 | 20.63 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 20.33      | 20.33 | 20.35 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.44      | 20.69 | 20.53 | 21.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 20.49      | 20.60 | 20.43 | 21.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20450 | 20525 | 20600              | Tune-up power(dBm) |
|                                 | 10        | 1         | LOW        | QPSK       | 21.01 | 20.92 | 20.78              | 21.50              |
| MID                             |           |           | QPSK       | 20.91      | 20.93 | 20.96 | 21.50              |                    |
| HIGH                            |           |           | QPSK       | 20.81      | 20.90 | 20.86 | 21.50              |                    |
| 25                              |           | LOW       | QPSK       | 20.86      | 20.90 | 20.96 | 21.50              |                    |
|                                 |           | MID       | QPSK       | 20.75      | 20.78 | 20.81 | 21.50              |                    |
|                                 |           | HIGH      | QPSK       | 21.02      | 20.70 | 21.01 | 21.50              |                    |
| 50                              | LOW       | QPSK      | 20.98      | 20.89      | 20.77 | 21.50 |                    |                    |
| 10                              | 1         | LOW       | Q16        | 21.15      | 20.98 | 21.18 | 21.50              |                    |
|                                 |           | MID       | Q16        | 20.81      | 21.12 | 20.95 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 21.15      | 21.18 | 20.97 | 21.50              |                    |
|                                 | 25        | LOW       | Q16        | 20.67      | 20.87 | 20.96 | 21.50              |                    |
|                                 |           | MID       | Q16        | 20.79      | 21.06 | 21.05 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 20.79      | 21.01 | 20.75 | 21.50              |                    |
|                                 | 50        | LOW       | Q16        | 20.79      | 20.70 | 20.88 | 21.50              |                    |
|                                 | 10        | 1         | LOW        | 64QAM      | 20.75 | 20.91 | 20.95              | 21.50              |
|                                 |           |           | MID        | 64QAM      | 20.85 | 20.96 | 21.05              | 21.50              |
| HIGH                            |           |           | 64QAM      | 20.98      | 20.89 | 21.00 | 21.50              |                    |
| 25                              |           | LOW       | 64QAM      | 20.58      | 20.38 | 20.54 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 20.44      | 20.43 | 20.36 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.35      | 20.56 | 20.43 | 21.50              |                    |
| 50                              |           | LOW       | 64QAM      | 20.41      | 20.52 | 20.37 | 21.50              |                    |

| LTE B5-State2&4&6 -Ant.0 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20407      | 20525 | 20643 | Tune-up power(dBm) |                    |
| 1.4                             | 1         | LOW       | QPSK       | 23.44      | 23.37 | 23.36 | 24.50              |                    |
|                                 |           | MID       | QPSK       | 23.27      | 23.38 | 23.45 | 24.50              |                    |
|                                 |           | HIGH      | QPSK       | 23.47      | 23.33 | 23.21 | 24.50              |                    |
|                                 | 3         | LOW       | QPSK       | 23.42      | 23.40 | 23.50 | 24.50              |                    |
|                                 |           | MID       | QPSK       | 23.27      | 23.54 | 23.54 | 24.50              |                    |
|                                 |           | HIGH      | QPSK       | 23.46      | 23.29 | 23.50 | 24.50              |                    |
|                                 | 6         | LOW       | QPSK       | 22.27      | 22.37 | 22.42 | 23.50              |                    |
|                                 | 1.4       | 1         | LOW        | Q16        | 22.29 | 22.43 | 22.56              | 23.50              |
|                                 |           |           | MID        | Q16        | 22.58 | 22.59 | 22.38              | 23.50              |
| HIGH                            |           |           | Q16        | 22.29      | 22.44 | 22.36 | 23.50              |                    |
| 3                               |           | LOW       | Q16        | 22.48      | 22.31 | 22.33 | 23.50              |                    |
|                                 |           | MID       | Q16        | 22.20      | 22.19 | 22.23 | 23.50              |                    |
|                                 |           | HIGH      | Q16        | 22.43      | 22.49 | 22.49 | 23.50              |                    |
| 6                               |           | LOW       | Q16        | 21.20      | 21.32 | 21.31 | 22.50              |                    |
| 1.4                             |           | 1         | LOW        | 64QAM      | 21.20 | 21.34 | 21.25              | 22.50              |
|                                 |           |           | MID        | 64QAM      | 21.22 | 21.53 | 21.37              | 22.50              |
|                                 | HIGH      |           | 64QAM      | 21.15      | 21.25 | 21.35 | 22.50              |                    |
|                                 | 3         | LOW       | 64QAM      | 21.39      | 21.30 | 21.34 | 22.50              |                    |
|                                 |           | MID       | 64QAM      | 21.48      | 21.10 | 21.22 | 22.50              |                    |
|                                 |           | HIGH      | 64QAM      | 21.18      | 21.39 | 21.20 | 22.50              |                    |
|                                 | 6         | LOW       | 64QAM      | 20.40      | 20.27 | 20.22 | 21.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20415 | 20525 | 20635              | Tune-up power(dBm) |
|                                 | 3         | 1         | LOW        | QPSK       | 23.44 | 23.55 | 23.25              | 24.50              |
| MID                             |           |           | QPSK       | 23.50      | 23.28 | 23.23 | 24.50              |                    |
| HIGH                            |           |           | QPSK       | 23.36      | 23.36 | 23.46 | 24.50              |                    |
| 8                               |           | LOW       | QPSK       | 22.46      | 22.36 | 22.51 | 23.50              |                    |
|                                 |           | MID       | QPSK       | 22.36      | 22.47 | 22.10 | 23.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.20      | 22.31 | 22.49 | 23.50              |                    |
| 15                              |           | LOW       | QPSK       | 22.20      | 22.41 | 22.24 | 23.50              |                    |
| 3                               |           | 1         | LOW        | Q16        | 22.37 | 22.62 | 22.72              | 23.50              |
|                                 |           |           | MID        | Q16        | 22.66 | 22.61 | 22.37              | 23.50              |
|                                 | HIGH      |           | Q16        | 22.45      | 22.43 | 22.68 | 23.50              |                    |
|                                 | 8         | LOW       | Q16        | 21.29      | 21.28 | 21.10 | 22.50              |                    |
|                                 |           | MID       | Q16        | 21.62      | 21.46 | 21.31 | 22.50              |                    |
|                                 |           | HIGH      | Q16        | 21.46      | 21.63 | 21.56 | 22.50              |                    |
|                                 | 15        | LOW       | Q16        | 21.72      | 21.43 | 21.40 | 22.50              |                    |
|                                 | 3         | 1         | LOW        | 64QAM      | 21.05 | 21.44 | 21.36              | 22.50              |
|                                 |           |           | MID        | 64QAM      | 21.50 | 21.40 | 21.40              | 22.50              |
| HIGH                            |           |           | 64QAM      | 21.34      | 21.40 | 21.34 | 22.50              |                    |
| 8                               |           | LOW       | 64QAM      | 20.11      | 20.29 | 20.32 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 20.27      | 20.11 | 20.48 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.15      | 19.93 | 20.25 | 21.50              |                    |
| 15                              |           | LOW       | 64QAM      | 19.91      | 19.98 | 20.33 | 21.50              |                    |

| LTE B5-State2&4&6 -Ant.0 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20425      | 20525 | 20625 | Tune-up power(dBm) |                    |
| 5                               | 1         | LOW       | QPSK       | 23.22      | 23.40 | 23.26 | 24.50              |                    |
|                                 |           | MID       | QPSK       | 23.41      | 23.35 | 23.39 | 24.50              |                    |
|                                 |           | HIGH      | QPSK       | 23.28      | 23.54 | 23.38 | 24.50              |                    |
|                                 | 12        | LOW       | QPSK       | 22.47      | 22.43 | 22.63 | 23.50              |                    |
|                                 |           | MID       | QPSK       | 22.36      | 22.36 | 22.11 | 23.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.15      | 22.34 | 22.51 | 23.50              |                    |
|                                 | 25        | LOW       | QPSK       | 22.30      | 22.38 | 22.36 | 23.50              |                    |
|                                 | 5         | 1         | LOW        | Q16        | 22.60 | 22.64 | 22.50              | 23.50              |
|                                 |           |           | MID        | Q16        | 22.60 | 22.68 | 22.66              | 23.50              |
| HIGH                            |           |           | Q16        | 22.41      | 22.38 | 22.46 | 23.50              |                    |
| 12                              |           | LOW       | Q16        | 21.29      | 21.26 | 21.03 | 22.50              |                    |
|                                 |           | MID       | Q16        | 21.42      | 21.52 | 21.24 | 22.50              |                    |
|                                 |           | HIGH      | Q16        | 21.56      | 21.63 | 21.48 | 22.50              |                    |
| 25                              |           | LOW       | Q16        | 21.49      | 21.54 | 21.39 | 22.50              |                    |
| 5                               |           | 1         | LOW        | 64QAM      | 21.12 | 21.37 | 21.45              | 22.50              |
|                                 |           |           | MID        | 64QAM      | 21.34 | 21.31 | 21.25              | 22.50              |
|                                 | HIGH      |           | 64QAM      | 21.31      | 21.38 | 21.22 | 22.50              |                    |
|                                 | 12        | LOW       | 64QAM      | 20.07      | 20.24 | 20.19 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 20.29      | 20.19 | 20.53 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.01      | 20.14 | 20.06 | 21.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 19.87      | 19.94 | 20.21 | 21.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20450 | 20525 | 20600              | Tune-up power(dBm) |
|                                 | 10        | 1         | LOW        | QPSK       | 23.31 | 23.43 | 23.40              | 24.50              |
| MID                             |           |           | QPSK       | 23.47      | 23.42 | 23.32 | 24.50              |                    |
| HIGH                            |           |           | QPSK       | 23.39      | 23.40 | 23.34 | 24.50              |                    |
| 25                              |           | LOW       | QPSK       | 22.39      | 22.38 | 22.51 | 23.50              |                    |
|                                 |           | MID       | QPSK       | 22.32      | 22.46 | 22.19 | 23.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.19      | 22.21 | 22.50 | 23.50              |                    |
| 50                              | LOW       | QPSK      | 22.26      | 22.41      | 22.30 | 23.50 |                    |                    |
| 10                              | 1         | LOW       | Q16        | 22.51      | 22.49 | 22.57 | 23.50              |                    |
|                                 |           | MID       | Q16        | 22.60      | 22.65 | 22.52 | 23.50              |                    |
|                                 |           | HIGH      | Q16        | 22.30      | 22.44 | 22.53 | 23.50              |                    |
|                                 | 25        | LOW       | Q16        | 21.31      | 21.37 | 21.17 | 22.50              |                    |
|                                 |           | MID       | Q16        | 21.49      | 21.51 | 21.36 | 22.50              |                    |
|                                 |           | HIGH      | Q16        | 21.53      | 21.54 | 21.56 | 22.50              |                    |
| 50                              | LOW       | Q16       | 21.57      | 21.43      | 21.39 | 22.50 |                    |                    |
| 10                              | 1         | LOW       | 64QAM      | 21.20      | 21.38 | 21.30 | 22.50              |                    |
|                                 |           | MID       | 64QAM      | 21.45      | 21.41 | 21.31 | 22.50              |                    |
|                                 |           | HIGH      | 64QAM      | 21.46      | 21.36 | 21.29 | 22.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 20.08      | 20.18 | 20.27 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 20.32      | 20.20 | 20.38 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.10      | 20.06 | 20.17 | 21.50              |                    |
| 50                              | LOW       | 64QAM     | 20.02      | 20.03      | 20.27 | 21.50 |                    |                    |

### 8.3.2 LTE Band5 Output Power

| LTE B5-Full Power -Ant.1 (ENDC) |         |           |            |       |       |       |                    |
|---------------------------------|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (MHz)                 | RB Size | RB offset | Modulation | 20407 | 20525 | 20643 | Tune-up power(dBm) |
| 1.4                             | 1       | LOW       | QPSK       | 22.95 | 23.06 | 23.11 | 24.50              |
|                                 |         | MID       | QPSK       | 23.17 | 23.07 | 22.93 | 24.50              |
|                                 |         | HIGH      | QPSK       | 22.99 | 23.04 | 23.19 | 24.50              |
|                                 | 3       | LOW       | QPSK       | 23.16 | 23.09 | 22.99 | 24.50              |
|                                 |         | MID       | QPSK       | 23.25 | 22.96 | 23.15 | 24.50              |
|                                 |         | HIGH      | QPSK       | 22.96 | 23.23 | 23.25 | 24.50              |
| 6                               | LOW     | QPSK      | 22.15      | 22.06 | 21.94 | 23.50 |                    |
| 1.4                             | 1       | LOW       | Q16        | 22.17 | 22.13 | 21.99 | 23.50              |
|                                 |         | MID       | Q16        | 22.18 | 22.21 | 22.02 | 23.50              |
|                                 |         | HIGH      | Q16        | 22.04 | 22.05 | 22.12 | 23.50              |
|                                 | 3       | LOW       | Q16        | 21.78 | 21.98 | 21.86 | 23.50              |
|                                 |         | MID       | Q16        | 22.13 | 21.95 | 22.11 | 23.50              |
|                                 |         | HIGH      | Q16        | 21.89 | 22.01 | 21.85 | 23.50              |
| 6                               | LOW     | Q16       | 22.08      | 22.02 | 22.05 | 22.50 |                    |
| 1.4                             | 1       | LOW       | 64QAM      | 21.20 | 21.06 | 21.00 | 22.50              |
|                                 |         | MID       | 64QAM      | 21.21 | 20.99 | 20.86 | 22.50              |
|                                 |         | HIGH      | 64QAM      | 21.01 | 21.15 | 21.11 | 22.50              |
|                                 | 3       | LOW       | 64QAM      | 21.10 | 21.21 | 21.20 | 22.50              |
|                                 |         | MID       | 64QAM      | 21.32 | 21.06 | 21.10 | 22.50              |
|                                 |         | HIGH      | 64QAM      | 21.15 | 21.20 | 21.24 | 22.50              |
| 6                               | LOW     | 64QAM     | 20.08      | 20.20 | 20.13 | 21.50 |                    |
| Bandwidth (MHz)                 | RB Size | RB offset | Modulation | 20415 | 20525 | 20635 | Tune-up power(dBm) |
| 3                               | 1       | LOW       | QPSK       | 23.18 | 23.28 | 23.09 | 24.50              |
|                                 |         | MID       | QPSK       | 23.27 | 22.98 | 23.01 | 24.50              |
|                                 |         | HIGH      | QPSK       | 23.33 | 23.15 | 23.08 | 24.50              |
|                                 | 8       | LOW       | QPSK       | 22.12 | 22.07 | 21.92 | 23.50              |
|                                 |         | MID       | QPSK       | 22.23 | 21.96 | 22.03 | 23.50              |
|                                 |         | HIGH      | QPSK       | 22.22 | 21.97 | 22.21 | 23.50              |
| 15                              | LOW     | QPSK      | 21.99      | 21.96 | 22.03 | 23.50 |                    |
| 3                               | 1       | LOW       | Q16        | 22.22 | 22.33 | 22.23 | 23.50              |
|                                 |         | MID       | Q16        | 22.36 | 22.50 | 22.05 | 23.50              |
|                                 |         | HIGH      | Q16        | 21.98 | 22.33 | 22.36 | 23.50              |
|                                 | 8       | LOW       | Q16        | 20.94 | 21.12 | 20.81 | 22.50              |
|                                 |         | MID       | Q16        | 21.40 | 20.79 | 21.26 | 22.50              |
|                                 |         | HIGH      | Q16        | 20.99 | 20.90 | 21.00 | 22.50              |
| 15                              | LOW     | Q16       | 21.02      | 20.92 | 21.18 | 22.50 |                    |
| 3                               | 1       | LOW       | 64QAM      | 21.23 | 21.13 | 21.29 | 22.50              |
|                                 |         | MID       | 64QAM      | 21.04 | 21.24 | 21.05 | 22.50              |
|                                 |         | HIGH      | 64QAM      | 21.18 | 20.99 | 21.14 | 22.50              |
|                                 | 8       | LOW       | 64QAM      | 20.27 | 20.25 | 20.23 | 21.50              |
|                                 |         | MID       | 64QAM      | 20.17 | 20.25 | 20.36 | 21.50              |
|                                 |         | HIGH      | 64QAM      | 20.15 | 20.47 | 20.29 | 21.50              |
| 15                              | LOW     | 64QAM     | 20.13      | 20.02 | 20.43 | 21.50 |                    |

| LTE B5-Full Power -Ant.1 (ENDC) |             |           |            |            |       |       |                    |                    |
|---------------------------------|-------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (                     | RB Size     | RB offset | Modulation | 20425      | 20525 | 20625 | Tune-up power(dBm) |                    |
| 5                               | 1           | LOW       | QPSK       | 23.09      | 23.08 | 23.08 | 24.50              |                    |
|                                 |             | MID       | QPSK       | 23.34      | 23.27 | 22.99 | 24.50              |                    |
|                                 |             | HIGH      | QPSK       | 23.23      | 23.39 | 23.21 | 24.50              |                    |
|                                 | 12          | LOW       | QPSK       | 22.36      | 21.98 | 22.09 | 23.50              |                    |
|                                 |             | MID       | QPSK       | 22.11      | 21.99 | 21.83 | 23.50              |                    |
|                                 |             | HIGH      | QPSK       | 22.23      | 22.04 | 22.15 | 23.50              |                    |
|                                 | 25          | LOW       | QPSK       | 21.94      | 22.14 | 21.99 | 23.50              |                    |
|                                 | 5           | 1         | LOW        | Q16        | 22.27 | 22.30 | 22.21              | 23.50              |
|                                 |             |           | MID        | Q16        | 22.45 | 22.32 | 22.07              | 23.50              |
| HIGH                            |             |           | Q16        | 22.09      | 22.17 | 22.19 | 23.50              |                    |
| 12                              |             | LOW       | Q16        | 21.07      | 21.08 | 20.92 | 22.50              |                    |
|                                 |             | MID       | Q16        | 21.30      | 20.78 | 21.21 | 22.50              |                    |
|                                 |             | HIGH      | Q16        | 21.02      | 20.91 | 21.03 | 22.50              |                    |
| 25                              |             | LOW       | Q16        | 21.03      | 20.92 | 21.25 | 22.50              |                    |
| 5                               |             | 1         | LOW        | 64QAM      | 21.41 | 21.16 | 21.24              | 22.50              |
|                                 |             |           | MID        | 64QAM      | 21.16 | 21.38 | 20.99              | 22.50              |
|                                 | HIGH        |           | 64QAM      | 21.01      | 21.26 | 21.17 | 22.50              |                    |
|                                 | 12          | LOW       | 64QAM      | 20.29      | 20.11 | 20.14 | 21.50              |                    |
|                                 |             | MID       | 64QAM      | 20.18      | 20.39 | 20.52 | 21.50              |                    |
|                                 |             | HIGH      | 64QAM      | 20.11      | 20.47 | 20.30 | 21.50              |                    |
|                                 | 25          | LOW       | 64QAM      | 20.25      | 19.94 | 20.35 | 21.50              |                    |
|                                 | Bandwidth ( | RB Size   | RB offset  | Modulation | 20450 | 20525 | 20600              | Tune-up power(dBm) |
|                                 | 10          | 1         | LOW        | QPSK       | 23.19 | 23.14 | 23.00              | 24.50              |
| MID                             |             |           | QPSK       | 23.19      | 23.13 | 23.06 | 24.50              |                    |
| HIGH                            |             |           | QPSK       | 23.23      | 23.29 | 23.19 | 24.50              |                    |
| 25                              |             | LOW       | QPSK       | 22.26      | 22.07 | 22.07 | 23.50              |                    |
|                                 |             | MID       | QPSK       | 22.26      | 21.95 | 21.95 | 23.50              |                    |
|                                 |             | HIGH      | QPSK       | 22.16      | 21.89 | 22.19 | 23.50              |                    |
| 50                              |             | LOW       | QPSK       | 21.92      | 22.10 | 21.97 | 23.50              |                    |
| 10                              |             | 1         | LOW        | Q16        | 22.17 | 22.19 | 22.31              | 23.50              |
|                                 |             |           | MID        | Q16        | 22.34 | 22.36 | 22.16              | 23.50              |
|                                 | HIGH        |           | Q16        | 22.01      | 22.21 | 22.29 | 23.50              |                    |
|                                 | 25          | LOW       | Q16        | 21.05      | 21.06 | 20.88 | 22.50              |                    |
|                                 |             | MID       | Q16        | 21.26      | 20.89 | 21.22 | 22.50              |                    |
|                                 |             | HIGH      | Q16        | 21.09      | 20.90 | 21.03 | 22.50              |                    |
|                                 | 50          | LOW       | Q16        | 21.10      | 21.07 | 21.15 | 22.50              |                    |
|                                 | 10          | 1         | LOW        | 64QAM      | 21.26 | 21.09 | 21.25              | 22.50              |
|                                 |             |           | MID        | 64QAM      | 21.13 | 21.28 | 20.99              | 22.50              |
| HIGH                            |             |           | 64QAM      | 21.10      | 21.11 | 21.21 | 22.50              |                    |
| 25                              |             | LOW       | 64QAM      | 20.28      | 20.23 | 20.22 | 21.50              |                    |
|                                 |             | MID       | 64QAM      | 20.09      | 20.35 | 20.39 | 21.50              |                    |
|                                 |             | HIGH      | 64QAM      | 20.21      | 20.36 | 20.19 | 21.50              |                    |
| 50                              |             | LOW       | 64QAM      | 20.19      | 20.07 | 20.39 | 21.50              |                    |

| LTE B5-State1&2&3&4&5&6 -Ant.1 ( ENDC ) |         |           |            |       |       |       |                    |
|---|---------|-----------|------------|-------|-------|-------|--------------------|
| Bandwidth (                             | RB Size | RB offset | Modulation | 20407 | 20525 | 20643 | Tune-up power(dBm) |
| 1.4                                     | 1       | LOW       | QPSK       | 22.95 | 23.06 | 23.11 | 24.50              |
|   |         | MID       | QPSK       | 23.17 | 23.07 | 22.93 | 24.50              |
|   |         | HIGH      | QPSK       | 22.99 | 23.04 | 23.19 | 24.50              |
|   | 3       | LOW       | QPSK       | 23.16 | 23.09 | 22.99 | 24.50              |
|   |         | MID       | QPSK       | 23.25 | 22.96 | 23.15 | 24.50              |
|   |         | HIGH      | QPSK       | 22.96 | 23.23 | 23.25 | 24.50              |
| 6                                       | LOW     | QPSK      | 22.15      | 22.06 | 21.94 | 23.50 |                    |
| 1.4                                     | 1       | LOW       | Q16        | 22.17 | 22.13 | 21.99 | 23.50              |
|   |         | MID       | Q16        | 22.18 | 22.21 | 22.02 | 23.50              |
|   |         | HIGH      | Q16        | 22.04 | 22.05 | 22.12 | 23.50              |
|   | 3       | LOW       | Q16        | 21.78 | 21.98 | 21.86 | 23.50              |
|   |         | MID       | Q16        | 22.13 | 21.95 | 22.11 | 23.50              |
|   |         | HIGH      | Q16        | 21.89 | 22.01 | 21.85 | 23.50              |
| 6                                       | LOW     | Q16       | 22.08      | 22.02 | 22.05 | 22.50 |                    |
| 1.4                                     | 1       | LOW       | 64QAM      | 21.20 | 21.06 | 21.00 | 22.50              |
|   |         | MID       | 64QAM      | 21.21 | 20.99 | 20.86 | 22.50              |
|   |         | HIGH      | 64QAM      | 21.01 | 21.15 | 21.11 | 22.50              |
|   | 3       | LOW       | 64QAM      | 21.10 | 21.21 | 21.20 | 22.50              |
|   |         | MID       | 64QAM      | 21.32 | 21.06 | 21.10 | 22.50              |
|   |         | HIGH      | 64QAM      | 21.15 | 21.20 | 21.24 | 22.50              |
| 6                                       | LOW     | 64QAM     | 20.08      | 20.20 | 20.13 | 21.50 |                    |
| Bandwidth (                             | RB Size | RB offset | Modulation | 20415 | 20525 | 20635 | Tune-up power(dBm) |
| 3                                       | 1       | LOW       | QPSK       | 23.18 | 23.28 | 23.09 | 24.50              |
|   |         | MID       | QPSK       | 23.27 | 22.98 | 23.01 | 24.50              |
|   |         | HIGH      | QPSK       | 23.33 | 23.15 | 23.08 | 24.50              |
|   | 8       | LOW       | QPSK       | 22.12 | 22.07 | 21.92 | 23.50              |
|   |         | MID       | QPSK       | 22.23 | 21.96 | 22.03 | 23.50              |
|   |         | HIGH      | QPSK       | 22.22 | 21.97 | 22.21 | 23.50              |
| 15                                      | LOW     | QPSK      | 21.99      | 21.96 | 22.03 | 23.50 |                    |
| 3                                       | 1       | LOW       | Q16        | 22.22 | 22.33 | 22.23 | 23.50              |
|   |         | MID       | Q16        | 22.36 | 22.50 | 22.05 | 23.50              |
|   |         | HIGH      | Q16        | 21.98 | 22.33 | 22.36 | 23.50              |
|   | 8       | LOW       | Q16        | 20.94 | 21.12 | 20.81 | 22.50              |
|   |         | MID       | Q16        | 21.40 | 20.79 | 21.26 | 22.50              |
|   |         | HIGH      | Q16        | 20.99 | 20.90 | 21.00 | 22.50              |
| 15                                      | LOW     | Q16       | 21.02      | 20.92 | 21.18 | 22.50 |                    |
| 3                                       | 1       | LOW       | 64QAM      | 21.23 | 21.13 | 21.29 | 22.50              |
|   |         | MID       | 64QAM      | 21.04 | 21.24 | 21.05 | 22.50              |
|   |         | HIGH      | 64QAM      | 21.18 | 20.99 | 21.14 | 22.50              |
|   | 8       | LOW       | 64QAM      | 20.27 | 20.25 | 20.23 | 21.50              |
|   |         | MID       | 64QAM      | 20.17 | 20.25 | 20.36 | 21.50              |
|   |         | HIGH      | 64QAM      | 20.15 | 20.47 | 20.29 | 21.50              |
| 15                                      | LOW     | 64QAM     | 20.13      | 20.02 | 20.43 | 21.50 |                    |

| LTE B5-State1&2&3&4&5&6 -Ant.1 ( ENDC ) |             |           |            |            |       |       |                    |                    |
|---|-------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (                             | RB Size     | RB offset | Modulation | 20425      | 20525 | 20625 | Tune-up power(dBm) |                    |
| 5                                       | 1           | LOW       | QPSK       | 23.09      | 23.08 | 23.08 | 24.50              |                    |
|   |             | MID       | QPSK       | 23.34      | 23.27 | 22.99 | 24.50              |                    |
|   |             | HIGH      | QPSK       | 23.23      | 23.39 | 23.21 | 24.50              |                    |
|   | 12          | LOW       | QPSK       | 22.36      | 21.98 | 22.09 | 23.50              |                    |
|   |             | MID       | QPSK       | 22.11      | 21.99 | 21.83 | 23.50              |                    |
|   |             | HIGH      | QPSK       | 22.23      | 22.04 | 22.15 | 23.50              |                    |
|   | 25          | LOW       | QPSK       | 21.94      | 22.14 | 21.99 | 23.50              |                    |
|   | 5           | 1         | LOW        | Q16        | 22.27 | 22.30 | 22.21              | 23.50              |
|   |             |           | MID        | Q16        | 22.45 | 22.32 | 22.07              | 23.50              |
| HIGH                                    |             |           | Q16        | 22.09      | 22.17 | 22.19 | 23.50              |                    |
| 12                                      |             | LOW       | Q16        | 21.07      | 21.08 | 20.92 | 22.50              |                    |
|   |             | MID       | Q16        | 21.30      | 20.78 | 21.21 | 22.50              |                    |
|   |             | HIGH      | Q16        | 21.02      | 20.91 | 21.03 | 22.50              |                    |
| 25                                      |             | LOW       | Q16        | 21.03      | 20.92 | 21.25 | 22.50              |                    |
| 5                                       |             | 1         | LOW        | 64QAM      | 21.41 | 21.16 | 21.24              | 22.50              |
|   |             |           | MID        | 64QAM      | 21.16 | 21.38 | 20.99              | 22.50              |
|   | HIGH        |           | 64QAM      | 21.01      | 21.26 | 21.17 | 22.50              |                    |
|   | 12          | LOW       | 64QAM      | 20.29      | 20.11 | 20.14 | 21.50              |                    |
|   |             | MID       | 64QAM      | 20.18      | 20.39 | 20.52 | 21.50              |                    |
|   |             | HIGH      | 64QAM      | 20.11      | 20.47 | 20.30 | 21.50              |                    |
|   | 25          | LOW       | 64QAM      | 20.25      | 19.94 | 20.35 | 21.50              |                    |
|   | Bandwidth ( | RB Size   | RB offset  | Modulation | 20450 | 20525 | 20600              | Tune-up power(dBm) |
|   | 10          | 1         | LOW        | QPSK       | 23.19 | 23.14 | 23.00              | 24.50              |
| MID                                     |             |           | QPSK       | 23.19      | 23.13 | 23.06 | 24.50              |                    |
| HIGH                                    |             |           | QPSK       | 23.23      | 23.29 | 23.19 | 24.50              |                    |
| 25                                      |             | LOW       | QPSK       | 22.26      | 22.07 | 22.07 | 23.50              |                    |
|   |             | MID       | QPSK       | 22.26      | 21.95 | 21.95 | 23.50              |                    |
|   |             | HIGH      | QPSK       | 22.16      | 21.89 | 22.19 | 23.50              |                    |
| 50                                      |             | LOW       | QPSK       | 21.92      | 22.10 | 21.97 | 23.50              |                    |
| 10                                      |             | 1         | LOW        | Q16        | 22.17 | 22.19 | 22.31              | 23.50              |
|   |             |           | MID        | Q16        | 22.34 | 22.36 | 22.16              | 23.50              |
|   | HIGH        |           | Q16        | 22.01      | 22.21 | 22.29 | 23.50              |                    |
|   | 25          | LOW       | Q16        | 21.05      | 21.06 | 20.88 | 22.50              |                    |
|   |             | MID       | Q16        | 21.26      | 20.89 | 21.22 | 22.50              |                    |
|   |             | HIGH      | Q16        | 21.09      | 20.90 | 21.03 | 22.50              |                    |
|   | 50          | LOW       | Q16        | 21.10      | 21.07 | 21.15 | 22.50              |                    |
|   | 10          | 1         | LOW        | 64QAM      | 21.26 | 21.09 | 21.25              | 22.50              |
|   |             |           | MID        | 64QAM      | 21.13 | 21.28 | 20.99              | 22.50              |
| HIGH                                    |             |           | 64QAM      | 21.10      | 21.11 | 21.21 | 22.50              |                    |
| 25                                      |             | LOW       | 64QAM      | 20.28      | 20.23 | 20.22 | 21.50              |                    |
|   |             | MID       | 64QAM      | 20.09      | 20.35 | 20.39 | 21.50              |                    |
|   |             | HIGH      | 64QAM      | 20.21      | 20.36 | 20.19 | 21.50              |                    |
| 50                                      |             | LOW       | 64QAM      | 20.19      | 20.07 | 20.39 | 21.50              |                    |

## 8.3.3 LTE Band7 Output Power

| LTE B7-Full Power -Ant.1 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1         | LOW       | QPSK       | 22.25      | 22.11 | 22.13 | 22.50              |                    |
|                                 |           | MID       | QPSK       | 22.11      | 22.20 | 22.33 | 22.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.17      | 22.14 | 22.06 | 22.50              |                    |
|                                 | 12        | LOW       | QPSK       | 21.06      | 21.10 | 20.90 | 21.50              |                    |
|                                 |           | MID       | QPSK       | 20.91      | 21.03 | 21.10 | 21.50              |                    |
|                                 |           | HIGH      | QPSK       | 20.92      | 21.01 | 21.30 | 21.50              |                    |
|                                 | 25        | LOW       | QPSK       | 21.23      | 21.06 | 20.86 | 21.50              |                    |
|                                 | 5         | 1         | LOW        | Q16        | 21.05 | 21.13 | 21.18              | 21.50              |
|                                 |           |           | MID        | Q16        | 21.03 | 21.06 | 21.32              | 21.50              |
| HIGH                            |           |           | Q16        | 21.03      | 21.32 | 20.93 | 21.50              |                    |
| 12                              |           | LOW       | Q16        | 20.14      | 20.11 | 20.07 | 20.50              |                    |
|                                 |           | MID       | Q16        | 20.06      | 20.03 | 19.91 | 20.50              |                    |
|                                 |           | HIGH      | Q16        | 20.07      | 19.98 | 19.97 | 20.50              |                    |
| 25                              |           | LOW       | Q16        | 20.17      | 20.10 | 20.28 | 20.50              |                    |
| 5                               |           | 1         | LOW        | 64QAM      | 20.07 | 20.11 | 20.26              | 20.50              |
|                                 |           |           | MID        | 64QAM      | 20.01 | 20.15 | 20.22              | 20.50              |
|                                 | HIGH      |           | 64QAM      | 20.24      | 20.00 | 20.10 | 20.50              |                    |
|                                 | 12        | LOW       | 64QAM      | 19.19      | 19.06 | 19.06 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 19.19      | 18.99 | 19.02 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 18.99      | 19.03 | 19.10 | 19.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 19.02      | 19.02 | 19.07 | 19.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10        | 1         | LOW        | QPSK       | 21.85 | 22.17 | 22.36              | 22.50              |
| MID                             |           |           | QPSK       | 22.14      | 22.17 | 22.30 | 22.50              |                    |
| HIGH                            |           |           | QPSK       | 22.21      | 22.06 | 22.27 | 22.50              |                    |
| 25                              |           | LOW       | QPSK       | 21.24      | 21.31 | 21.37 | 21.50              |                    |
|                                 |           | MID       | QPSK       | 21.35      | 21.22 | 21.17 | 21.50              |                    |
|                                 |           | HIGH      | QPSK       | 21.33      | 21.33 | 21.36 | 21.50              |                    |
| 50                              | LOW       | QPSK      | 21.19      | 21.11      | 21.40 | 21.50 |                    |                    |
| 10                              | 1         | LOW       | Q16        | 21.29      | 21.06 | 20.84 | 21.50              |                    |
|                                 |           | MID       | Q16        | 21.00      | 21.25 | 21.29 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 20.93      | 21.14 | 21.35 | 21.50              |                    |
|                                 | 25        | LOW       | Q16        | 20.18      | 20.27 | 20.48 | 20.50              |                    |
|                                 |           | MID       | Q16        | 20.21      | 20.42 | 20.35 | 20.50              |                    |
|                                 |           | HIGH      | Q16        | 20.11      | 20.07 | 20.22 | 20.50              |                    |
| 50                              | LOW       | Q16       | 20.07      | 20.34      | 20.21 | 20.50 |                    |                    |
| 10                              | 1         | LOW       | 64QAM      | 19.83      | 20.27 | 20.13 | 20.50              |                    |
|                                 |           | MID       | 64QAM      | 20.36      | 20.18 | 19.93 | 20.50              |                    |
|                                 |           | HIGH      | 64QAM      | 19.96      | 20.23 | 20.29 | 20.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 19.28      | 19.23 | 19.13 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 19.25      | 19.24 | 19.32 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 19.27      | 19.14 | 18.89 | 19.50              |                    |
| 50                              | LOW       | 64QAM     | 19.35      | 19.21      | 19.23 | 19.50 |                    |                    |



| LTE B7-Full Power -Ant.1 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1         | LOW       | QPSK       | 22.05      | 21.99 | 22.12 | 22.50              |                    |
|                                 |           | MID       | QPSK       | 22.24      | 22.36 | 22.34 | 22.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.34      | 22.26 | 22.31 | 22.50              |                    |
|                                 | 36        | LOW       | QPSK       | 21.09      | 21.24 | 21.43 | 21.50              |                    |
|                                 |           | MID       | QPSK       | 21.33      | 21.18 | 21.16 | 21.50              |                    |
|                                 |           | HIGH      | QPSK       | 21.39      | 21.12 | 21.45 | 21.50              |                    |
|                                 | 75        | LOW       | QPSK       | 21.15      | 21.31 | 21.19 | 21.50              |                    |
|                                 | 15        | 1         | LOW        | Q16        | 21.29 | 21.27 | 20.91              | 21.50              |
|                                 |           |           | MID        | Q16        | 21.23 | 21.42 | 21.24              | 21.50              |
| HIGH                            |           |           | Q16        | 20.84      | 21.07 | 21.25 | 21.50              |                    |
| 36                              |           | LOW       | Q16        | 20.28      | 20.10 | 20.44 | 20.50              |                    |
|                                 |           | MID       | Q16        | 20.18      | 20.21 | 20.29 | 20.50              |                    |
|                                 |           | HIGH      | Q16        | 20.25      | 20.20 | 20.23 | 20.50              |                    |
| 75                              |           | LOW       | Q16        | 19.99      | 20.24 | 20.25 | 20.50              |                    |
| 15                              |           | 1         | LOW        | 64QAM      | 19.98 | 20.03 | 19.95              | 20.50              |
|                                 |           |           | MID        | 64QAM      | 20.07 | 20.20 | 19.88              | 20.50              |
|                                 | HIGH      |           | 64QAM      | 20.25      | 20.09 | 20.34 | 20.50              |                    |
|                                 | 36        | LOW       | 64QAM      | 19.23      | 19.10 | 19.15 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 19.41      | 19.38 | 19.39 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 19.33      | 19.18 | 19.05 | 19.50              |                    |
|                                 | 75        | LOW       | 64QAM      | 19.19      | 19.07 | 19.28 | 19.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20        | 1         | LOW        | QPSK       | 21.97 | 22.11 | 22.21              | 22.50              |
| MID                             |           |           | QPSK       | 22.28      | 22.24 | 22.33 | 22.50              |                    |
| HIGH                            |           |           | QPSK       | 22.21      | 22.20 | 22.31 | 22.50              |                    |
| 50                              |           | LOW       | QPSK       | 21.09      | 21.22 | 21.39 | 21.50              |                    |
|                                 |           | MID       | QPSK       | 21.25      | 21.14 | 21.10 | 21.50              |                    |
|                                 |           | HIGH      | QPSK       | 21.34      | 21.24 | 21.39 | 21.50              |                    |
| 100                             | LOW       | QPSK      | 21.11      | 21.20      | 21.27 | 21.50 |                    |                    |
| 20                              | 1         | LOW       | Q16        | 21.15      | 21.15 | 20.95 | 21.50              |                    |
|                                 |           | MID       | Q16        | 21.11      | 21.34 | 21.26 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 20.97      | 21.08 | 21.32 | 21.50              |                    |
|                                 | 50        | LOW       | Q16        | 20.33      | 20.22 | 20.41 | 20.50              |                    |
|                                 |           | MID       | Q16        | 20.27      | 20.27 | 20.42 | 20.50              |                    |
|                                 |           | HIGH      | Q16        | 20.22      | 20.11 | 20.18 | 20.50              |                    |
| 100                             | LOW       | Q16       | 20.12      | 20.19      | 20.29 | 20.50 |                    |                    |
| 20                              | 1         | LOW       | 64QAM      | 19.97      | 20.15 | 20.01 | 20.50              |                    |
|                                 |           | MID       | 64QAM      | 20.21      | 20.22 | 20.02 | 20.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.10      | 20.12 | 20.21 | 20.50              |                    |
|                                 | 50        | LOW       | 64QAM      | 19.19      | 19.22 | 19.02 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 19.33      | 19.29 | 19.27 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 19.26      | 19.21 | 19.03 | 19.50              |                    |
| 100                             | LOW       | 64QAM     | 19.31      | 19.22      | 19.36 | 19.50 |                    |                    |

| LTE B7-State1&3&5 -Ant.1 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1         | LOW       | QPSK       | 19.80      | 19.72 | 19.57 | 20.00              |                    |
|                                 |           | MID       | QPSK       | 19.87      | 19.76 | 19.85 | 20.00              |                    |
|                                 |           | HIGH      | QPSK       | 19.87      | 19.85 | 19.90 | 20.00              |                    |
|                                 | 12        | LOW       | QPSK       | 19.66      | 19.78 | 19.62 | 20.00              |                    |
|                                 |           | MID       | QPSK       | 19.70      | 19.90 | 19.75 | 20.00              |                    |
|                                 |           | HIGH      | QPSK       | 19.74      | 19.65 | 19.61 | 20.00              |                    |
|                                 | 25        | LOW       | QPSK       | 19.60      | 19.78 | 19.87 | 20.00              |                    |
|                                 | 5         | 1         | LOW        | Q16        | 19.95 | 19.82 | 19.94              | 20.00              |
|                                 |           |           | MID        | Q16        | 19.69 | 19.73 | 19.77              | 20.00              |
| HIGH                            |           |           | Q16        | 19.98      | 19.75 | 19.69 | 20.00              |                    |
| 12                              |           | LOW       | Q16        | 19.54      | 19.69 | 19.57 | 20.00              |                    |
|                                 |           | MID       | Q16        | 19.58      | 19.87 | 19.60 | 20.00              |                    |
|                                 |           | HIGH      | Q16        | 19.54      | 19.50 | 19.78 | 20.00              |                    |
| 25                              |           | LOW       | Q16        | 19.82      | 19.74 | 19.85 | 20.00              |                    |
| 5                               |           | 1         | LOW        | 64QAM      | 19.97 | 19.78 | 19.73              | 20.00              |
|                                 |           |           | MID        | 64QAM      | 19.85 | 19.73 | 19.96              | 20.00              |
|                                 | HIGH      |           | 64QAM      | 19.92      | 19.95 | 19.87 | 20.00              |                    |
|                                 | 12        | LOW       | 64QAM      | 19.09      | 19.20 | 19.36 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 19.26      | 19.35 | 19.03 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 19.07      | 19.00 | 19.01 | 19.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 19.33      | 19.18 | 19.22 | 19.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10        | 1         | LOW        | QPSK       | 19.73 | 19.57 | 19.57              | 20.00              |
| MID                             |           |           | QPSK       | 19.73      | 19.82 | 19.58 | 20.00              |                    |
| HIGH                            |           |           | QPSK       | 19.88      | 19.88 | 19.78 | 20.00              |                    |
| 25                              |           | LOW       | QPSK       | 19.64      | 19.68 | 19.91 | 20.00              |                    |
|                                 |           | MID       | QPSK       | 19.92      | 19.58 | 19.92 | 20.00              |                    |
|                                 |           | HIGH      | QPSK       | 19.49      | 19.64 | 19.48 | 20.00              |                    |
| 50                              | LOW       | QPSK      | 19.65      | 19.65      | 19.93 | 20.00 |                    |                    |
| 10                              | 1         | LOW       | Q16        | 19.64      | 19.63 | 19.69 | 20.00              |                    |
|                                 |           | MID       | Q16        | 19.92      | 19.71 | 19.93 | 20.00              |                    |
|                                 |           | HIGH      | Q16        | 19.80      | 19.61 | 19.73 | 20.00              |                    |
|                                 | 25        | LOW       | Q16        | 19.76      | 19.92 | 19.57 | 20.00              |                    |
|                                 |           | MID       | Q16        | 19.58      | 19.87 | 19.82 | 20.00              |                    |
|                                 |           | HIGH      | Q16        | 19.91      | 19.98 | 19.85 | 20.00              |                    |
| 50                              | LOW       | Q16       | 19.76      | 19.73      | 19.83 | 20.00 |                    |                    |
| 10                              | 1         | LOW       | 64QAM      | 19.87      | 19.78 | 19.80 | 20.00              |                    |
|                                 |           | MID       | 64QAM      | 19.94      | 19.77 | 19.75 | 20.00              |                    |
|                                 |           | HIGH      | 64QAM      | 19.83      | 19.94 | 19.44 | 20.00              |                    |
|                                 | 25        | LOW       | 64QAM      | 19.17      | 19.05 | 18.75 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 18.86      | 19.18 | 19.32 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 18.82      | 19.04 | 18.95 | 19.50              |                    |
| 50                              | LOW       | 64QAM     | 18.95      | 19.04      | 18.87 | 19.50 |                    |                    |

| LTE B7-State1&3&5 -Ant.1 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1         | LOW       | QPSK       | 19.59      | 19.56 | 19.71 | 20.00              |                    |
|                                 |           | MID       | QPSK       | 19.73      | 19.57 | 19.68 | 20.00              |                    |
|                                 |           | HIGH      | QPSK       | 19.85      | 19.87 | 19.81 | 20.00              |                    |
|                                 | 36        | LOW       | QPSK       | 19.64      | 19.82 | 19.78 | 20.00              |                    |
|                                 |           | MID       | QPSK       | 19.98      | 19.59 | 19.94 | 20.00              |                    |
|                                 |           | HIGH      | QPSK       | 19.56      | 19.79 | 19.75 | 20.00              |                    |
|                                 | 75        | LOW       | QPSK       | 19.62      | 19.84 | 19.65 | 20.00              |                    |
|                                 | 15        | 1         | LOW        | Q16        | 19.64 | 19.72 | 19.96              | 20.00              |
|                                 |           |           | MID        | Q16        | 19.69 | 19.67 | 19.72              | 20.00              |
| HIGH                            |           |           | Q16        | 19.91      | 19.49 | 19.65 | 20.00              |                    |
| 36                              |           | LOW       | Q16        | 19.76      | 19.72 | 19.69 | 20.00              |                    |
|                                 |           | MID       | Q16        | 19.76      | 19.73 | 19.88 | 20.00              |                    |
|                                 |           | HIGH      | Q16        | 19.82      | 19.60 | 19.61 | 20.00              |                    |
| 75                              |           | LOW       | Q16        | 19.65      | 19.49 | 19.84 | 20.00              |                    |
| 15                              |           | 1         | LOW        | 64QAM      | 19.67 | 19.84 | 19.78              | 20.00              |
|                                 |           |           | MID        | 64QAM      | 19.96 | 19.83 | 19.64              | 20.00              |
|                                 | HIGH      |           | 64QAM      | 19.75      | 19.96 | 19.47 | 20.00              |                    |
|                                 | 36        | LOW       | 64QAM      | 19.29      | 19.13 | 19.04 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 18.89      | 19.28 | 19.22 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 18.98      | 19.09 | 19.11 | 19.50              |                    |
|                                 | 75        | LOW       | 64QAM      | 18.78      | 19.23 | 19.10 | 19.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20        | 1         | LOW        | QPSK       | 19.63 | 19.70 | 19.61              | 20.00              |
| MID                             |           |           | QPSK       | 19.76      | 19.68 | 19.60 | 20.00              |                    |
| HIGH                            |           |           | QPSK       | 19.80      | 19.84 | 19.68 | 20.00              |                    |
| 50                              |           | LOW       | QPSK       | 19.67      | 19.76 | 19.91 | 20.00              |                    |
|                                 |           | MID       | QPSK       | 19.92      | 19.94 | 19.56 | 20.00              |                    |
|                                 |           | HIGH      | QPSK       | 19.64      | 19.69 | 19.61 | 20.00              |                    |
| 100                             | LOW       | QPSK      | 19.60      | 19.79      | 19.97 | 20.00 |                    |                    |
| 20                              | 1         | LOW       | Q16        | 19.60      | 19.74 | 19.83 | 20.00              |                    |
|                                 |           | MID       | Q16        | 19.79      | 19.59 | 19.78 | 20.00              |                    |
|                                 |           | HIGH      | Q16        | 19.79      | 19.62 | 19.74 | 20.00              |                    |
|                                 | 50        | LOW       | Q16        | 19.96      | 19.80 | 19.70 | 20.00              |                    |
|                                 |           | MID       | Q16        | 19.72      | 19.88 | 19.82 | 20.00              |                    |
|                                 |           | HIGH      | Q16        | 19.79      | 19.99 | 19.72 | 20.00              |                    |
| 100                             | LOW       | Q16       | 19.91      | 19.62      | 19.75 | 20.00 |                    |                    |
| 20                              | 1         | LOW       | 64QAM      | 19.76      | 19.75 | 19.89 | 20.00              |                    |
|                                 |           | MID       | 64QAM      | 19.87      | 19.80 | 19.63 | 20.00              |                    |
|                                 |           | HIGH      | 64QAM      | 19.77      | 19.90 | 19.57 | 20.00              |                    |
|                                 | 50        | LOW       | 64QAM      | 19.15      | 19.09 | 18.90 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 18.98      | 19.25 | 19.21 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 18.92      | 18.94 | 19.05 | 19.50              |                    |
| 100                             | LOW       | 64QAM     | 18.89      | 19.09      | 19.02 | 19.50 |                    |                    |

| LTE B7-State2&4&6 -Ant.1 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1         | LOW       | QPSK       | 20.29      | 20.21 | 20.20 | 21.00              |                    |
|                                 |           | MID       | QPSK       | 20.17      | 20.16 | 20.10 | 21.00              |                    |
|                                 |           | HIGH      | QPSK       | 20.32      | 20.20 | 20.14 | 21.00              |                    |
|                                 | 12        | LOW       | QPSK       | 20.16      | 20.13 | 19.93 | 21.00              |                    |
|                                 |           | MID       | QPSK       | 20.04      | 20.12 | 20.00 | 21.00              |                    |
|                                 |           | HIGH      | QPSK       | 20.12      | 19.98 | 20.04 | 21.00              |                    |
|                                 | 25        | LOW       | QPSK       | 20.34      | 20.17 | 20.35 | 21.00              |                    |
|                                 | 5         | 1         | LOW        | Q16        | 20.32 | 20.21 | 20.36              | 21.00              |
|                                 |           |           | MID        | Q16        | 20.12 | 20.33 | 20.37              | 21.00              |
| HIGH                            |           |           | Q16        | 20.25      | 20.16 | 20.29 | 21.00              |                    |
| 12                              |           | LOW       | Q16        | 20.30      | 20.12 | 20.26 | 21.00              |                    |
|                                 |           | MID       | Q16        | 20.32      | 20.04 | 20.26 | 21.00              |                    |
|                                 |           | HIGH      | Q16        | 20.21      | 20.28 | 20.24 | 21.00              |                    |
| 25                              |           | LOW       | Q16        | 20.05      | 20.08 | 19.89 | 21.00              |                    |
| 5                               |           | 1         | LOW        | 64QAM      | 20.31 | 20.25 | 20.24              | 21.00              |
|                                 |           |           | MID        | 64QAM      | 20.30 | 20.26 | 20.05              | 21.00              |
|                                 | HIGH      |           | 64QAM      | 20.08      | 20.31 | 20.12 | 21.00              |                    |
|                                 | 12        | LOW       | 64QAM      | 19.05      | 19.05 | 19.05 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 19.25      | 19.19 | 19.07 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 18.99      | 18.89 | 19.14 | 19.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 18.99      | 19.01 | 19.19 | 19.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10        | 1         | LOW        | QPSK       | 20.04 | 20.06 | 20.29              | 21.00              |
| MID                             |           |           | QPSK       | 20.40      | 20.27 | 20.45 | 21.00              |                    |
| HIGH                            |           |           | QPSK       | 20.21      | 20.39 | 20.39 | 21.00              |                    |
| 25                              |           | LOW       | QPSK       | 20.34      | 20.36 | 20.45 | 21.00              |                    |
|                                 |           | MID       | QPSK       | 20.39      | 20.31 | 20.30 | 21.00              |                    |
|                                 |           | HIGH      | QPSK       | 20.30      | 20.33 | 20.39 | 21.00              |                    |
| 50                              | LOW       | QPSK      | 20.08      | 20.39      | 20.35 | 21.00 |                    |                    |
| 10                              | 1         | LOW       | Q16        | 20.27      | 20.26 | 20.20 | 21.00              |                    |
|                                 |           | MID       | Q16        | 20.39      | 20.13 | 20.05 | 21.00              |                    |
|                                 |           | HIGH      | Q16        | 20.15      | 19.97 | 20.10 | 21.00              |                    |
|                                 | 25        | LOW       | Q16        | 20.19      | 20.28 | 20.14 | 21.00              |                    |
|                                 |           | MID       | Q16        | 19.94      | 20.35 | 20.14 | 21.00              |                    |
|                                 |           | HIGH      | Q16        | 20.38      | 20.32 | 20.40 | 21.00              |                    |
|                                 | 50        | LOW       | Q16        | 20.09      | 20.13 | 19.95 | 21.00              |                    |
|                                 | 10        | 1         | LOW        | 64QAM      | 20.32 | 20.26 | 19.87              | 21.00              |
|                                 |           |           | MID        | 64QAM      | 20.11 | 20.42 | 20.01              | 21.00              |
| HIGH                            |           |           | 64QAM      | 20.26      | 19.97 | 20.18 | 21.00              |                    |
| 25                              |           | LOW       | 64QAM      | 18.96      | 19.06 | 18.84 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 18.95      | 18.98 | 19.15 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 19.08      | 18.95 | 18.97 | 19.50              |                    |
| 50                              |           | LOW       | 64QAM      | 19.21      | 19.11 | 18.80 | 19.50              |                    |

| LTE B7-State2&4&6 -Ant.1 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1         | LOW       | QPSK       | 19.99      | 20.08 | 20.35 | 21.00              |                    |
|                                 |           | MID       | QPSK       | 20.40      | 20.49 | 20.40 | 21.00              |                    |
|                                 |           | HIGH      | QPSK       | 20.28      | 20.28 | 20.40 | 21.00              |                    |
|                                 | 36        | LOW       | QPSK       | 20.50      | 20.40 | 20.20 | 21.00              |                    |
|                                 |           | MID       | QPSK       | 20.33      | 20.34 | 20.30 | 21.00              |                    |
|                                 |           | HIGH      | QPSK       | 20.10      | 20.18 | 20.25 | 21.00              |                    |
|                                 | 75        | LOW       | QPSK       | 20.08      | 20.46 | 20.36 | 21.00              |                    |
|                                 | 15        | 1         | LOW        | Q16        | 20.25 | 20.21 | 20.06              | 21.00              |
|                                 |           |           | MID        | Q16        | 20.45 | 20.07 | 19.97              | 21.00              |
| HIGH                            |           |           | Q16        | 20.18      | 20.00 | 20.50 | 21.00              |                    |
| 36                              |           | LOW       | Q16        | 20.41      | 20.32 | 20.07 | 21.00              |                    |
|                                 |           | MID       | Q16        | 20.12      | 20.05 | 19.95 | 21.00              |                    |
|                                 |           | HIGH      | Q16        | 20.16      | 20.39 | 20.30 | 21.00              |                    |
| 75                              |           | LOW       | Q16        | 20.27      | 20.27 | 19.89 | 21.00              |                    |
| 15                              |           | 1         | LOW        | 64QAM      | 20.08 | 20.31 | 20.00              | 21.00              |
|                                 |           |           | MID        | 64QAM      | 20.03 | 20.24 | 19.91              | 21.00              |
|                                 | HIGH      |           | 64QAM      | 20.16      | 20.11 | 19.93 | 21.00              |                    |
|                                 | 36        | LOW       | 64QAM      | 19.12      | 18.92 | 18.85 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 19.10      | 19.04 | 19.16 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 18.91      | 19.07 | 19.11 | 19.50              |                    |
|                                 | 75        | LOW       | 64QAM      | 19.17      | 18.95 | 18.70 | 19.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20        | 1         | LOW        | QPSK       | 20.11 | 20.21 | 20.32              | 21.00              |
| MID                             |           |           | QPSK       | 20.37      | 20.36 | 20.49 | 21.00              |                    |
| HIGH                            |           |           | QPSK       | 20.16      | 20.27 | 20.39 | 21.00              |                    |
| 50                              |           | LOW       | QPSK       | 20.43      | 20.32 | 20.34 | 21.00              |                    |
|                                 |           | MID       | QPSK       | 20.47      | 20.21 | 20.35 | 21.00              |                    |
|                                 |           | HIGH      | QPSK       | 20.17      | 20.30 | 20.31 | 21.00              |                    |
| 100                             | LOW       | QPSK      | 20.17      | 20.32      | 20.49 | 21.00 |                    |                    |
| 20                              | 1         | LOW       | Q16        | 20.24      | 20.24 | 20.05 | 21.00              |                    |
|                                 |           | MID       | Q16        | 20.31      | 20.07 | 20.10 | 21.00              |                    |
|                                 |           | HIGH      | Q16        | 20.20      | 20.06 | 20.44 | 21.00              |                    |
|                                 | 50        | LOW       | Q16        | 20.33      | 20.21 | 20.22 | 21.00              |                    |
|                                 |           | MID       | Q16        | 20.03      | 20.20 | 20.10 | 21.00              |                    |
|                                 |           | HIGH      | Q16        | 20.30      | 20.33 | 20.26 | 21.00              |                    |
| 100                             | LOW       | Q16       | 20.12      | 20.24      | 20.04 | 21.00 |                    |                    |
| 20                              | 1         | LOW       | 64QAM      | 20.19      | 20.16 | 20.00 | 21.00              |                    |
|                                 |           | MID       | 64QAM      | 20.17      | 20.29 | 20.03 | 21.00              |                    |
|                                 |           | HIGH      | 64QAM      | 20.22      | 19.98 | 20.06 | 21.00              |                    |
|                                 | 50        | LOW       | 64QAM      | 19.03      | 18.99 | 18.83 | 19.50              |                    |
|                                 |           | MID       | 64QAM      | 19.04      | 19.01 | 19.10 | 19.50              |                    |
|                                 |           | HIGH      | 64QAM      | 18.93      | 19.05 | 19.10 | 19.50              |                    |
| 100                             | LOW       | 64QAM     | 19.08      | 19.07      | 18.79 | 19.50 |                    |                    |

## 8.3.3 LTE Band7 Output Power

| LTE B7-Full Power -Ant.3 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1               | LOW       | QPSK       | 23.24      | 23.28 | 23.39 | 23.50              |                    |
|                                 |                 | MID       | QPSK       | 23.20      | 23.24 | 23.27 | 23.50              |                    |
|                                 |                 | HIGH      | QPSK       | 23.13      | 23.27 | 23.40 | 23.50              |                    |
|                                 | 12              | LOW       | QPSK       | 22.17      | 22.21 | 22.11 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 22.05      | 22.25 | 22.17 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 22.24      | 22.15 | 22.39 | 22.50              |                    |
|                                 | 25              | LOW       | QPSK       | 22.35      | 22.22 | 22.05 | 22.50              |                    |
|                                 | 5               | 1         | LOW        | Q16        | 22.10 | 22.28 | 22.30              | 22.50              |
|                                 |                 |           | MID        | Q16        | 22.47 | 22.14 | 22.10              | 22.50              |
| HIGH                            |                 |           | Q16        | 22.10      | 22.09 | 22.32 | 22.50              |                    |
| 12                              |                 | LOW       | Q16        | 21.05      | 21.23 | 21.16 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 21.14      | 21.32 | 21.10 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 21.23      | 21.39 | 21.37 | 21.50              |                    |
| 25                              |                 | LOW       | Q16        | 21.09      | 21.17 | 21.17 | 21.50              |                    |
| 5                               |                 | 1         | LOW        | 64QAM      | 21.13 | 21.29 | 21.18              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 21.36 | 21.37 | 21.33              | 21.50              |
|                                 | HIGH            |           | 64QAM      | 21.24      | 21.34 | 21.13 | 21.50              |                    |
|                                 | 12              | LOW       | 64QAM      | 20.04      | 20.18 | 20.10 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.06      | 20.20 | 20.17 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 20.04      | 20.00 | 20.05 | 20.50              |                    |
|                                 | 25              | LOW       | 64QAM      | 20.06      | 20.19 | 20.18 | 20.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10              | 1         | LOW        | QPSK       | 23.36 | 23.23 | 23.23              | 23.50              |
| MID                             |                 |           | QPSK       | 23.26      | 23.23 | 23.36 | 23.50              |                    |
| HIGH                            |                 |           | QPSK       | 23.34      | 23.01 | 23.15 | 23.50              |                    |
| 25                              |                 | LOW       | QPSK       | 22.11      | 22.32 | 22.32 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 22.26      | 22.44 | 22.44 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 22.27      | 22.45 | 22.42 | 22.50              |                    |
| 50                              | LOW             | QPSK      | 22.02      | 22.17      | 22.31 | 22.50 |                    |                    |
| 10                              | 1               | LOW       | Q16        | 22.46      | 22.26 | 22.23 | 22.50              |                    |
|                                 |                 | MID       | Q16        | 22.24      | 22.41 | 22.34 | 22.50              |                    |
|                                 |                 | HIGH      | Q16        | 22.19      | 22.45 | 22.17 | 22.50              |                    |
|                                 | 25              | LOW       | Q16        | 21.40      | 21.04 | 21.16 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 21.40      | 21.25 | 21.00 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 21.24      | 21.07 | 21.10 | 21.50              |                    |
| 50                              | LOW             | Q16       | 21.07      | 21.31      | 21.09 | 21.50 |                    |                    |
| 10                              | 1               | LOW       | 64QAM      | 21.08      | 21.12 | 21.09 | 21.50              |                    |
|                                 |                 | MID       | 64QAM      | 21.38      | 21.03 | 21.25 | 21.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 21.17      | 21.15 | 20.94 | 21.50              |                    |
|                                 | 25              | LOW       | 64QAM      | 20.35      | 20.32 | 20.47 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.24      | 20.25 | 20.44 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 20.37      | 20.44 | 20.09 | 20.50              |                    |
| 50                              | LOW             | 64QAM     | 20.50      | 20.37      | 20.33 | 20.50 |                    |                    |

| LTE B7-Full Power -Ant.3 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1               | LOW       | QPSK       | 23.32      | 23.15 | 23.15 | 23.50              |                    |
|                                 |                 | MID       | QPSK       | 23.29      | 23.30 | 23.33 | 23.50              |                    |
|                                 |                 | HIGH      | QPSK       | 23.16      | 23.25 | 23.31 | 23.50              |                    |
|                                 | 36              | LOW       | QPSK       | 22.15      | 22.14 | 22.41 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 22.25      | 22.38 | 22.21 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 22.07      | 22.27 | 22.44 | 22.50              |                    |
|                                 | 75              | LOW       | QPSK       | 21.87      | 22.31 | 22.31 | 22.50              |                    |
|                                 | 15              | 1         | LOW        | Q16        | 22.26 | 22.05 | 22.30              | 22.50              |
|                                 |                 |           | MID        | Q16        | 22.31 | 22.34 | 22.16              | 22.50              |
| HIGH                            |                 |           | Q16        | 22.22      | 22.42 | 22.01 | 22.50              |                    |
| 36                              |                 | LOW       | Q16        | 21.13      | 21.07 | 20.91 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 21.13      | 21.27 | 21.00 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 21.22      | 20.98 | 21.05 | 21.50              |                    |
| 75                              |                 | LOW       | Q16        | 21.19      | 21.31 | 21.05 | 21.50              |                    |
| 15                              |                 | 1         | LOW        | 64QAM      | 21.37 | 21.05 | 21.14              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 21.31 | 21.10 | 21.47              | 21.50              |
|                                 | HIGH            |           | 64QAM      | 21.22      | 20.92 | 20.98 | 21.50              |                    |
|                                 | 36              | LOW       | 64QAM      | 20.34      | 20.19 | 20.47 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.50      | 20.21 | 20.50 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 20.12      | 20.24 | 20.28 | 20.50              |                    |
|                                 | 75              | LOW       | 64QAM      | 20.32      | 20.20 | 20.25 | 20.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20              | 1         | LOW        | QPSK       | 23.27 | 23.15 | 23.17              | 23.50              |
| MID                             |                 |           | QPSK       | 23.28      | 23.30 | 23.30 | 23.50              |                    |
| HIGH                            |                 |           | QPSK       | 23.25      | 23.16 | 23.28 | 23.50              |                    |
| 50                              |                 | LOW       | QPSK       | 22.24      | 22.19 | 22.33 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 22.11      | 22.35 | 22.32 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 22.14      | 22.39 | 22.39 | 22.50              |                    |
| 100                             | LOW             | QPSK      | 22.01      | 22.21      | 22.35 | 22.50 |                    |                    |
| 20                              | 1               | LOW       | Q16        | 22.38      | 22.19 | 22.24 | 22.50              |                    |
|                                 |                 | MID       | Q16        | 22.35      | 22.39 | 22.31 | 22.50              |                    |
|                                 |                 | HIGH      | Q16        | 22.32      | 22.38 | 22.15 | 22.50              |                    |
|                                 | 50              | LOW       | Q16        | 21.28      | 21.18 | 21.01 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 21.27      | 21.36 | 21.13 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 21.36      | 20.98 | 21.15 | 21.50              |                    |
| 100                             | LOW             | Q16       | 21.19      | 21.37      | 21.20 | 21.50 |                    |                    |
| 20                              | 1               | LOW       | 64QAM      | 21.23      | 21.19 | 21.21 | 21.50              |                    |
|                                 |                 | MID       | 64QAM      | 21.32      | 21.01 | 21.37 | 21.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 21.31      | 21.01 | 21.08 | 21.50              |                    |
|                                 | 50              | LOW       | 64QAM      | 20.50      | 20.34 | 20.35 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.45      | 20.35 | 20.45 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 20.23      | 20.33 | 20.18 | 20.50              |                    |
| 100                             | LOW             | 64QAM     | 20.44      | 20.34      | 20.24 | 20.50 |                    |                    |

| LTE B7-State1&3&5 -Ant.3 (ENDC) |             |           |            |            |       |       |                    |                    |
|---------------------------------|-------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (                     | RB Size     | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1           | LOW       | QPSK       | 16.94      | 17.08 | 17.04 | 17.50              |                    |
|                                 |             | MID       | QPSK       | 17.10      | 17.17 | 17.07 | 17.50              |                    |
|                                 |             | HIGH      | QPSK       | 17.00      | 17.07 | 17.08 | 17.50              |                    |
|                                 | 12          | LOW       | QPSK       | 16.89      | 17.08 | 17.06 | 17.50              |                    |
|                                 |             | MID       | QPSK       | 17.12      | 16.92 | 17.19 | 17.50              |                    |
|                                 |             | HIGH      | QPSK       | 16.89      | 17.20 | 17.15 | 17.50              |                    |
|                                 | 25          | LOW       | QPSK       | 16.92      | 17.05 | 17.11 | 17.50              |                    |
|                                 | 5           | 1         | LOW        | Q16        | 16.96 | 17.14 | 17.33              | 17.50              |
|                                 |             |           | MID        | Q16        | 17.34 | 17.00 | 17.21              | 17.50              |
| HIGH                            |             |           | Q16        | 17.18      | 16.99 | 17.27 | 17.50              |                    |
| 12                              |             | LOW       | Q16        | 16.93      | 17.08 | 17.00 | 17.50              |                    |
|                                 |             | MID       | Q16        | 17.06      | 17.06 | 16.89 | 17.50              |                    |
|                                 |             | HIGH      | Q16        | 17.02      | 17.00 | 16.99 | 17.50              |                    |
| 25                              |             | LOW       | Q16        | 17.05      | 17.05 | 16.85 | 17.50              |                    |
| 5                               |             | 1         | LOW        | 64QAM      | 17.07 | 17.09 | 17.10              | 17.50              |
|                                 |             |           | MID        | 64QAM      | 17.07 | 17.04 | 17.06              | 17.50              |
|                                 | HIGH        |           | 64QAM      | 17.19      | 17.07 | 17.03 | 17.50              |                    |
|                                 | 12          | LOW       | 64QAM      | 17.11      | 17.06 | 17.05 | 17.50              |                    |
|                                 |             | MID       | 64QAM      | 17.03      | 17.07 | 17.21 | 17.50              |                    |
|                                 |             | HIGH      | 64QAM      | 16.93      | 17.10 | 17.23 | 17.50              |                    |
|                                 | 25          | LOW       | 64QAM      | 17.12      | 17.08 | 17.05 | 17.50              |                    |
|                                 | Bandwidth ( | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10          | 1         | LOW        | QPSK       | 16.97 | 16.84 | 16.97              | 17.50              |
| MID                             |             |           | QPSK       | 17.23      | 17.19 | 17.04 | 17.50              |                    |
| HIGH                            |             |           | QPSK       | 16.96      | 17.11 | 16.99 | 17.50              |                    |
| 25                              |             | LOW       | QPSK       | 17.26      | 17.10 | 17.07 | 17.50              |                    |
|                                 |             | MID       | QPSK       | 17.21      | 16.93 | 17.17 | 17.50              |                    |
|                                 |             | HIGH      | QPSK       | 17.09      | 16.88 | 17.08 | 17.50              |                    |
| 50                              | LOW         | QPSK      | 16.95      | 16.91      | 17.09 | 17.50 |                    |                    |
| 10                              | 1           | LOW       | Q16        | 17.29      | 17.15 | 17.21 | 17.50              |                    |
|                                 |             | MID       | Q16        | 16.83      | 17.08 | 17.00 | 17.50              |                    |
|                                 |             | HIGH      | Q16        | 17.11      | 16.92 | 16.87 | 17.50              |                    |
|                                 | 25          | LOW       | Q16        | 16.81      | 16.92 | 16.88 | 17.50              |                    |
|                                 |             | MID       | Q16        | 17.02      | 16.93 | 16.92 | 17.50              |                    |
|                                 |             | HIGH      | Q16        | 16.94      | 17.27 | 17.00 | 17.50              |                    |
| 50                              | LOW         | Q16       | 17.12      | 17.21      | 17.32 | 17.50 |                    |                    |
| 10                              | 1           | LOW       | 64QAM      | 17.08      | 17.09 | 16.89 | 17.50              |                    |
|                                 |             | MID       | 64QAM      | 17.17      | 17.05 | 17.30 | 17.50              |                    |
|                                 |             | HIGH      | 64QAM      | 16.94      | 16.94 | 16.95 | 17.50              |                    |
|                                 | 25          | LOW       | 64QAM      | 17.06      | 17.03 | 16.92 | 17.50              |                    |
|                                 |             | MID       | 64QAM      | 16.87      | 16.55 | 17.06 | 17.50              |                    |
|                                 |             | HIGH      | 64QAM      | 16.87      | 16.87 | 16.98 | 17.50              |                    |
| 50                              | LOW         | 64QAM     | 17.23      | 16.93      | 16.99 | 17.50 |                    |                    |



| LTE B7-State1&3&5 -Ant.3 (ENDC) |             |           |            |            |       |       |                    |                    |
|---------------------------------|-------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (                     | RB Size     | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1           | LOW       | QPSK       | 16.78      | 16.85 | 16.92 | 17.50              |                    |
|                                 |             | MID       | QPSK       | 17.16      | 16.99 | 16.95 | 17.50              |                    |
|                                 |             | HIGH      | QPSK       | 17.13      | 17.13 | 16.96 | 17.50              |                    |
|                                 | 36          | LOW       | QPSK       | 17.20      | 17.05 | 17.11 | 17.50              |                    |
|                                 |             | MID       | QPSK       | 17.21      | 16.94 | 17.17 | 17.50              |                    |
|                                 |             | HIGH      | QPSK       | 17.01      | 16.85 | 17.03 | 17.50              |                    |
|                                 | 75          | LOW       | QPSK       | 17.09      | 17.21 | 17.11 | 17.50              |                    |
|                                 | 15          | 1         | LOW        | Q16        | 17.06 | 16.91 | 17.23              | 17.50              |
|                                 |             |           | MID        | Q16        | 16.99 | 17.22 | 16.92              | 17.50              |
| HIGH                            |             |           | Q16        | 17.10      | 16.92 | 17.13 | 17.50              |                    |
| 36                              |             | LOW       | Q16        | 16.80      | 16.97 | 17.11 | 17.50              |                    |
|                                 |             | MID       | Q16        | 16.88      | 16.85 | 16.80 | 17.50              |                    |
|                                 |             | HIGH      | Q16        | 17.07      | 17.21 | 17.10 | 17.50              |                    |
| 75                              |             | LOW       | Q16        | 17.21      | 17.26 | 17.15 | 17.50              |                    |
| 15                              |             | 1         | LOW        | 64QAM      | 17.06 | 16.81 | 16.84              | 17.50              |
|                                 |             |           | MID        | 64QAM      | 17.11 | 17.13 | 17.20              | 17.50              |
|                                 | HIGH        |           | 64QAM      | 16.96      | 17.09 | 17.12 | 17.50              |                    |
|                                 | 36          | LOW       | 64QAM      | 16.85      | 16.74 | 17.08 | 17.50              |                    |
|                                 |             | MID       | 64QAM      | 16.84      | 16.74 | 17.04 | 17.50              |                    |
|                                 |             | HIGH      | 64QAM      | 16.93      | 16.81 | 16.99 | 17.50              |                    |
|                                 | 75          | LOW       | 64QAM      | 16.98      | 16.87 | 16.84 | 17.50              |                    |
|                                 | Bandwidth ( | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20          | 1         | LOW        | QPSK       | 16.91 | 16.95 | 16.93              | 17.50              |
| MID                             |             |           | QPSK       | 17.11      | 17.12 | 16.98 | 17.50              |                    |
| HIGH                            |             |           | QPSK       | 17.10      | 17.00 | 17.00 | 17.50              |                    |
| 50                              |             | LOW       | QPSK       | 17.23      | 17.08 | 17.11 | 17.50              |                    |
|                                 |             | MID       | QPSK       | 17.10      | 17.25 | 16.97 | 17.50              |                    |
|                                 |             | HIGH      | QPSK       | 16.95      | 16.92 | 17.07 | 17.50              |                    |
| 100                             | LOW         | QPSK      | 17.03      | 17.06      | 17.10 | 17.50 |                    |                    |
| 20                              | 1           | LOW       | Q16        | 17.14      | 17.04 | 17.14 | 17.50              |                    |
|                                 |             | MID       | Q16        | 16.85      | 17.12 | 16.88 | 17.50              |                    |
|                                 |             | HIGH      | Q16        | 17.11      | 16.99 | 16.98 | 17.50              |                    |
|                                 | 50          | LOW       | Q16        | 16.87      | 17.03 | 16.96 | 17.50              |                    |
|                                 |             | MID       | Q16        | 17.00      | 16.83 | 16.83 | 17.50              |                    |
|                                 |             | HIGH      | Q16        | 16.96      | 17.23 | 17.11 | 17.50              |                    |
| 100                             | LOW         | Q16       | 17.10      | 17.22      | 17.20 | 17.50 |                    |                    |
| 20                              | 1           | LOW       | 64QAM      | 17.05      | 16.96 | 16.89 | 17.50              |                    |
|                                 |             | MID       | 64QAM      | 17.10      | 17.10 | 17.15 | 17.50              |                    |
|                                 |             | HIGH      | 64QAM      | 16.93      | 16.95 | 16.99 | 17.50              |                    |
|                                 | 50          | LOW       | 64QAM      | 16.93      | 16.88 | 17.04 | 17.50              |                    |
|                                 |             | MID       | 64QAM      | 16.92      | 16.69 | 17.01 | 17.50              |                    |
|                                 |             | HIGH      | 64QAM      | 16.97      | 16.91 | 16.97 | 17.50              |                    |
| 100                             | LOW         | 64QAM     | 17.08      | 17.00      | 16.94 | 17.50 |                    |                    |

| LTE B7-State2&4&6 -Ant.3 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1         | LOW       | QPSK       | 23.24      | 23.28 | 23.39 | 23.50              |                    |
|                                 |           | MID       | QPSK       | 23.20      | 23.24 | 23.27 | 23.50              |                    |
|                                 |           | HIGH      | QPSK       | 23.13      | 23.27 | 23.40 | 23.50              |                    |
|                                 | 12        | LOW       | QPSK       | 22.17      | 22.21 | 22.11 | 22.50              |                    |
|                                 |           | MID       | QPSK       | 22.05      | 22.25 | 22.17 | 22.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.24      | 22.15 | 22.39 | 22.50              |                    |
|                                 | 25        | LOW       | QPSK       | 22.35      | 22.22 | 22.05 | 22.50              |                    |
|                                 | 5         | 1         | LOW        | Q16        | 22.10 | 22.28 | 22.30              | 22.50              |
|                                 |           |           | MID        | Q16        | 22.47 | 22.14 | 22.10              | 22.50              |
| HIGH                            |           |           | Q16        | 22.10      | 22.09 | 22.32 | 22.50              |                    |
| 12                              |           | LOW       | Q16        | 21.05      | 21.23 | 21.16 | 21.50              |                    |
|                                 |           | MID       | Q16        | 21.14      | 21.32 | 21.10 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 21.23      | 21.39 | 21.37 | 21.50              |                    |
| 25                              |           | LOW       | Q16        | 21.09      | 21.17 | 21.17 | 21.50              |                    |
| 5                               |           | 1         | LOW        | 64QAM      | 21.13 | 21.29 | 21.18              | 21.50              |
|                                 |           |           | MID        | 64QAM      | 21.36 | 21.37 | 21.33              | 21.50              |
|                                 | HIGH      |           | 64QAM      | 21.24      | 21.34 | 21.13 | 21.50              |                    |
|                                 | 12        | LOW       | 64QAM      | 20.04      | 20.18 | 20.10 | 20.50              |                    |
|                                 |           | MID       | 64QAM      | 20.06      | 20.20 | 20.17 | 20.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.04      | 20.00 | 20.05 | 20.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 20.06      | 20.19 | 20.18 | 20.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10        | 1         | LOW        | QPSK       | 23.36 | 23.23 | 23.23              | 23.50              |
| MID                             |           |           | QPSK       | 23.26      | 23.23 | 23.36 | 23.50              |                    |
| HIGH                            |           |           | QPSK       | 23.34      | 23.01 | 23.15 | 23.50              |                    |
| 25                              |           | LOW       | QPSK       | 22.11      | 22.32 | 22.32 | 22.50              |                    |
|                                 |           | MID       | QPSK       | 22.26      | 22.44 | 22.44 | 22.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.27      | 22.45 | 22.42 | 22.50              |                    |
| 50                              | LOW       | QPSK      | 22.02      | 22.17      | 22.31 | 22.50 |                    |                    |
| 10                              | 1         | LOW       | Q16        | 22.46      | 22.26 | 22.23 | 22.50              |                    |
|                                 |           | MID       | Q16        | 22.24      | 22.41 | 22.34 | 22.50              |                    |
|                                 |           | HIGH      | Q16        | 22.19      | 22.45 | 22.17 | 22.50              |                    |
|                                 | 25        | LOW       | Q16        | 21.40      | 21.04 | 21.16 | 21.50              |                    |
|                                 |           | MID       | Q16        | 21.40      | 21.25 | 21.00 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 21.24      | 21.07 | 21.10 | 21.50              |                    |
|                                 | 50        | LOW       | Q16        | 21.07      | 21.31 | 21.09 | 21.50              |                    |
|                                 | 10        | 1         | LOW        | 64QAM      | 21.08 | 21.12 | 21.09              | 21.50              |
|                                 |           |           | MID        | 64QAM      | 21.38 | 21.03 | 21.25              | 21.50              |
| HIGH                            |           |           | 64QAM      | 21.17      | 21.15 | 20.94 | 21.50              |                    |
| 25                              |           | LOW       | 64QAM      | 20.35      | 20.32 | 20.47 | 20.50              |                    |
|                                 |           | MID       | 64QAM      | 20.24      | 20.25 | 20.44 | 20.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.37      | 20.44 | 20.09 | 20.50              |                    |
| 50                              |           | LOW       | 64QAM      | 20.50      | 20.37 | 20.33 | 20.50              |                    |

| LTE B7-State2&4&6 -Ant.3 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1         | LOW       | QPSK       | 23.32      | 23.15 | 23.15 | 23.50              |                    |
|                                 |           | MID       | QPSK       | 23.29      | 23.30 | 23.33 | 23.50              |                    |
|                                 |           | HIGH      | QPSK       | 23.16      | 23.25 | 23.31 | 23.50              |                    |
|                                 | 36        | LOW       | QPSK       | 22.15      | 22.14 | 22.41 | 22.50              |                    |
|                                 |           | MID       | QPSK       | 22.25      | 22.38 | 22.21 | 22.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.07      | 22.27 | 22.44 | 22.50              |                    |
|                                 | 75        | LOW       | QPSK       | 21.87      | 22.31 | 22.31 | 22.50              |                    |
|                                 | 15        | 1         | LOW        | Q16        | 22.26 | 22.05 | 22.30              | 22.50              |
|                                 |           |           | MID        | Q16        | 22.31 | 22.34 | 22.16              | 22.50              |
| HIGH                            |           |           | Q16        | 22.22      | 22.42 | 22.01 | 22.50              |                    |
| 36                              |           | LOW       | Q16        | 21.13      | 21.07 | 20.91 | 21.50              |                    |
|                                 |           | MID       | Q16        | 21.13      | 21.27 | 21.00 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 21.22      | 20.98 | 21.05 | 21.50              |                    |
| 75                              |           | LOW       | Q16        | 21.19      | 21.31 | 21.05 | 21.50              |                    |
| 15                              |           | 1         | LOW        | 64QAM      | 21.37 | 21.05 | 21.14              | 21.50              |
|                                 |           |           | MID        | 64QAM      | 21.31 | 21.10 | 21.47              | 21.50              |
|                                 | HIGH      |           | 64QAM      | 21.22      | 20.92 | 20.98 | 21.50              |                    |
|                                 | 36        | LOW       | 64QAM      | 20.34      | 20.19 | 20.47 | 20.50              |                    |
|                                 |           | MID       | 64QAM      | 20.50      | 20.21 | 20.50 | 20.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.12      | 20.24 | 20.28 | 20.50              |                    |
|                                 | 75        | LOW       | 64QAM      | 20.32      | 20.20 | 20.25 | 20.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20        | 1         | LOW        | QPSK       | 23.27 | 23.15 | 23.17              | 23.50              |
| MID                             |           |           | QPSK       | 23.28      | 23.30 | 23.30 | 23.50              |                    |
| HIGH                            |           |           | QPSK       | 23.25      | 23.16 | 23.28 | 23.50              |                    |
| 50                              |           | LOW       | QPSK       | 22.24      | 22.19 | 22.33 | 22.50              |                    |
|                                 |           | MID       | QPSK       | 22.11      | 22.35 | 22.32 | 22.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.14      | 22.39 | 22.39 | 22.50              |                    |
| 100                             | LOW       | QPSK      | 22.01      | 22.21      | 22.35 | 22.50 |                    |                    |
| 20                              | 1         | LOW       | Q16        | 22.38      | 22.19 | 22.24 | 22.50              |                    |
|                                 |           | MID       | Q16        | 22.35      | 22.39 | 22.31 | 22.50              |                    |
|                                 |           | HIGH      | Q16        | 22.32      | 22.38 | 22.15 | 22.50              |                    |
|                                 | 50        | LOW       | Q16        | 21.28      | 21.18 | 21.01 | 21.50              |                    |
|                                 |           | MID       | Q16        | 21.27      | 21.36 | 21.13 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 21.36      | 20.98 | 21.15 | 21.50              |                    |
| 100                             | LOW       | Q16       | 21.19      | 21.37      | 21.20 | 21.50 |                    |                    |
| 20                              | 1         | LOW       | 64QAM      | 21.23      | 21.19 | 21.21 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 21.32      | 21.01 | 21.37 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 21.31      | 21.01 | 21.08 | 21.50              |                    |
|                                 | 50        | LOW       | 64QAM      | 20.50      | 20.34 | 20.35 | 20.50              |                    |
|                                 |           | MID       | 64QAM      | 20.45      | 20.35 | 20.45 | 20.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.23      | 20.33 | 20.18 | 20.50              |                    |
| 100                             | LOW       | 64QAM     | 20.44      | 20.34      | 20.24 | 20.50 |                    |                    |

## 8.3.3 LTE Band7 Output Power

| LTE B7-Full Power -Ant.4 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1         | LOW       | QPSK       | 22.89      | 22.75 | 22.65 | 23.50              |                    |
|                                 |           | MID       | QPSK       | 22.68      | 22.70 | 22.84 | 23.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.71      | 22.80 | 22.92 | 23.50              |                    |
|                                 | 12        | LOW       | QPSK       | 21.99      | 21.85 | 21.76 | 22.50              |                    |
|                                 |           | MID       | QPSK       | 21.66      | 21.97 | 22.00 | 22.50              |                    |
|                                 |           | HIGH      | QPSK       | 22.03      | 21.65 | 22.04 | 22.50              |                    |
|                                 | 25        | LOW       | QPSK       | 21.68      | 21.76 | 21.61 | 22.50              |                    |
|                                 | 5         | 1         | LOW        | Q16        | 21.82 | 21.81 | 21.61              | 22.50              |
|                                 |           |           | MID        | Q16        | 21.97 | 21.81 | 21.74              | 22.50              |
| HIGH                            |           |           | Q16        | 21.99      | 21.70 | 22.01 | 22.50              |                    |
| 12                              |           | LOW       | Q16        | 20.78      | 20.79 | 20.69 | 21.50              |                    |
|                                 |           | MID       | Q16        | 20.99      | 20.78 | 20.84 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 20.82      | 20.83 | 20.74 | 21.50              |                    |
| 25                              |           | LOW       | Q16        | 20.86      | 20.69 | 20.49 | 21.50              |                    |
| 5                               |           | 1         | LOW        | 64QAM      | 20.57 | 20.75 | 20.72              | 21.50              |
|                                 |           |           | MID        | 64QAM      | 20.71 | 20.85 | 20.95              | 21.50              |
|                                 | HIGH      |           | 64QAM      | 20.58      | 20.59 | 20.63 | 21.50              |                    |
|                                 | 12        | LOW       | 64QAM      | 19.84      | 19.89 | 19.94 | 20.50              |                    |
|                                 |           | MID       | 64QAM      | 19.80      | 19.70 | 19.95 | 20.50              |                    |
|                                 |           | HIGH      | 64QAM      | 19.86      | 19.76 | 19.72 | 20.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 19.81      | 19.95 | 20.08 | 20.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10        | 1         | LOW        | QPSK       | 22.85 | 23.04 | 22.98              | 23.50              |
| MID                             |           |           | QPSK       | 23.08      | 22.83 | 22.97 | 23.50              |                    |
| HIGH                            |           |           | QPSK       | 22.70      | 22.72 | 23.03 | 23.50              |                    |
| 25                              |           | LOW       | QPSK       | 21.79      | 21.84 | 21.77 | 22.50              |                    |
|                                 |           | MID       | QPSK       | 21.79      | 22.08 | 21.74 | 22.50              |                    |
|                                 |           | HIGH      | QPSK       | 21.90      | 21.95 | 21.95 | 22.50              |                    |
| 50                              | LOW       | QPSK      | 21.80      | 22.00      | 22.08 | 22.50 |                    |                    |
| 10                              | 1         | LOW       | Q16        | 21.81      | 21.78 | 21.99 | 22.50              |                    |
|                                 |           | MID       | Q16        | 21.61      | 21.94 | 22.14 | 22.50              |                    |
|                                 |           | HIGH      | Q16        | 21.65      | 21.89 | 21.92 | 22.50              |                    |
|                                 | 25        | LOW       | Q16        | 20.86      | 20.81 | 21.09 | 21.50              |                    |
|                                 |           | MID       | Q16        | 20.90      | 20.95 | 20.89 | 21.50              |                    |
|                                 |           | HIGH      | Q16        | 20.96      | 21.01 | 20.90 | 21.50              |                    |
| 50                              | LOW       | Q16       | 21.10      | 20.95      | 20.71 | 21.50 |                    |                    |
| 10                              | 1         | LOW       | 64QAM      | 20.87      | 20.89 | 20.86 | 21.50              |                    |
|                                 |           | MID       | 64QAM      | 20.76      | 20.73 | 21.03 | 21.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.56      | 20.80 | 20.87 | 21.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 20.10      | 20.17 | 19.92 | 20.50              |                    |
|                                 |           | MID       | 64QAM      | 20.41      | 19.94 | 20.14 | 20.50              |                    |
|                                 |           | HIGH      | 64QAM      | 20.13      | 20.09 | 20.05 | 20.50              |                    |
| 50                              | LOW       | 64QAM     | 19.73      | 19.84      | 20.18 | 20.50 |                    |                    |

| LTE B7-Full Power -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1               | LOW       | QPSK       | 22.89      | 22.75 | 23.03 | 23.50              |                    |
|                                 |                 | MID       | QPSK       | 22.93      | 23.00 | 23.02 | 23.50              |                    |
|                                 |                 | HIGH      | QPSK       | 22.69      | 22.68 | 22.99 | 23.50              |                    |
|                                 | 36              | LOW       | QPSK       | 22.02      | 21.89 | 21.83 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 21.87      | 21.96 | 21.73 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.89      | 21.90 | 21.98 | 22.50              |                    |
|                                 | 75              | LOW       | QPSK       | 21.64      | 21.94 | 22.14 | 22.50              |                    |
|                                 | 15              | 1         | LOW        | Q16        | 21.83 | 21.86 | 21.95              | 22.50              |
|                                 |                 |           | MID        | Q16        | 21.62 | 22.04 | 22.04              | 22.50              |
| HIGH                            |                 |           | Q16        | 21.85      | 21.74 | 21.84 | 22.50              |                    |
| 36                              |                 | LOW       | Q16        | 20.79      | 20.92 | 21.27 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 20.84      | 20.92 | 21.17 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 20.79      | 21.10 | 20.91 | 21.50              |                    |
| 75                              |                 | LOW       | Q16        | 21.22      | 20.96 | 20.67 | 21.50              |                    |
| 15                              |                 | 1         | LOW        | 64QAM      | 20.79 | 20.89 | 20.92              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 20.92 | 20.69 | 21.12              | 21.50              |
|                                 | HIGH            |           | 64QAM      | 20.68      | 20.72 | 20.83 | 21.50              |                    |
|                                 | 36              | LOW       | 64QAM      | 20.16      | 19.98 | 19.94 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.21      | 19.95 | 19.94 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.91      | 20.11 | 20.02 | 20.50              |                    |
|                                 | 75              | LOW       | 64QAM      | 19.82      | 19.98 | 20.25 | 20.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20              | 1         | LOW        | QPSK       | 22.78 | 22.89 | 22.92              | 23.50              |
| MID                             |                 |           | QPSK       | 22.93      | 22.93 | 23.02 | 23.50              |                    |
| HIGH                            |                 |           | QPSK       | 22.72      | 22.81 | 22.92 | 23.50              |                    |
| 50                              |                 | LOW       | QPSK       | 21.87      | 21.93 | 21.80 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 21.90      | 22.02 | 21.77 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.77      | 21.83 | 21.83 | 22.50              |                    |
| 100                             |                 | LOW       | QPSK       | 21.75      | 21.88 | 22.07 | 22.50              |                    |
| 20                              |                 | 1         | LOW        | Q16        | 21.74 | 21.93 | 22.07              | 22.50              |
|                                 |                 |           | MID        | Q16        | 21.73 | 21.97 | 22.11              | 22.50              |
|                                 | HIGH            |           | Q16        | 21.79      | 21.79 | 21.95 | 22.50              |                    |
|                                 | 50              | LOW       | Q16        | 20.92      | 20.96 | 21.16 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 20.83      | 20.89 | 21.02 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 20.83      | 21.02 | 20.90 | 21.50              |                    |
|                                 | 100             | LOW       | Q16        | 21.16      | 20.89 | 20.76 | 21.50              |                    |
|                                 | 20              | 1         | LOW        | 64QAM      | 20.81 | 20.88 | 20.86              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 20.77 | 20.83 | 21.07              | 21.50              |
| HIGH                            |                 |           | 64QAM      | 20.69      | 20.77 | 20.72 | 21.50              |                    |
| 50                              |                 | LOW       | 64QAM      | 20.06      | 20.07 | 20.00 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.27      | 20.07 | 20.06 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 20.04      | 20.11 | 20.09 | 20.50              |                    |
| 100                             |                 | LOW       | 64QAM      | 19.87      | 19.97 | 20.24 | 20.50              |                    |

| LTE B7-State1&3&5 -Ant.4 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1         | LOW       | QPSK       | 18.47      | 18.35 | 18.47 | 19.00              |                    |
|                                 |           | MID       | QPSK       | 18.38      | 18.40 | 18.44 | 19.00              |                    |
|                                 |           | HIGH      | QPSK       | 18.42      | 18.39 | 18.49 | 19.00              |                    |
|                                 | 12        | LOW       | QPSK       | 18.55      | 18.40 | 18.41 | 19.00              |                    |
|                                 |           | MID       | QPSK       | 18.49      | 18.47 | 18.60 | 19.00              |                    |
|                                 |           | HIGH      | QPSK       | 18.22      | 18.24 | 18.50 | 19.00              |                    |
|                                 | 25        | LOW       | QPSK       | 18.49      | 18.35 | 18.20 | 19.00              |                    |
|                                 | 5         | 1         | LOW        | Q16        | 18.24 | 18.40 | 18.44              | 19.00              |
|                                 |           |           | MID        | Q16        | 18.46 | 18.22 | 18.39              | 19.00              |
| HIGH                            |           |           | Q16        | 18.59      | 18.46 | 18.43 | 19.00              |                    |
| 12                              |           | LOW       | Q16        | 18.34      | 18.38 | 18.25 | 19.00              |                    |
|                                 |           | MID       | Q16        | 18.50      | 18.30 | 18.47 | 19.00              |                    |
|                                 |           | HIGH      | Q16        | 18.47      | 18.18 | 18.44 | 19.00              |                    |
| 25                              |           | LOW       | Q16        | 18.39      | 18.32 | 18.16 | 19.00              |                    |
| 5                               |           | 1         | LOW        | 64QAM      | 18.35 | 18.43 | 18.44              | 19.00              |
|                                 |           |           | MID        | 64QAM      | 18.38 | 18.28 | 18.33              | 19.00              |
|                                 | HIGH      |           | 64QAM      | 18.33      | 18.34 | 18.46 | 19.00              |                    |
|                                 | 12        | LOW       | 64QAM      | 18.24      | 18.39 | 18.50 | 19.00              |                    |
|                                 |           | MID       | 64QAM      | 18.47      | 18.39 | 18.44 | 19.00              |                    |
|                                 |           | HIGH      | 64QAM      | 18.28      | 18.48 | 18.53 | 19.00              |                    |
|                                 | 25        | LOW       | 64QAM      | 18.17      | 18.34 | 18.28 | 19.00              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10        | 1         | LOW        | QPSK       | 18.24 | 18.38 | 18.35              | 19.00              |
| MID                             |           |           | QPSK       | 18.42      | 18.54 | 18.24 | 19.00              |                    |
| HIGH                            |           |           | QPSK       | 18.51      | 18.26 | 18.40 | 19.00              |                    |
| 25                              |           | LOW       | QPSK       | 18.54      | 18.23 | 18.44 | 19.00              |                    |
|                                 |           | MID       | QPSK       | 18.60      | 18.36 | 18.63 | 19.00              |                    |
|                                 |           | HIGH      | QPSK       | 18.50      | 18.57 | 18.40 | 19.00              |                    |
| 50                              | LOW       | QPSK      | 18.37      | 18.19      | 18.39 | 19.00 |                    |                    |
| 10                              | 1         | LOW       | Q16        | 18.34      | 18.54 | 18.48 | 19.00              |                    |
|                                 |           | MID       | Q16        | 18.53      | 18.49 | 18.67 | 19.00              |                    |
|                                 |           | HIGH      | Q16        | 18.42      | 18.32 | 18.40 | 19.00              |                    |
|                                 | 25        | LOW       | Q16        | 18.25      | 18.28 | 18.09 | 19.00              |                    |
|                                 |           | MID       | Q16        | 18.24      | 18.41 | 18.29 | 19.00              |                    |
|                                 |           | HIGH      | Q16        | 18.38      | 18.61 | 18.02 | 19.00              |                    |
| 50                              | LOW       | Q16       | 18.31      | 18.40      | 18.50 | 19.00 |                    |                    |
| 10                              | 1         | LOW       | 64QAM      | 18.64      | 18.34 | 18.20 | 19.00              |                    |
|                                 |           | MID       | 64QAM      | 18.60      | 18.32 | 18.56 | 19.00              |                    |
|                                 |           | HIGH      | 64QAM      | 18.37      | 18.45 | 18.42 | 19.00              |                    |
|                                 | 25        | LOW       | 64QAM      | 18.66      | 18.32 | 18.57 | 19.00              |                    |
|                                 |           | MID       | 64QAM      | 18.53      | 18.39 | 18.73 | 19.00              |                    |
|                                 |           | HIGH      | 64QAM      | 18.42      | 18.32 | 18.38 | 19.00              |                    |
| 50                              | LOW       | 64QAM     | 18.61      | 18.58      | 18.21 | 19.00 |                    |                    |

| LTE B7-State1&3&5 -Ant.4 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1         | LOW       | QPSK       | 18.23      | 18.17 | 18.24 | 19.00              |                    |
|                                 |           | MID       | QPSK       | 18.33      | 18.34 | 18.36 | 19.00              |                    |
|                                 |           | HIGH      | QPSK       | 18.41      | 18.41 | 18.50 | 19.00              |                    |
|                                 | 36        | LOW       | QPSK       | 18.61      | 18.28 | 18.39 | 19.00              |                    |
|                                 |           | MID       | QPSK       | 18.60      | 18.64 | 18.61 | 19.00              |                    |
|                                 |           | HIGH      | QPSK       | 18.55      | 18.48 | 18.39 | 19.00              |                    |
|                                 | 75        | LOW       | QPSK       | 18.29      | 18.32 | 18.33 | 19.00              |                    |
|                                 | 15        | 1         | LOW        | Q16        | 18.26 | 18.28 | 18.63              | 19.00              |
|                                 |           |           | MID        | Q16        | 18.70 | 18.41 | 18.51              | 19.00              |
| HIGH                            |           |           | Q16        | 18.51      | 18.34 | 18.50 | 19.00              |                    |
| 36                              |           | LOW       | Q16        | 18.35      | 18.34 | 18.05 | 19.00              |                    |
|                                 |           | MID       | Q16        | 18.31      | 18.38 | 18.48 | 19.00              |                    |
|                                 |           | HIGH      | Q16        | 18.55      | 18.46 | 18.09 | 19.00              |                    |
| 75                              |           | LOW       | Q16        | 18.19      | 18.27 | 18.47 | 19.00              |                    |
| 15                              |           | 1         | LOW        | 64QAM      | 18.55 | 18.47 | 18.37              | 19.00              |
|                                 |           |           | MID        | 64QAM      | 18.63 | 18.24 | 18.30              | 19.00              |
|                                 | HIGH      |           | 64QAM      | 18.40      | 18.35 | 18.30 | 19.00              |                    |
|                                 | 36        | LOW       | 64QAM      | 18.65      | 18.48 | 18.36 | 19.00              |                    |
|                                 |           | MID       | 64QAM      | 18.45      | 18.33 | 18.58 | 19.00              |                    |
|                                 |           | HIGH      | 64QAM      | 18.56      | 18.21 | 18.15 | 19.00              |                    |
|                                 | 75        | LOW       | 64QAM      | 18.56      | 18.59 | 18.39 | 19.00              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20        | 1         | LOW        | QPSK       | 18.28 | 18.32 | 18.24              | 19.00              |
| MID                             |           |           | QPSK       | 18.39      | 18.42 | 18.33 | 19.00              |                    |
| HIGH                            |           |           | QPSK       | 18.39      | 18.28 | 18.36 | 19.00              |                    |
| 50                              |           | LOW       | QPSK       | 18.46      | 18.36 | 18.36 | 19.00              |                    |
|                                 |           | MID       | QPSK       | 18.45      | 18.54 | 18.53 | 19.00              |                    |
|                                 |           | HIGH      | QPSK       | 18.45      | 18.44 | 18.42 | 19.00              |                    |
| 100                             | LOW       | QPSK      | 18.29      | 18.34      | 18.24 | 19.00 |                    |                    |
| 20                              | 1         | LOW       | Q16        | 18.39      | 18.40 | 18.50 | 19.00              |                    |
|                                 |           | MID       | Q16        | 18.55      | 18.36 | 18.57 | 19.00              |                    |
|                                 |           | HIGH      | Q16        | 18.42      | 18.44 | 18.39 | 19.00              |                    |
|                                 | 50        | LOW       | Q16        | 18.22      | 18.36 | 18.17 | 19.00              |                    |
|                                 |           | MID       | Q16        | 18.26      | 18.29 | 18.40 | 19.00              |                    |
|                                 |           | HIGH      | Q16        | 18.42      | 18.47 | 18.16 | 19.00              |                    |
| 100                             | LOW       | Q16       | 18.17      | 18.30      | 18.55 | 19.00 |                    |                    |
| 20                              | 1         | LOW       | 64QAM      | 18.51      | 18.37 | 18.28 | 19.00              |                    |
|                                 |           | MID       | 64QAM      | 18.52      | 18.38 | 18.44 | 19.00              |                    |
|                                 |           | HIGH      | 64QAM      | 18.49      | 18.31 | 18.30 | 19.00              |                    |
|                                 | 50        | LOW       | 64QAM      | 18.62      | 18.43 | 18.49 | 19.00              |                    |
|                                 |           | MID       | 64QAM      | 18.59      | 18.48 | 18.60 | 19.00              |                    |
|                                 |           | HIGH      | 64QAM      | 18.42      | 18.24 | 18.26 | 19.00              |                    |
| 100                             | LOW       | 64QAM     | 18.47      | 18.58      | 18.35 | 19.00 |                    |                    |

| LTE B7-State2&4&6 -Ant.4 (ENDC) |           |           |            |            |       |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1         | LOW       | QPSK       | 13.77      | 13.92 | 13.79 | 14.50              |                    |
|                                 |           | MID       | QPSK       | 13.85      | 13.93 | 14.03 | 14.50              |                    |
|                                 |           | HIGH      | QPSK       | 13.97      | 13.97 | 13.93 | 14.50              |                    |
|                                 | 12        | LOW       | QPSK       | 14.04      | 13.96 | 13.82 | 14.50              |                    |
|                                 |           | MID       | QPSK       | 14.09      | 13.92 | 14.15 | 14.50              |                    |
|                                 |           | HIGH      | QPSK       | 13.99      | 13.98 | 13.78 | 14.50              |                    |
|                                 | 25        | LOW       | QPSK       | 13.98      | 14.00 | 13.93 | 14.50              |                    |
|                                 | 5         | 1         | LOW        | Q16        | 14.01 | 13.90 | 13.97              | 14.50              |
|                                 |           |           | MID        | Q16        | 14.08 | 14.00 | 13.70              | 14.50              |
| HIGH                            |           |           | Q16        | 13.85      | 14.02 | 13.85 | 14.50              |                    |
| 12                              |           | LOW       | Q16        | 13.98      | 13.89 | 13.75 | 14.50              |                    |
|                                 |           | MID       | Q16        | 13.91      | 13.84 | 14.05 | 14.50              |                    |
|                                 |           | HIGH      | Q16        | 14.05      | 13.77 | 13.70 | 14.50              |                    |
| 25                              |           | LOW       | Q16        | 13.63      | 13.82 | 13.80 | 14.50              |                    |
| 5                               |           | 1         | LOW        | 64QAM      | 14.09 | 13.89 | 13.95              | 14.50              |
|                                 |           |           | MID        | 64QAM      | 13.90 | 13.76 | 14.06              | 14.50              |
|                                 | HIGH      |           | 64QAM      | 13.87      | 14.04 | 13.90 | 14.50              |                    |
|                                 | 12        | LOW       | 64QAM      | 14.12      | 13.92 | 14.00 | 14.50              |                    |
|                                 |           | MID       | 64QAM      | 14.09      | 13.79 | 14.01 | 14.50              |                    |
|                                 |           | HIGH      | 64QAM      | 14.05      | 14.03 | 14.09 | 14.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 14.07      | 13.98 | 13.79 | 14.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10        | 1         | LOW        | QPSK       | 13.75 | 14.03 | 13.89              | 14.50              |
| MID                             |           |           | QPSK       | 13.64      | 13.86 | 13.73 | 14.50              |                    |
| HIGH                            |           |           | QPSK       | 13.83      | 13.86 | 14.06 | 14.50              |                    |
| 25                              |           | LOW       | QPSK       | 13.92      | 14.05 | 14.08 | 14.50              |                    |
|                                 |           | MID       | QPSK       | 14.11      | 14.06 | 13.96 | 14.50              |                    |
|                                 |           | HIGH      | QPSK       | 13.69      | 13.92 | 13.87 | 14.50              |                    |
| 50                              | LOW       | QPSK      | 13.83      | 14.05      | 14.10 | 14.50 |                    |                    |
| 10                              | 1         | LOW       | Q16        | 14.05      | 14.10 | 14.15 | 14.50              |                    |
|                                 |           | MID       | Q16        | 13.99      | 14.18 | 13.63 | 14.50              |                    |
|                                 |           | HIGH      | Q16        | 14.18      | 14.12 | 14.17 | 14.50              |                    |
|                                 | 25        | LOW       | Q16        | 13.80      | 14.05 | 14.18 | 14.50              |                    |
|                                 |           | MID       | Q16        | 13.79      | 13.80 | 13.98 | 14.50              |                    |
|                                 |           | HIGH      | Q16        | 14.18      | 13.71 | 13.96 | 14.50              |                    |
| 50                              | LOW       | Q16       | 13.92      | 14.11      | 14.25 | 14.50 |                    |                    |
| 10                              | 1         | LOW       | 64QAM      | 13.84      | 13.82 | 13.75 | 14.50              |                    |
|                                 |           | MID       | 64QAM      | 13.92      | 14.22 | 13.68 | 14.50              |                    |
|                                 |           | HIGH      | 64QAM      | 13.86      | 14.01 | 13.97 | 14.50              |                    |
|                                 | 25        | LOW       | 64QAM      | 13.84      | 13.88 | 13.95 | 14.50              |                    |
|                                 |           | MID       | 64QAM      | 14.20      | 14.10 | 14.10 | 14.50              |                    |
|                                 |           | HIGH      | 64QAM      | 14.13      | 13.58 | 14.07 | 14.50              |                    |
| 50                              | LOW       | 64QAM     | 13.78      | 13.75      | 14.24 | 14.50 |                    |                    |



| LTE B7-State2&4&6 -Ant.4 (ENDC) |           |           |            |            |              |       |                    |                    |
|---------------------------------|-----------|-----------|------------|------------|--------------|-------|--------------------|--------------------|
| Bandwidth                       | RB Size   | RB offset | Modulation | 20825      | 21100        | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1         | LOW       | QPSK       | 14.04      | 13.97        | 13.89 | 14.50              |                    |
|                                 |           | MID       | QPSK       | 13.74      | 14.01        | 14.01 | 14.50              |                    |
|                                 |           | HIGH      | QPSK       | 13.95      | 13.82        | 14.06 | 14.50              |                    |
|                                 | 36        | LOW       | QPSK       | 13.83      | 13.89        | 14.30 | 14.50              |                    |
|                                 |           | MID       | QPSK       | 13.91      | 14.17        | 13.98 | 14.50              |                    |
|                                 |           | HIGH      | QPSK       | 13.72      | 13.78        | 14.11 | 14.50              |                    |
|                                 | 75        | LOW       | QPSK       | 13.98      | 13.93        | 13.97 | 14.50              |                    |
|                                 | 15        | 1         | LOW        | Q16        | 13.94        | 13.83 | 14.23              | 14.50              |
|                                 |           |           | MID        | Q16        | 13.71        | 14.14 | 13.87              | 14.50              |
| HIGH                            |           |           | Q16        | 14.20      | 13.99        | 14.19 | 14.50              |                    |
| 36                              |           | LOW       | Q16        | 13.84      | 14.01        | 14.22 | 14.50              |                    |
|                                 |           | MID       | Q16        | 14.00      | 13.75        | 13.98 | 14.50              |                    |
|                                 |           | HIGH      | Q16        | 14.12      | 13.78        | 13.99 | 14.50              |                    |
| 75                              |           | LOW       | Q16        | 13.81      | 13.97        | 14.33 | 14.50              |                    |
| 15                              |           | 1         | LOW        | 64QAM      | 13.85        | 13.81 | 13.91              | 14.50              |
|                                 |           |           | MID        | 64QAM      | 13.96        | 13.98 | 13.75              | 14.50              |
|                                 | HIGH      |           | 64QAM      | 13.77      | 14.02        | 13.71 | 14.50              |                    |
|                                 | 36        | LOW       | 64QAM      | 13.89      | 13.81        | 14.00 | 14.50              |                    |
|                                 |           | MID       | 64QAM      | 13.99      | 13.88        | 13.89 | 14.50              |                    |
|                                 |           | HIGH      | 64QAM      | 14.18      | 13.74        | 14.10 | 14.50              |                    |
|                                 | 75        | LOW       | 64QAM      | 13.74      | 13.89        | 14.16 | 14.50              |                    |
|                                 | Bandwidth | RB Size   | RB offset  | Modulation | 20850        | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20        | 1         | LOW        | QPSK       | 13.89        | 13.92 | 13.91              | 14.50              |
| MID                             |           |           | QPSK       | 13.74      | 13.89        | 13.87 | 14.50              |                    |
| HIGH                            |           |           | QPSK       | 13.94      | <b>14.01</b> | 13.96 | 14.50              |                    |
| 50                              |           | LOW       | QPSK       | 13.86      | 13.98        | 14.09 | 14.50              |                    |
|                                 |           | MID       | QPSK       | 13.99      | <b>14.15</b> | 13.89 | 14.50              |                    |
|                                 |           | HIGH      | QPSK       | 13.84      | 13.84        | 14.00 | 14.50              |                    |
| 100                             | LOW       | QPSK      | 13.98      | 13.98      | 14.01        | 14.50 |                    |                    |
| 20                              | 1         | LOW       | Q16        | 13.94      | 13.95        | 14.08 | 14.50              |                    |
|                                 |           | MID       | Q16        | 13.84      | 14.04        | 13.76 | 14.50              |                    |
|                                 |           | HIGH      | Q16        | 14.15      | 14.10        | 14.09 | 14.50              |                    |
|                                 | 50        | LOW       | Q16        | 13.92      | 13.99        | 14.10 | 14.50              |                    |
|                                 |           | MID       | Q16        | 13.85      | 13.82        | 13.91 | 14.50              |                    |
|                                 |           | HIGH      | Q16        | 14.16      | 13.80        | 13.92 | 14.50              |                    |
|                                 | 100       | LOW       | Q16        | 13.91      | 14.08        | 14.18 | 14.50              |                    |
|                                 | 20        | 1         | LOW        | 64QAM      | 13.85        | 13.90 | 13.80              | 14.50              |
|                                 |           |           | MID        | 64QAM      | 13.85        | 14.07 | 13.71              | 14.50              |
| HIGH                            |           |           | 64QAM      | 13.82      | 14.05        | 13.86 | 14.50              |                    |
| 50                              |           | LOW       | 64QAM      | 13.99      | 13.89        | 13.88 | 14.50              |                    |
|                                 |           | MID       | 64QAM      | 14.09      | 14.03        | 13.96 | 14.50              |                    |
|                                 |           | HIGH      | 64QAM      | 14.03      | 13.70        | 13.99 | 14.50              |                    |
| 100                             |           | LOW       | 64QAM      | 13.70      | 13.87        | 14.09 | 14.50              |                    |

### 8.3.3 LTE Band7 Output Power

| LTE B7-Full Power -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1               | LOW       | QPSK       | 21.94      | 21.93 | 21.92 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 22.09      | 21.96 | 22.04 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.98      | 21.95 | 21.96 | 22.50              |                    |
|                                 | 12              | LOW       | QPSK       | 22.05      | 21.90 | 21.88 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 22.06      | 21.97 | 21.98 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.87      | 21.72 | 21.94 | 22.50              |                    |
|                                 | 25              | LOW       | QPSK       | 21.71      | 21.89 | 21.99 | 22.50              |                    |
|                                 | 5               | 1         | LOW        | Q16        | 21.95 | 22.02 | 21.91              | 22.50              |
|                                 |                 |           | MID        | Q16        | 22.17 | 22.15 | 21.90              | 22.50              |
| HIGH                            |                 |           | Q16        | 22.20      | 22.03 | 22.09 | 22.50              |                    |
| 12                              |                 | LOW       | Q16        | 20.84      | 20.90 | 20.96 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 21.08      | 20.71 | 20.88 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 20.71      | 20.99 | 21.07 | 21.50              |                    |
| 25                              |                 | LOW       | Q16        | 20.89      | 20.86 | 20.70 | 21.50              |                    |
| 5                               |                 | 1         | LOW        | 64QAM      | 20.96 | 20.95 | 21.05              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 20.92 | 20.96 | 20.92              | 21.50              |
|                                 | HIGH            |           | 64QAM      | 21.04      | 20.79 | 21.08 | 21.50              |                    |
|                                 | 12              | LOW       | 64QAM      | 19.97      | 19.93 | 20.07 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 19.86      | 19.78 | 19.94 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.92      | 19.91 | 19.73 | 20.50              |                    |
|                                 | 25              | LOW       | 64QAM      | 19.88      | 19.87 | 19.96 | 20.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10              | 1         | LOW        | QPSK       | 21.81 | 21.97 | 22.07              | 22.50              |
| MID                             |                 |           | QPSK       | 22.04      | 21.89 | 21.87 | 22.50              |                    |
| HIGH                            |                 |           | QPSK       | 22.01      | 21.87 | 21.58 | 22.50              |                    |
| 25                              |                 | LOW       | QPSK       | 21.90      | 21.81 | 22.03 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.86      | 22.08 | 22.20 | 22.50              |                    |
| 50                              |                 | LOW       | QPSK       | 22.25      | 21.92 | 22.07 | 22.50              |                    |
| 10                              | 1               | LOW       | Q16        | 21.71      | 22.04 | 22.11 | 22.50              |                    |
|                                 |                 | MID       | Q16        | 21.92      | 21.96 | 21.92 | 22.50              |                    |
|                                 |                 | HIGH      | Q16        | 21.71      | 22.02 | 22.04 | 22.50              |                    |
|                                 | 25              | LOW       | Q16        | 21.07      | 20.86 | 20.75 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 21.04      | 21.17 | 20.96 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 21.17      | 20.77 | 20.82 | 21.50              |                    |
|                                 | 50              | LOW       | Q16        | 21.06      | 21.04 | 21.04 | 21.50              |                    |
|                                 | 10              | 1         | LOW        | 64QAM      | 21.07 | 21.01 | 20.96              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 20.77 | 20.93 | 20.78              | 21.50              |
| HIGH                            |                 |           | 64QAM      | 20.95      | 20.90 | 20.62 | 21.50              |                    |
| 25                              |                 | LOW       | 64QAM      | 19.66      | 19.65 | 19.70 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 19.71      | 19.94 | 19.65 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.61      | 19.92 | 19.53 | 20.50              |                    |
| 50                              |                 | LOW       | 64QAM      | 19.77      | 19.85 | 19.69 | 20.50              |                    |

| LTE B7-Full Power -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1               | LOW       | QPSK       | 21.66      | 21.83 | 21.87 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 22.03      | 21.99 | 21.86 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.77      | 21.71 | 21.83 | 22.50              |                    |
|                                 | 36              | LOW       | QPSK       | 22.03      | 22.08 | 22.01 | 22.50              |                    |
|                                 |                 | MID       | QPSK       | 21.84      | 22.27 | 22.10 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 22.28      | 21.93 | 21.90 | 22.50              |                    |
|                                 | 75              | LOW       | QPSK       | 21.93      | 21.92 | 21.77 | 22.50              |                    |
|                                 | 15              | 1         | LOW        | Q16        | 21.63 | 21.96 | 22.12              | 22.50              |
|                                 |                 |           | MID        | Q16        | 21.99 | 22.03 | 21.94              | 22.50              |
| HIGH                            |                 |           | Q16        | 21.64      | 22.05 | 22.07 | 22.50              |                    |
| 36                              |                 | LOW       | Q16        | 21.15      | 21.01 | 20.76 | 21.50              |                    |
|                                 |                 | MID       | Q16        | 20.97      | 20.98 | 21.26 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 21.05      | 20.89 | 20.96 | 21.50              |                    |
| 75                              |                 | LOW       | Q16        | 20.93      | 20.88 | 20.98 | 21.50              |                    |
| 15                              |                 | 1         | LOW        | 64QAM      | 21.13 | 20.79 | 21.00              | 21.50              |
|                                 |                 |           | MID        | 64QAM      | 20.75 | 20.74 | 20.97              | 21.50              |
|                                 | HIGH            |           | 64QAM      | 20.94      | 20.97 | 20.64 | 21.50              |                    |
|                                 | 36              | LOW       | 64QAM      | 19.60      | 19.80 | 19.79 | 20.50              |                    |
|                                 |                 | MID       | 64QAM      | 19.61      | 19.72 | 19.63 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.50      | 19.96 | 19.56 | 20.50              |                    |
|                                 | 75              | LOW       | 64QAM      | 19.63      | 19.83 | 19.62 | 20.50              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20              | 1         | LOW        | QPSK       | 21.80 | 21.88 | 22.00              | 22.50              |
| MID                             |                 |           | QPSK       | 21.97      | 21.94 | 22.01 | 22.50              |                    |
| HIGH                            |                 |           | QPSK       | 21.88      | 21.84 | 21.69 | 22.50              |                    |
| 50                              |                 | LOW       | QPSK       | 21.91      | 21.96 | 22.10 | 22.50              |                    |
|                                 |                 | HIGH      | QPSK       | 21.98      | 22.16 | 22.14 | 22.50              |                    |
| 100                             |                 | LOW       | QPSK       | 21.96      | 21.92 | 21.85 | 22.50              |                    |
| 20                              | 1               | LOW       | Q16        | 21.78      | 21.93 | 22.11 | 22.50              |                    |
|                                 |                 | MID       | Q16        | 22.00      | 21.99 | 21.82 | 22.50              |                    |
|                                 |                 | HIGH      | Q16        | 21.75      | 22.05 | 21.92 | 22.50              |                    |
|                                 | 50              | LOW       | Q16        | 21.02      | 20.94 | 20.85 | 21.50              |                    |
|                                 |                 | HIGH      | Q16        | 20.91      | 21.12 | 21.11 | 21.50              |                    |
|                                 | 100             | LOW       | Q16        | 21.07      | 20.87 | 20.81 | 21.50              |                    |
| 20                              | 1               | LOW       | 64QAM      | 21.07      | 20.87 | 20.90 | 21.50              |                    |
|                                 |                 | MID       | 64QAM      | 20.86      | 20.82 | 20.83 | 21.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 20.84      | 21.04 | 20.70 | 21.50              |                    |
|                                 | 50              | LOW       | 64QAM      | 19.72      | 19.67 | 19.67 | 20.50              |                    |
|                                 |                 | HIGH      | 64QAM      | 19.69      | 19.82 | 19.68 | 20.50              |                    |
|                                 | 100             | LOW       | 64QAM      | 19.55      | 19.81 | 19.59 | 20.50              |                    |
| 100                             | LOW             | 64QAM     | 19.72      | 19.75      | 19.64 | 20.50 |                    |                    |

| LTE B7-State1&3&5 -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1               | LOW       | QPSK       | 17.57      | 17.46 | 17.37 | 18.00              |                    |
|                                 |                 | MID       | QPSK       | 17.44      | 17.38 | 17.52 | 18.00              |                    |
|                                 |                 | HIGH      | QPSK       | 17.34      | 17.35 | 17.22 | 18.00              |                    |
|                                 | 12              | LOW       | QPSK       | 17.38      | 17.40 | 17.23 | 18.00              |                    |
|                                 |                 | MID       | QPSK       | 17.48      | 17.43 | 17.30 | 18.00              |                    |
|                                 |                 | HIGH      | QPSK       | 17.27      | 17.54 | 17.32 | 18.00              |                    |
|                                 | 25              | LOW       | QPSK       | 17.20      | 17.38 | 17.33 | 18.00              |                    |
|                                 | 5               | 1         | LOW        | Q16        | 17.24 | 17.36 | 17.37              | 18.00              |
|                                 |                 |           | MID        | Q16        | 17.27 | 17.36 | 17.48              | 18.00              |
| HIGH                            |                 |           | Q16        | 17.35      | 17.24 | 17.28 | 18.00              |                    |
| 12                              |                 | LOW       | Q16        | 17.22      | 17.42 | 17.36 | 18.00              |                    |
|                                 |                 | MID       | Q16        | 17.37      | 17.53 | 17.51 | 18.00              |                    |
|                                 |                 | HIGH      | Q16        | 17.43      | 17.35 | 17.60 | 18.00              |                    |
| 25                              |                 | LOW       | Q16        | 17.14      | 17.34 | 17.39 | 18.00              |                    |
| 5                               |                 | 1         | LOW        | 64QAM      | 17.69 | 17.50 | 17.60              | 18.00              |
|                                 |                 |           | MID        | 64QAM      | 17.58 | 17.41 | 17.45              | 18.00              |
|                                 | HIGH            |           | 64QAM      | 17.61      | 17.45 | 17.62 | 18.00              |                    |
|                                 | 12              | LOW       | 64QAM      | 17.31      | 17.42 | 17.50 | 18.00              |                    |
|                                 |                 | MID       | 64QAM      | 17.53      | 17.24 | 17.45 | 18.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 17.39      | 17.33 | 17.26 | 18.00              |                    |
|                                 | 25              | LOW       | 64QAM      | 17.36      | 17.43 | 17.37 | 18.00              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10              | 1         | LOW        | QPSK       | 17.22 | 17.48 | 17.20              | 18.00              |
| MID                             |                 |           | QPSK       | 17.43      | 17.27 | 17.57 | 18.00              |                    |
| HIGH                            |                 |           | QPSK       | 17.33      | 17.37 | 17.20 | 18.00              |                    |
| 25                              |                 | LOW       | QPSK       | 17.45      | 17.36 | 17.33 | 18.00              |                    |
|                                 |                 | HIGH      | QPSK       | 17.24      | 17.41 | 17.64 | 18.00              |                    |
| 50                              |                 | LOW       | QPSK       | 17.69      | 17.22 | 17.27 | 18.00              |                    |
| 10                              | 1               | LOW       | Q16        | 17.69      | 17.44 | 17.57 | 18.00              |                    |
|                                 |                 | MID       | Q16        | 17.46      | 17.19 | 17.51 | 18.00              |                    |
|                                 |                 | HIGH      | Q16        | 17.59      | 17.43 | 17.68 | 18.00              |                    |
|                                 | 25              | LOW       | Q16        | 17.32      | 17.38 | 17.40 | 18.00              |                    |
|                                 |                 | HIGH      | Q16        | 17.24      | 17.46 | 17.15 | 18.00              |                    |
|                                 | 50              | LOW       | Q16        | 17.15      | 17.39 | 17.18 | 18.00              |                    |
|                                 | 10              | 1         | LOW        | 64QAM      | 17.68 | 17.39 | 17.42              | 18.00              |
|                                 |                 |           | MID        | 64QAM      | 17.65 | 17.61 | 17.73              | 18.00              |
|                                 |                 |           | HIGH       | 64QAM      | 17.41 | 17.37 | 17.49              | 18.00              |
| 25                              |                 | LOW       | 64QAM      | 17.67      | 17.56 | 17.38 | 18.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 17.54      | 17.61 | 17.54 | 18.00              |                    |
| 50                              |                 | LOW       | 64QAM      | 17.31      | 17.54 | 17.41 | 18.00              |                    |
| 50                              |                 | LOW       | 64QAM      | 17.37      | 17.45 | 17.46 | 18.00              |                    |

| LTE B7-State1&3&5 -Ant.4 (ENDC) |                 |           |            |            |       |       |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1               | LOW       | QPSK       | 17.14      | 17.20 | 17.31 | 18.00              |                    |
|                                 |                 | MID       | QPSK       | 17.48      | 17.41 | 17.52 | 18.00              |                    |
|                                 |                 | HIGH      | QPSK       | 17.42      | 17.44 | 17.42 | 18.00              |                    |
|                                 | 36              | LOW       | QPSK       | 17.69      | 17.42 | 17.32 | 18.00              |                    |
|                                 |                 | MID       | QPSK       | 17.15      | 17.37 | 17.57 | 18.00              |                    |
|                                 |                 | HIGH      | QPSK       | 17.60      | 17.22 | 17.29 | 18.00              |                    |
|                                 | 75              | LOW       | QPSK       | 17.55      | 17.51 | 17.28 | 18.00              |                    |
|                                 | 15              | 1         | LOW        | Q16        | 17.55 | 17.26 | 17.59              | 18.00              |
|                                 |                 |           | MID        | Q16        | 17.48 | 17.14 | 17.66              | 18.00              |
| HIGH                            |                 |           | Q16        | 17.56      | 17.44 | 17.58 | 18.00              |                    |
| 36                              |                 | LOW       | Q16        | 17.26      | 17.27 | 17.58 | 18.00              |                    |
|                                 |                 | MID       | Q16        | 17.19      | 17.44 | 17.05 | 18.00              |                    |
|                                 |                 | HIGH      | Q16        | 17.41      | 17.30 | 17.36 | 18.00              |                    |
| 75                              |                 | LOW       | Q16        | 17.51      | 17.18 | 17.23 | 18.00              |                    |
| 15                              |                 | 1         | LOW        | 64QAM      | 17.58 | 17.33 | 17.28              | 18.00              |
|                                 |                 |           | MID        | 64QAM      | 17.53 | 17.54 | 17.47              | 18.00              |
|                                 | HIGH            |           | 64QAM      | 17.46      | 17.35 | 17.71 | 18.00              |                    |
|                                 | 36              | LOW       | 64QAM      | 17.43      | 17.55 | 17.46 | 18.00              |                    |
|                                 |                 | MID       | 64QAM      | 17.45      | 17.42 | 17.48 | 18.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 17.31      | 17.54 | 17.44 | 18.00              |                    |
|                                 | 75              | LOW       | 64QAM      | 17.36      | 17.45 | 17.54 | 18.00              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20              | 1         | LOW        | QPSK       | 17.21 | 17.35 | 17.31              | 18.00              |
| MID                             |                 |           | QPSK       | 17.38      | 17.48 | 17.40 | 18.00              |                    |
| HIGH                            |                 |           | QPSK       | 17.37      | 17.38 | 17.30 | 18.00              |                    |
| 50                              |                 | LOW       | QPSK       | 17.54      | 17.40 | 17.26 | 18.00              |                    |
|                                 |                 | HIGH      | QPSK       | 17.25      | 17.58 | 17.47 | 18.00              |                    |
| 100                             |                 | LOW       | QPSK       | 17.57      | 17.33 | 17.39 | 18.00              |                    |
| 20                              | 1               | LOW       | Q16        | 17.56      | 17.41 | 17.60 | 18.00              |                    |
|                                 |                 | MID       | Q16        | 17.51      | 17.27 | 17.51 | 18.00              |                    |
|                                 |                 | HIGH      | Q16        | 17.50      | 17.52 | 17.53 | 18.00              |                    |
|                                 | 50              | LOW       | Q16        | 17.29      | 17.38 | 17.52 | 18.00              |                    |
|                                 |                 | HIGH      | Q16        | 17.21      | 17.44 | 17.19 | 18.00              |                    |
|                                 | 100             | LOW       | Q16        | 17.26      | 17.45 | 17.32 | 18.00              |                    |
| 20                              | 1               | LOW       | 64QAM      | 17.36      | 17.20 | 17.21 | 18.00              |                    |
|                                 |                 | MID       | 64QAM      | 17.55      | 17.40 | 17.42 | 18.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 17.59      | 17.49 | 17.60 | 18.00              |                    |
|                                 | 50              | LOW       | 64QAM      | 17.45      | 17.46 | 17.56 | 18.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 17.78      | 17.58 | 17.40 | 18.00              |                    |
|                                 | 100             | LOW       | 64QAM      | 17.68      | 17.57 | 17.54 | 18.00              |                    |
| 100                             | LOW             | 64QAM     | 17.40      | 17.49      | 17.49 | 18.00 |                    |                    |
| 100                             | LOW             | 64QAM     | 17.46      | 17.58      | 17.53 | 18.00 |                    |                    |

| LTE B7-State2&4&6 -Ant.4 (ENDC) |             |           |            |            |       |       |                    |                    |
|---------------------------------|-------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (                     | RB Size     | RB offset | Modulation | 20775      | 21100 | 21425 | Tune-up power(dBm) |                    |
| 5                               | 1           | LOW       | QPSK       | 13.77      | 13.92 | 13.79 | 14.50              |                    |
|                                 |             | MID       | QPSK       | 13.85      | 13.93 | 14.03 | 14.50              |                    |
|                                 |             | HIGH      | QPSK       | 13.97      | 13.97 | 13.93 | 14.50              |                    |
|                                 | 12          | LOW       | QPSK       | 14.04      | 13.96 | 13.82 | 14.50              |                    |
|                                 |             | MID       | QPSK       | 14.09      | 13.92 | 14.15 | 14.50              |                    |
|                                 |             | HIGH      | QPSK       | 13.99      | 13.98 | 13.78 | 14.50              |                    |
|                                 | 25          | LOW       | QPSK       | 13.98      | 14.00 | 13.93 | 14.50              |                    |
|                                 | 5           | 1         | LOW        | Q16        | 14.01 | 13.90 | 13.97              | 14.50              |
|                                 |             |           | MID        | Q16        | 14.08 | 14.00 | 13.70              | 14.50              |
| HIGH                            |             |           | Q16        | 13.85      | 14.02 | 13.85 | 14.50              |                    |
| 12                              |             | LOW       | Q16        | 13.98      | 13.89 | 13.75 | 14.50              |                    |
|                                 |             | MID       | Q16        | 13.91      | 13.84 | 14.05 | 14.50              |                    |
|                                 |             | HIGH      | Q16        | 14.05      | 13.77 | 13.70 | 14.50              |                    |
| 25                              |             | LOW       | Q16        | 13.63      | 13.82 | 13.80 | 14.50              |                    |
| 5                               |             | 1         | LOW        | 64QAM      | 14.09 | 13.89 | 13.95              | 14.50              |
|                                 |             |           | MID        | 64QAM      | 13.90 | 13.76 | 14.06              | 14.50              |
|                                 | HIGH        |           | 64QAM      | 13.87      | 14.04 | 13.90 | 14.50              |                    |
|                                 | 12          | LOW       | 64QAM      | 14.12      | 13.92 | 14.00 | 14.50              |                    |
|                                 |             | MID       | 64QAM      | 14.09      | 13.79 | 14.01 | 14.50              |                    |
|                                 |             | HIGH      | 64QAM      | 14.05      | 14.03 | 14.09 | 14.50              |                    |
|                                 | 25          | LOW       | 64QAM      | 14.07      | 13.98 | 13.79 | 14.50              |                    |
|                                 | Bandwidth ( | RB Size   | RB offset  | Modulation | 20800 | 21100 | 21400              | Tune-up power(dBm) |
|                                 | 10          | 1         | LOW        | QPSK       | 13.75 | 14.03 | 13.89              | 14.50              |
| MID                             |             |           | QPSK       | 13.64      | 13.86 | 13.73 | 14.50              |                    |
| HIGH                            |             |           | QPSK       | 13.83      | 13.86 | 14.06 | 14.50              |                    |
| 25                              |             | LOW       | QPSK       | 13.92      | 14.05 | 14.08 | 14.50              |                    |
|                                 |             | MID       | QPSK       | 14.11      | 14.06 | 13.96 | 14.50              |                    |
|                                 |             | HIGH      | QPSK       | 13.69      | 13.92 | 13.87 | 14.50              |                    |
| 50                              |             | LOW       | QPSK       | 13.83      | 14.05 | 14.10 | 14.50              |                    |
| 10                              |             | 1         | LOW        | Q16        | 14.05 | 14.10 | 14.15              | 14.50              |
|                                 |             |           | MID        | Q16        | 13.99 | 14.18 | 13.63              | 14.50              |
|                                 | HIGH        |           | Q16        | 14.18      | 14.12 | 14.17 | 14.50              |                    |
|                                 | 25          | LOW       | Q16        | 13.80      | 14.05 | 14.18 | 14.50              |                    |
|                                 |             | MID       | Q16        | 13.79      | 13.80 | 13.98 | 14.50              |                    |
|                                 |             | HIGH      | Q16        | 14.18      | 13.71 | 13.96 | 14.50              |                    |
|                                 | 50          | LOW       | Q16        | 13.92      | 14.11 | 14.25 | 14.50              |                    |
|                                 | 10          | 1         | LOW        | 64QAM      | 13.84 | 13.82 | 13.75              | 14.50              |
|                                 |             |           | MID        | 64QAM      | 13.92 | 14.22 | 13.68              | 14.50              |
| HIGH                            |             |           | 64QAM      | 13.86      | 14.01 | 13.97 | 14.50              |                    |
| 25                              |             | LOW       | 64QAM      | 13.84      | 13.88 | 13.95 | 14.50              |                    |
|                                 |             | MID       | 64QAM      | 14.20      | 14.10 | 14.10 | 14.50              |                    |
|                                 |             | HIGH      | 64QAM      | 14.13      | 13.58 | 14.07 | 14.50              |                    |
| 50                              |             | LOW       | 64QAM      | 13.78      | 13.75 | 14.24 | 14.50              |                    |

| LTE B7-State2&4&6 -Ant.4 (ENDC) |             |           |            |            |       |       |                    |                    |
|---------------------------------|-------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (                     | RB Size     | RB offset | Modulation | 20825      | 21100 | 21375 | Tune-up power(dBm) |                    |
| 15                              | 1           | LOW       | QPSK       | 14.04      | 13.97 | 13.89 | 14.50              |                    |
|                                 |             | MID       | QPSK       | 13.74      | 14.01 | 14.01 | 14.50              |                    |
|                                 |             | HIGH      | QPSK       | 13.95      | 13.82 | 14.06 | 14.50              |                    |
|                                 | 36          | LOW       | QPSK       | 13.83      | 13.89 | 14.30 | 14.50              |                    |
|                                 |             | MID       | QPSK       | 13.91      | 14.17 | 13.98 | 14.50              |                    |
|                                 |             | HIGH      | QPSK       | 13.72      | 13.78 | 14.11 | 14.50              |                    |
|                                 | 75          | LOW       | QPSK       | 13.98      | 13.93 | 13.97 | 14.50              |                    |
|                                 | 15          | 1         | LOW        | Q16        | 13.94 | 13.83 | 14.23              | 14.50              |
|                                 |             |           | MID        | Q16        | 13.71 | 14.14 | 13.87              | 14.50              |
| HIGH                            |             |           | Q16        | 14.20      | 13.99 | 14.19 | 14.50              |                    |
| 36                              |             | LOW       | Q16        | 13.84      | 14.01 | 14.22 | 14.50              |                    |
|                                 |             | MID       | Q16        | 14.00      | 13.75 | 13.98 | 14.50              |                    |
|                                 |             | HIGH      | Q16        | 14.12      | 13.78 | 13.99 | 14.50              |                    |
| 75                              |             | LOW       | Q16        | 13.81      | 13.97 | 14.33 | 14.50              |                    |
| 15                              |             | 1         | LOW        | 64QAM      | 13.85 | 13.81 | 13.91              | 14.50              |
|                                 |             |           | MID        | 64QAM      | 13.96 | 13.98 | 13.75              | 14.50              |
|                                 | HIGH        |           | 64QAM      | 13.77      | 14.02 | 13.71 | 14.50              |                    |
|                                 | 36          | LOW       | 64QAM      | 13.89      | 13.81 | 14.00 | 14.50              |                    |
|                                 |             | MID       | 64QAM      | 13.99      | 13.88 | 13.89 | 14.50              |                    |
|                                 |             | HIGH      | 64QAM      | 14.18      | 13.74 | 14.10 | 14.50              |                    |
|                                 | 75          | LOW       | 64QAM      | 13.74      | 13.89 | 14.16 | 14.50              |                    |
|                                 | Bandwidth ( | RB Size   | RB offset  | Modulation | 20850 | 21100 | 21350              | Tune-up power(dBm) |
|                                 | 20          | 1         | LOW        | QPSK       | 13.89 | 13.92 | 13.91              | 14.50              |
| MID                             |             |           | QPSK       | 13.74      | 13.89 | 13.87 | 14.50              |                    |
| HIGH                            |             |           | QPSK       | 13.94      | 14.01 | 13.96 | 14.50              |                    |
| 50                              |             | LOW       | QPSK       | 13.86      | 13.98 | 14.09 | 14.50              |                    |
|                                 |             | MID       | QPSK       | 13.99      | 14.15 | 13.89 | 14.50              |                    |
|                                 |             | HIGH      | QPSK       | 13.84      | 13.84 | 14.00 | 14.50              |                    |
| 100                             |             | LOW       | QPSK       | 13.98      | 13.98 | 14.01 | 14.50              |                    |
| 20                              |             | 1         | LOW        | Q16        | 13.94 | 13.95 | 14.08              | 14.50              |
|                                 |             |           | MID        | Q16        | 13.84 | 14.04 | 13.76              | 14.50              |
|                                 | HIGH        |           | Q16        | 14.15      | 14.10 | 14.09 | 14.50              |                    |
|                                 | 50          | LOW       | Q16        | 13.92      | 13.99 | 14.10 | 14.50              |                    |
|                                 |             | MID       | Q16        | 13.85      | 13.82 | 13.91 | 14.50              |                    |
|                                 |             | HIGH      | Q16        | 14.16      | 13.80 | 13.92 | 14.50              |                    |
|                                 | 100         | LOW       | Q16        | 13.91      | 14.08 | 14.18 | 14.50              |                    |
|                                 | 20          | 1         | LOW        | 64QAM      | 13.85 | 13.90 | 13.80              | 14.50              |
|                                 |             |           | MID        | 64QAM      | 13.85 | 14.07 | 13.71              | 14.50              |
| HIGH                            |             |           | 64QAM      | 13.82      | 14.05 | 13.86 | 14.50              |                    |
| 50                              |             | LOW       | 64QAM      | 13.99      | 13.89 | 13.88 | 14.50              |                    |
|                                 |             | MID       | 64QAM      | 14.09      | 14.03 | 13.96 | 14.50              |                    |
|                                 |             | HIGH      | 64QAM      | 14.03      | 13.70 | 13.99 | 14.50              |                    |
| 100                             |             | LOW       | 64QAM      | 13.70      | 13.87 | 14.09 | 14.50              |                    |

### 8.3.4 LTE Band26 Output Power

BL-SZ2320168-701

| LTE B26-Full Power -Ant.0 (ENDC) |                 |           |            |            |       |       |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 26697      | 26865 | 27033 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 23.29      | 23.40 | 23.52 | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.31      | 23.43 | 23.38 | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.29      | 23.38 | 23.26 | 24.00              |                    |
|                                  | 3               | LOW       | QPSK       | 23.61      | 23.42 | 23.30 | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.41      | 23.51 | 23.59 | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.26      | 23.28 | 23.52 | 24.00              |                    |
|                                  | 6               | LOW       | QPSK       | 22.27      | 22.34 | 22.47 | 23.00              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 22.38 | 22.49 | 22.41              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.42 | 22.56 | 22.34              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.51      | 22.42 | 22.59 | 23.00              |                    |
| 3                                |                 | LOW       | Q16        | 22.16      | 22.32 | 22.32 | 23.00              |                    |
|                                  |                 | MID       | Q16        | 22.38      | 22.23 | 22.37 | 23.00              |                    |
|                                  |                 | HIGH      | Q16        | 22.32      | 22.15 | 22.43 | 23.00              |                    |
| 6                                |                 | LOW       | Q16        | 21.51      | 21.35 | 21.32 | 22.00              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 21.49 | 21.40 | 21.35              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.47 | 21.22 | 21.51              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.58      | 21.37 | 21.25 | 22.00              |                    |
|                                  | 3               | LOW       | 64QAM      | 21.43      | 21.42 | 21.32 | 22.00              |                    |
|                                  |                 | MID       | 64QAM      | 21.36      | 21.35 | 21.55 | 22.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 21.46      | 21.46 | 21.29 | 22.00              |                    |
|                                  | 6               | LOW       | 64QAM      | 20.43      | 20.28 | 20.32 | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 23.41 | 23.44 | 23.66              | 24.00              |
| MID                              |                 |           | QPSK       | 23.43      | 23.49 | 23.37 | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 23.20      | 23.21 | 23.30 | 24.00              |                    |
| 8                                |                 | LOW       | QPSK       | 22.66      | 22.27 | 22.15 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.29      | 22.32 | 22.30 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.18      | 22.42 | 22.42 | 23.00              |                    |
| 15                               |                 | LOW       | QPSK       | 22.42      | 22.49 | 22.49 | 23.00              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 22.10 | 22.52 | 22.67              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.08 | 22.56 | 22.46              | 23.00              |
|                                  | HIGH            |           | Q16        | 22.54      | 22.30 | 22.35 | 23.00              |                    |
|                                  | 8               | LOW       | Q16        | 21.22      | 21.44 | 21.49 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.57      | 21.35 | 21.41 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.27      | 21.59 | 21.49 | 22.00              |                    |
|                                  | 15              | LOW       | Q16        | 21.19      | 21.28 | 21.36 | 22.00              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 21.17 | 21.29 | 21.34              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.49 | 21.26 | 21.63              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 21.50      | 21.26 | 21.56 | 22.00              |                    |
| 8                                |                 | LOW       | 64QAM      | 20.32      | 20.48 | 20.30 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.56      | 20.36 | 20.33 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.42      | 20.49 | 20.06 | 21.00              |                    |
| 15                               |                 | LOW       | 64QAM      | 20.34      | 20.30 | 20.38 | 21.00              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 23.66 | 23.36 | 23.57              | 24.00              |
|                                  | MID             |           | QPSK       | 23.33      | 23.56 | 23.58 | 24.00              |                    |
|                                  | HIGH            |           | QPSK       | 23.33      | 23.45 | 23.48 | 24.00              |                    |
|                                  | 12              | LOW       | QPSK       | 22.46      | 22.29 | 22.20 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.20      | 22.55 | 22.26 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.34      | 22.49 | 22.34 | 23.00              |                    |
|                                  | 25              | LOW       | QPSK       | 22.64      | 22.23 | 22.38 | 23.00              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 22.29 | 22.35 | 22.66              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.20 | 22.61 | 22.33              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.46      | 22.49 | 22.58 | 23.00              |                    |
| 12                               |                 | LOW       | Q16        | 21.39      | 21.45 | 21.68 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.42      | 21.36 | 21.34 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.22      | 21.42 | 21.34 | 22.00              |                    |
| 25                               |                 | LOW       | Q16        | 21.21      | 21.34 | 21.34 | 22.00              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 21.18 | 21.26 | 21.58              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.33 | 21.28 | 21.44              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.32      | 21.47 | 21.42 | 22.00              |                    |
|                                  | 12              | LOW       | 64QAM      | 20.38      | 20.34 | 20.08 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.50      | 20.39 | 20.29 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.64      | 20.37 | 20.29 | 21.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 20.56      | 20.36 | 20.40 | 21.00              |                    |



| LTE B26-Full Power -Ant.0 (ENDC) |                 |           |            |            |       |       |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 26740      | 26865 | 26990 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 23.59      | 23.34 | 23.49 | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.50      | 23.45 | 23.39 | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.19      | 23.32 | 23.33 | 24.00              |                    |
|                                  | 25              | LOW       | QPSK       | 22.57      | 22.26 | 22.05 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.16      | 22.31 | 22.14 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.35      | 22.42 | 22.53 | 23.00              |                    |
|                                  | 50              | LOW       | QPSK       | 22.50      | 22.21 | 22.45 | 23.00              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 22.16 | 22.55 | 22.61              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.24 | 22.47 | 22.37              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.41      | 22.20 | 22.61 | 23.00              |                    |
| 25                               |                 | LOW       | Q16        | 21.23      | 21.24 | 21.71 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.63      | 21.36 | 21.22 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.38      | 21.59 | 21.37 | 22.00              |                    |
| 50                               |                 | LOW       | Q16        | 21.06      | 21.46 | 21.60 | 22.00              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 21.28 | 21.34 | 21.63              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.35 | 21.11 | 21.52              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.41      | 21.40 | 21.46 | 22.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 20.32      | 20.49 | 20.07 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.38      | 20.22 | 20.38 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.37      | 20.27 | 20.16 | 21.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 20.51      | 20.26 | 20.32 | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26765 | 26865 | 26965              | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 23.52 | 23.38 | 23.53              | 24.00              |
| MID                              |                 |           | QPSK       | 23.47      | 23.45 | 23.45 | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 23.30      | 23.32 | 23.35 | 24.00              |                    |
| 36                               |                 | LOW       | QPSK       | 22.52      | 22.32 | 22.13 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.29      | 22.46 | 22.15 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.23      | 22.52 | 22.41 | 23.00              |                    |
| 75                               |                 | LOW       | QPSK       | 22.54      | 22.35 | 22.51 | 23.00              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 22.24 | 22.42 | 22.57              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.22 | 22.54 | 22.47              | 23.00              |
|                                  | HIGH            |           | Q16        | 22.52      | 22.34 | 22.49 | 23.00              |                    |
|                                  | 36              | LOW       | Q16        | 21.30      | 21.37 | 21.56 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.56      | 21.21 | 21.33 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.33      | 21.56 | 21.39 | 22.00              |                    |
|                                  | 75              | LOW       | Q16        | 21.19      | 21.40 | 21.49 | 22.00              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 21.16 | 21.32 | 21.48              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.47 | 21.23 | 21.49              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 21.39      | 21.38 | 21.46 | 22.00              |                    |
| 36                               |                 | LOW       | 64QAM      | 20.45      | 20.34 | 20.16 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.42      | 20.25 | 20.43 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.49      | 20.35 | 20.18 | 21.00              |                    |
| 75                               |                 | LOW       | 64QAM      | 20.44      | 20.34 | 20.28 | 21.00              |                    |

| LTE B26-State1&3&5 -Ant.0 (ENDC) |                 |           |            |            |       |       |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 26697      | 26865 | 27033 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 20.79      | 20.87 | 21.00 | 21.50              |                    |
|                                  |                 | MID       | QPSK       | 20.95      | 20.86 | 20.89 | 21.50              |                    |
|                                  |                 | HIGH      | QPSK       | 21.00      | 20.89 | 20.78 | 21.50              |                    |
|                                  | 3               | LOW       | QPSK       | 20.81      | 20.91 | 20.88 | 21.50              |                    |
|                                  |                 | MID       | QPSK       | 20.93      | 21.05 | 20.90 | 21.50              |                    |
|                                  |                 | HIGH      | QPSK       | 21.00      | 20.97 | 20.95 | 21.50              |                    |
|                                  | 6               | LOW       | QPSK       | 20.92      | 20.92 | 20.93 | 21.50              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 20.84 | 20.96 | 20.82              | 21.50              |
|                                  |                 |           | MID        | Q16        | 21.03 | 20.85 | 20.80              | 21.50              |
| HIGH                             |                 |           | Q16        | 20.95      | 21.07 | 20.92 | 21.50              |                    |
| 3                                |                 | LOW       | Q16        | 20.60      | 20.79 | 20.88 | 21.50              |                    |
|                                  |                 | MID       | Q16        | 20.85      | 20.59 | 20.65 | 21.50              |                    |
|                                  |                 | HIGH      | Q16        | 20.88      | 20.71 | 20.83 | 21.50              |                    |
| 6                                |                 | LOW       | Q16        | 20.70      | 20.84 | 20.87 | 21.50              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 21.07 | 20.92 | 21.09              | 21.50              |
|                                  |                 |           | MID        | 64QAM      | 20.97 | 20.90 | 21.05              | 21.50              |
|                                  | HIGH            |           | 64QAM      | 21.12      | 20.98 | 21.08 | 21.50              |                    |
|                                  | 3               | LOW       | 64QAM      | 20.98      | 20.82 | 20.75 | 21.50              |                    |
|                                  |                 | MID       | 64QAM      | 20.77      | 20.86 | 20.93 | 21.50              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.67      | 20.62 | 20.82 | 21.50              |                    |
|                                  | 6               | LOW       | 64QAM      | 20.43      | 20.30 | 20.43 | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 20.73 | 20.79 | 20.93              | 21.50              |
| MID                              |                 |           | QPSK       | 20.97      | 20.81 | 21.00 | 21.50              |                    |
| HIGH                             |                 |           | QPSK       | 20.87      | 20.65 | 20.88 | 21.50              |                    |
| 8                                |                 | LOW       | QPSK       | 21.06      | 20.92 | 20.88 | 21.50              |                    |
|                                  |                 | MID       | QPSK       | 21.03      | 20.84 | 20.83 | 21.50              |                    |
|                                  |                 | HIGH      | QPSK       | 20.92      | 20.92 | 20.69 | 21.50              |                    |
| 15                               |                 | LOW       | QPSK       | 20.86      | 20.92 | 21.11 | 21.50              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 21.04 | 20.78 | 21.23              | 21.50              |
|                                  |                 |           | MID        | Q16        | 21.00 | 21.03 | 20.90              | 21.50              |
|                                  | HIGH            |           | Q16        | 20.90      | 20.98 | 20.97 | 21.50              |                    |
|                                  | 8               | LOW       | Q16        | 20.52      | 20.95 | 20.88 | 21.50              |                    |
|                                  |                 | MID       | Q16        | 21.04      | 20.55 | 20.82 | 21.50              |                    |
|                                  |                 | HIGH      | Q16        | 20.84      | 20.84 | 20.54 | 21.50              |                    |
|                                  | 15              | LOW       | Q16        | 20.94      | 20.76 | 21.09 | 21.50              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 20.78 | 20.80 | 21.01              | 21.50              |
|                                  |                 |           | MID        | 64QAM      | 20.98 | 20.77 | 20.55              | 21.50              |
| HIGH                             |                 |           | 64QAM      | 20.84      | 21.11 | 20.84 | 21.50              |                    |
| 8                                |                 | LOW       | 64QAM      | 20.47      | 20.30 | 20.32 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.39      | 20.66 | 20.40 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.17      | 20.52 | 20.09 | 21.00              |                    |
| 15                               |                 | LOW       | 64QAM      | 20.60      | 20.32 | 20.64 | 21.00              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 20.60 | 20.98 | 20.76              | 21.50              |
|                                  | MID             |           | QPSK       | 20.84      | 20.98 | 21.07 | 21.50              |                    |
|                                  | HIGH            |           | QPSK       | 21.01      | 20.89 | 20.78 | 21.50              |                    |
|                                  | 12              | LOW       | QPSK       | 20.88      | 20.85 | 20.77 | 21.50              |                    |
|                                  |                 | MID       | QPSK       | 21.04      | 20.74 | 20.71 | 21.50              |                    |
|                                  |                 | HIGH      | QPSK       | 20.78      | 21.05 | 20.83 | 21.50              |                    |
|                                  | 25              | LOW       | QPSK       | 20.91      | 20.72 | 20.89 | 21.50              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 20.95 | 20.96 | 21.10              | 21.50              |
|                                  |                 |           | MID        | Q16        | 20.84 | 21.05 | 20.76              | 21.50              |
| HIGH                             |                 |           | Q16        | 20.90      | 21.02 | 21.19 | 21.50              |                    |
| 12                               |                 | LOW       | Q16        | 20.73      | 20.87 | 20.70 | 21.50              |                    |
|                                  |                 | MID       | Q16        | 21.02      | 20.68 | 20.90 | 21.50              |                    |
|                                  |                 | HIGH      | Q16        | 20.83      | 20.66 | 20.54 | 21.50              |                    |
| 25                               |                 | LOW       | Q16        | 21.00      | 20.66 | 20.83 | 21.50              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 20.87 | 20.95 | 20.82              | 21.50              |
|                                  |                 |           | MID        | 64QAM      | 20.96 | 20.83 | 20.78              | 21.50              |
|                                  | HIGH            |           | 64QAM      | 20.61      | 21.11 | 20.87 | 21.50              |                    |
|                                  | 12              | LOW       | 64QAM      | 20.64      | 20.48 | 20.31 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.14      | 20.68 | 20.40 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.36      | 20.43 | 20.10 | 21.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 20.67      | 20.05 | 20.50 | 21.00              |                    |

| LTE B26-State1&3&5 -Ant.0 (ENDC) |                 |           |            |            |       |       |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 26740      | 26865 | 26990 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 20.72      | 20.73 | 20.81 | 21.50              |                    |
|                                  |                 | MID       | QPSK       | 20.78      | 20.90 | 20.91 | 21.50              |                    |
|                                  |                 | HIGH      | QPSK       | 20.96      | 20.92 | 20.84 | 21.50              |                    |
|                                  | 25              | LOW       | QPSK       | 21.02      | 20.90 | 20.78 | 21.50              |                    |
|                                  |                 | MID       | QPSK       | 20.81      | 20.79 | 20.70 | 21.50              |                    |
|                                  |                 | HIGH      | QPSK       | 20.80      | 21.00 | 20.88 | 21.50              |                    |
|                                  | 50              | LOW       | QPSK       | 20.92      | 20.81 | 20.95 | 21.50              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 20.96 | 21.00 | 21.16              | 21.50              |
|                                  |                 |           | MID        | Q16        | 20.87 | 20.87 | 20.65              | 21.50              |
| HIGH                             |                 |           | Q16        | 21.00      | 21.03 | 21.00 | 21.50              |                    |
| 25                               |                 | LOW       | Q16        | 20.68      | 20.81 | 20.72 | 21.50              |                    |
|                                  |                 | MID       | Q16        | 20.94      | 20.69 | 21.01 | 21.50              |                    |
|                                  |                 | HIGH      | Q16        | 20.82      | 20.71 | 20.60 | 21.50              |                    |
| 50                               |                 | LOW       | Q16        | 21.08      | 20.76 | 20.97 | 21.50              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 20.74 | 20.92 | 20.82              | 21.50              |
|                                  |                 |           | MID        | 64QAM      | 21.10 | 20.86 | 20.74              | 21.50              |
|                                  | HIGH            |           | 64QAM      | 20.79      | 21.07 | 20.87 | 21.50              |                    |
|                                  | 25              | LOW       | 64QAM      | 20.36      | 20.55 | 20.29 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.20      | 20.59 | 20.41 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.37      | 20.55 | 20.36 | 21.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 20.62      | 20.15 | 20.66 | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26765 | 26865 | 26965              | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 20.72 | 20.87 | 20.87              | 21.50              |
| MID                              |                 |           | QPSK       | 20.83      | 20.93 | 21.03 | 21.50              |                    |
| HIGH                             |                 |           | QPSK       | 20.90      | 20.80 | 20.86 | 21.50              |                    |
| 36                               |                 | LOW       | QPSK       | 20.96      | 20.85 | 20.97 | 21.50              |                    |
|                                  |                 | MID       | QPSK       | 20.94      | 20.80 | 20.83 | 21.50              |                    |
|                                  |                 | HIGH      | QPSK       | 20.83      | 20.91 | 20.77 | 21.50              |                    |
| 75                               | LOW             | QPSK      | 20.81      | 20.87      | 21.01 | 21.50 |                    |                    |
| 15                               | 1               | LOW       | Q16        | 20.89      | 20.93 | 21.09 | 21.50              |                    |
|                                  |                 | MID       | Q16        | 20.94      | 20.90 | 20.76 | 21.50              |                    |
|                                  |                 | HIGH      | Q16        | 20.96      | 20.90 | 21.05 | 21.50              |                    |
|                                  | 36              | LOW       | Q16        | 20.67      | 20.87 | 20.75 | 21.50              |                    |
|                                  |                 | MID       | Q16        | 20.90      | 20.68 | 20.97 | 21.50              |                    |
|                                  |                 | HIGH      | Q16        | 20.97      | 20.77 | 20.67 | 21.50              |                    |
|                                  | 75              | LOW       | Q16        | 20.97      | 20.70 | 20.96 | 21.50              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 20.86 | 20.83 | 20.88              | 21.50              |
|                                  |                 |           | MID        | 64QAM      | 20.99 | 20.72 | 20.68              | 21.50              |
| HIGH                             |                 |           | 64QAM      | 20.70      | 21.01 | 20.95 | 21.50              |                    |
| 36                               |                 | LOW       | 64QAM      | 20.49      | 20.40 | 20.32 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.27      | 20.53 | 20.41 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.30      | 20.48 | 20.21 | 21.00              |                    |
| 75                               |                 | LOW       | 64QAM      | 20.59      | 20.20 | 20.57 | 21.00              |                    |

| LTE B26-State2&4&6 -Ant.0 (ENDC) |                 |           |            |            |       |       |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 26697      | 26865 | 27033 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 23.29      | 23.40 | 23.52 | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.31      | 23.43 | 23.38 | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.29      | 23.38 | 23.26 | 24.00              |                    |
|                                  | 3               | LOW       | QPSK       | 23.61      | 23.42 | 23.30 | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.41      | 23.51 | 23.59 | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.26      | 23.28 | 23.52 | 24.00              |                    |
|                                  | 6               | LOW       | QPSK       | 22.27      | 22.34 | 22.47 | 23.00              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 22.38 | 22.49 | 22.41              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.42 | 22.56 | 22.34              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.51      | 22.42 | 22.59 | 23.00              |                    |
| 3                                |                 | LOW       | Q16        | 22.16      | 22.32 | 22.32 | 23.00              |                    |
|                                  |                 | MID       | Q16        | 22.38      | 22.23 | 22.37 | 23.00              |                    |
|                                  |                 | HIGH      | Q16        | 22.32      | 22.15 | 22.43 | 23.00              |                    |
| 6                                |                 | LOW       | Q16        | 21.51      | 21.35 | 21.32 | 22.00              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 21.49 | 21.40 | 21.35              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.47 | 21.22 | 21.51              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.58      | 21.37 | 21.25 | 22.00              |                    |
|                                  | 3               | LOW       | 64QAM      | 21.43      | 21.42 | 21.32 | 22.00              |                    |
|                                  |                 | MID       | 64QAM      | 21.36      | 21.35 | 21.55 | 22.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 21.46      | 21.46 | 21.29 | 22.00              |                    |
|                                  | 6               | LOW       | 64QAM      | 20.43      | 20.28 | 20.32 | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 23.41 | 23.44 | 23.66              | 24.00              |
| MID                              |                 |           | QPSK       | 23.43      | 23.49 | 23.37 | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 23.20      | 23.21 | 23.30 | 24.00              |                    |
| 8                                |                 | LOW       | QPSK       | 22.66      | 22.27 | 22.15 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.29      | 22.32 | 22.30 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.18      | 22.42 | 22.42 | 23.00              |                    |
| 15                               |                 | LOW       | QPSK       | 22.42      | 22.49 | 22.49 | 23.00              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 22.10 | 22.52 | 22.67              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.08 | 22.56 | 22.46              | 23.00              |
|                                  | HIGH            |           | Q16        | 22.54      | 22.30 | 22.35 | 23.00              |                    |
|                                  | 8               | LOW       | Q16        | 21.22      | 21.44 | 21.49 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.57      | 21.35 | 21.41 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.27      | 21.59 | 21.49 | 22.00              |                    |
|                                  | 15              | LOW       | Q16        | 21.19      | 21.28 | 21.36 | 22.00              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 21.17 | 21.29 | 21.34              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.49 | 21.26 | 21.63              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 21.50      | 21.26 | 21.56 | 22.00              |                    |
| 8                                |                 | LOW       | 64QAM      | 20.32      | 20.48 | 20.30 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.56      | 20.36 | 20.33 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.42      | 20.49 | 20.06 | 21.00              |                    |
| 15                               |                 | LOW       | 64QAM      | 20.34      | 20.30 | 20.38 | 21.00              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 23.66 | 23.36 | 23.57              | 24.00              |
|                                  | MID             |           | QPSK       | 23.33      | 23.56 | 23.58 | 24.00              |                    |
|                                  | HIGH            |           | QPSK       | 23.33      | 23.45 | 23.48 | 24.00              |                    |
|                                  | 12              | LOW       | QPSK       | 22.46      | 22.29 | 22.20 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.20      | 22.55 | 22.26 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.34      | 22.49 | 22.34 | 23.00              |                    |
|                                  | 25              | LOW       | QPSK       | 22.64      | 22.23 | 22.38 | 23.00              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 22.29 | 22.35 | 22.66              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.20 | 22.61 | 22.33              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.46      | 22.49 | 22.58 | 23.00              |                    |
| 12                               |                 | LOW       | Q16        | 21.39      | 21.45 | 21.68 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.42      | 21.36 | 21.34 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.22      | 21.42 | 21.34 | 22.00              |                    |
| 25                               |                 | LOW       | Q16        | 21.21      | 21.34 | 21.34 | 22.00              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 21.18 | 21.26 | 21.58              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.33 | 21.28 | 21.44              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.32      | 21.47 | 21.42 | 22.00              |                    |
|                                  | 12              | LOW       | 64QAM      | 20.38      | 20.34 | 20.08 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.50      | 20.39 | 20.29 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.64      | 20.37 | 20.29 | 21.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 20.56      | 20.36 | 20.40 | 21.00              |                    |

| LTE B26-State2&4&6 -Ant.0 (ENDC) |                 |           |            |            |       |       |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 26740      | 26865 | 26990 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 23.59      | 23.34 | 23.49 | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.50      | 23.45 | 23.39 | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.19      | 23.32 | 23.33 | 24.00              |                    |
|                                  | 25              | LOW       | QPSK       | 22.57      | 22.26 | 22.05 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.16      | 22.31 | 22.14 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.35      | 22.42 | 22.53 | 23.00              |                    |
|                                  | 50              | LOW       | QPSK       | 22.50      | 22.21 | 22.45 | 23.00              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 22.16 | 22.55 | 22.61              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.24 | 22.47 | 22.37              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.41      | 22.20 | 22.61 | 23.00              |                    |
| 25                               |                 | LOW       | Q16        | 21.23      | 21.24 | 21.71 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.63      | 21.36 | 21.22 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.38      | 21.59 | 21.37 | 22.00              |                    |
| 50                               |                 | LOW       | Q16        | 21.06      | 21.46 | 21.60 | 22.00              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 21.28 | 21.34 | 21.63              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.35 | 21.11 | 21.52              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.41      | 21.40 | 21.46 | 22.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 20.32      | 20.49 | 20.07 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.38      | 20.22 | 20.38 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.37      | 20.27 | 20.16 | 21.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 20.51      | 20.26 | 20.32 | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26765 | 26865 | 26965              | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 23.52 | 23.38 | 23.53              | 24.00              |
| MID                              |                 |           | QPSK       | 23.47      | 23.45 | 23.45 | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 23.30      | 23.32 | 23.35 | 24.00              |                    |
| 36                               |                 | LOW       | QPSK       | 22.52      | 22.32 | 22.13 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.29      | 22.46 | 22.15 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.23      | 22.52 | 22.41 | 23.00              |                    |
| 75                               |                 | LOW       | QPSK       | 22.54      | 22.35 | 22.51 | 23.00              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 22.24 | 22.42 | 22.57              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.22 | 22.54 | 22.47              | 23.00              |
|                                  | HIGH            |           | Q16        | 22.52      | 22.34 | 22.49 | 23.00              |                    |
|                                  | 36              | LOW       | Q16        | 21.30      | 21.37 | 21.56 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.56      | 21.21 | 21.33 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.33      | 21.56 | 21.39 | 22.00              |                    |
|                                  | 75              | LOW       | Q16        | 21.19      | 21.40 | 21.49 | 22.00              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 21.16 | 21.32 | 21.48              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.47 | 21.23 | 21.49              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 21.39      | 21.38 | 21.46 | 22.00              |                    |
| 36                               |                 | LOW       | 64QAM      | 20.45      | 20.34 | 20.16 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.42      | 20.25 | 20.43 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.49      | 20.35 | 20.18 | 21.00              |                    |
| 75                               |                 | LOW       | 64QAM      | 20.44      | 20.34 | 20.28 | 21.00              |                    |

### 8.3.4 LTE Band26 Output Power

BL-SZ2320168-701

| LTE B26-Full Power -Ant.1 (ENDC) |                 |           |            |            |       |       |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 26697      | 26865 | 27033 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 23.10      | 23.10 | 22.95 | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.13      | 23.05 | 22.97 | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.02      | 23.06 | 22.98 | 24.00              |                    |
|                                  | 3               | LOW       | QPSK       | 22.91      | 23.01 | 22.88 | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.00      | 23.07 | 22.92 | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.81      | 22.97 | 22.89 | 24.00              |                    |
|                                  | 6               | LOW       | QPSK       | 21.80      | 21.99 | 22.16 | 23.00              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 22.04 | 22.10 | 22.22              | 23.00              |
|                                  |                 |           | MID        | Q16        | 21.96 | 22.21 | 22.09              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.16      | 22.27 | 21.95 | 23.00              |                    |
| 3                                |                 | LOW       | Q16        | 21.96      | 21.98 | 22.18 | 23.00              |                    |
|                                  |                 | MID       | Q16        | 22.07      | 21.82 | 21.82 | 23.00              |                    |
|                                  |                 | HIGH      | Q16        | 22.08      | 22.02 | 22.03 | 23.00              |                    |
| 6                                |                 | LOW       | Q16        | 21.20      | 21.04 | 21.21 | 22.00              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 20.87 | 21.02 | 21.10              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 20.94 | 21.18 | 21.22              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 20.91      | 20.84 | 21.22 | 22.00              |                    |
|                                  | 3               | LOW       | 64QAM      | 21.00      | 20.83 | 20.91 | 22.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.69      | 20.83 | 20.91 | 22.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.96      | 21.01 | 20.76 | 22.00              |                    |
|                                  | 6               | LOW       | 64QAM      | 20.04      | 19.98 | 19.95 | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 22.84 | 23.07 | 23.19              | 24.00              |
| MID                              |                 |           | QPSK       | 23.22      | 23.18 | 23.19 | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 22.95      | 22.91 | 23.17 | 24.00              |                    |
| 8                                |                 | LOW       | QPSK       | 22.34      | 22.08 | 21.90 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.04      | 21.99 | 22.07 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.31      | 21.92 | 22.00 | 23.00              |                    |
| 15                               |                 | LOW       | QPSK       | 21.89      | 21.95 | 22.40 | 23.00              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 22.33 | 21.98 | 22.10              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.27 | 22.03 | 22.03              | 23.00              |
|                                  | HIGH            |           | Q16        | 22.02      | 22.37 | 22.07 | 23.00              |                    |
|                                  | 8               | LOW       | Q16        | 20.95      | 20.97 | 21.02 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.09      | 20.95 | 20.79 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.07      | 21.25 | 21.20 | 22.00              |                    |
|                                  | 15              | LOW       | Q16        | 21.07      | 20.96 | 21.02 | 22.00              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 20.78 | 20.92 | 21.28              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 20.89 | 21.11 | 21.12              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 21.05      | 20.99 | 20.77 | 22.00              |                    |
| 8                                |                 | LOW       | 64QAM      | 19.91      | 19.88 | 19.87 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.01      | 19.70 | 19.98 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.12      | 20.15 | 19.76 | 21.00              |                    |
| 15                               |                 | LOW       | 64QAM      | 19.99      | 19.95 | 20.03 | 21.00              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 26715 | 26865 | 27015              | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 22.96 | 23.06 | 22.94              | 24.00              |
|                                  | MID             |           | QPSK       | 23.39      | 22.99 | 23.20 | 24.00              |                    |
|                                  | HIGH            |           | QPSK       | 23.05      | 23.12 | 23.14 | 24.00              |                    |
|                                  | 12              | LOW       | QPSK       | 22.07      | 22.12 | 21.77 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 21.82      | 22.02 | 22.00 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.38      | 22.03 | 22.03 | 23.00              |                    |
|                                  | 25              | LOW       | QPSK       | 22.05      | 22.21 | 22.19 | 23.00              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 22.31 | 22.01 | 22.18              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.26 | 22.16 | 21.95              | 23.00              |
| HIGH                             |                 |           | Q16        | 21.95      | 22.15 | 22.02 | 23.00              |                    |
| 12                               |                 | LOW       | Q16        | 21.00      | 21.14 | 21.21 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.22      | 20.89 | 20.76 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.21      | 21.25 | 21.13 | 22.00              |                    |
| 25                               |                 | LOW       | Q16        | 21.08      | 20.98 | 21.09 | 22.00              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 20.83 | 21.13 | 21.19              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 20.81 | 21.12 | 21.04              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.15      | 20.79 | 21.04 | 22.00              |                    |
|                                  | 12              | LOW       | 64QAM      | 19.96      | 19.81 | 19.69 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.03      | 19.72 | 20.15 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.08      | 19.95 | 19.73 | 21.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 20.22      | 20.00 | 20.12 | 21.00              |                    |

| LTE B26-Full Power -Ant.1 (ENDC) |                 |           |            |            |       |       |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|-------|-------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 26740      | 26865 | 26990 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 22.80      | 22.94 | 23.03 | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.11      | 23.19 | 23.31 | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.88      | 23.16 | 22.92 | 24.00              |                    |
|                                  | 25              | LOW       | QPSK       | 22.34      | 22.15 | 21.99 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 21.84      | 21.92 | 21.99 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.16      | 22.08 | 21.87 | 23.00              |                    |
|                                  | 50              | LOW       | QPSK       | 21.98      | 22.22 | 22.22 | 23.00              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 22.34 | 22.27 | 22.07              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.19 | 22.07 | 22.10              | 23.00              |
| HIGH                             |                 |           | Q16        | 21.95      | 22.16 | 22.06 | 23.00              |                    |
| 25                               |                 | LOW       | Q16        | 20.89      | 20.98 | 21.12 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.15      | 21.01 | 21.01 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.24      | 21.21 | 21.04 | 22.00              |                    |
| 50                               |                 | LOW       | Q16        | 21.33      | 21.04 | 21.15 | 22.00              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 20.72 | 21.03 | 21.19              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 20.92 | 21.03 | 21.14              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.09      | 20.93 | 20.93 | 22.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 19.80      | 19.90 | 19.78 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 19.93      | 19.82 | 20.06 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.95      | 20.20 | 20.00 | 21.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 19.94      | 20.13 | 20.04 | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 26765 | 26865 | 26965              | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 22.95 | 23.04 | 23.04              | 24.00              |
| MID                              |                 |           | QPSK       | 23.26      | 23.12 | 23.26 | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 22.95      | 23.02 | 23.07 | 24.00              |                    |
| 36                               |                 | LOW       | QPSK       | 22.19      | 22.04 | 21.88 | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 21.93      | 21.88 | 21.96 | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.23      | 22.05 | 21.90 | 23.00              |                    |
| 75                               |                 | LOW       | QPSK       | 21.96      | 22.09 | 22.26 | 23.00              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 22.27 | 22.13 | 22.16              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.18 | 22.16 | 22.06              | 23.00              |
|                                  | HIGH            |           | Q16        | 22.01      | 22.29 | 22.15 | 23.00              |                    |
|                                  | 36              | LOW       | Q16        | 21.00      | 21.08 | 21.16 | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.21      | 20.90 | 20.88 | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.13      | 21.22 | 21.08 | 22.00              |                    |
|                                  | 75              | LOW       | Q16        | 21.18      | 21.10 | 21.09 | 22.00              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 20.83 | 21.03 | 21.20              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 20.85 | 21.07 | 21.13              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 21.17      | 20.89 | 20.90 | 22.00              |                    |
| 36                               |                 | LOW       | 64QAM      | 19.86      | 19.93 | 19.74 | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 19.98      | 19.73 | 20.03 | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.07      | 20.10 | 19.85 | 21.00              |                    |
| 75                               |                 | LOW       | 64QAM      | 20.07      | 20.03 | 20.04 | 21.00              |                    |

| LTE B26-State1&2&3&4&5&6 -Ant.1 (ENDC) |         |           |            |       |       |       |                    |          |
|--|---------|-----------|------------|-------|-------|-------|--------------------|----------|
| Bandwidth (MHz)                        | RB Size | RB offset | Modulation | 26697 | 26865 | 27033 | Tune-up power(dBm) | MPR (dB) |
| 1.4                                    | 1       | LOW       | QPSK       | 23.10 | 23.10 | 22.95 | 24.00              | 0.0      |
|  |         | MID       | QPSK       | 23.13 | 23.05 | 22.97 | 24.00              |          |
|  |         | HIGH      | QPSK       | 23.02 | 23.06 | 22.98 | 24.00              |          |
|  | 3       | LOW       | QPSK       | 22.91 | 23.01 | 22.88 | 24.00              | 1.0      |
|  |         | MID       | QPSK       | 23.00 | 23.07 | 22.92 | 24.00              |          |
|  |         | HIGH      | QPSK       | 22.81 | 22.97 | 22.89 | 24.00              |          |
| 6                                      | LOW     | QPSK      | 21.80      | 21.99 | 22.16 | 23.00 | 1.0                |          |
| 1.4                                    | 1       | LOW       | Q16        | 22.04 | 22.10 | 22.22 | 23.00              | 1.0      |
|  |         | MID       | Q16        | 21.96 | 22.21 | 22.09 | 23.00              |          |
|  |         | HIGH      | Q16        | 22.16 | 22.27 | 21.95 | 23.00              |          |
|  | 3       | LOW       | Q16        | 21.96 | 21.98 | 22.18 | 23.00              | 1.0      |
|  |         | MID       | Q16        | 22.07 | 21.82 | 21.82 | 23.00              |          |
|  |         | HIGH      | Q16        | 22.08 | 22.02 | 22.03 | 23.00              |          |
| 6                                      | LOW     | Q16       | 21.20      | 21.04 | 21.21 | 22.00 | 2.0                |          |
| 1.4                                    | 1       | LOW       | 64QAM      | 20.87 | 21.02 | 21.10 | 22.00              | 2.0      |
|  |         | MID       | 64QAM      | 20.94 | 21.18 | 21.22 | 22.00              |          |
|  |         | HIGH      | 64QAM      | 20.91 | 20.84 | 21.22 | 22.00              |          |
|  | 3       | LOW       | 64QAM      | 21.00 | 20.83 | 20.91 | 22.00              | 2.0      |
|  |         | MID       | 64QAM      | 20.69 | 20.83 | 20.91 | 22.00              |          |
|  |         | HIGH      | 64QAM      | 20.96 | 21.01 | 20.76 | 22.00              |          |
| 6                                      | LOW     | 64QAM     | 20.04      | 19.98 | 19.95 | 21.00 | 3.0                |          |
| Bandwidth (MHz)                        | RB Size | RB offset | Modulation | 26715 | 26865 | 27015 | Tune-up power(dBm) | MPR (dB) |
| 3                                      | 1       | LOW       | QPSK       | 22.84 | 23.07 | 23.19 | 24.00              | 0.0      |
|  |         | MID       | QPSK       | 23.22 | 23.18 | 23.19 | 24.00              |          |
|  |         | HIGH      | QPSK       | 22.95 | 22.91 | 23.17 | 24.00              |          |
|  | 8       | LOW       | QPSK       | 22.34 | 22.08 | 21.90 | 23.00              | 1.0      |
|  |         | MID       | QPSK       | 22.04 | 21.99 | 22.07 | 23.00              |          |
|  |         | HIGH      | QPSK       | 22.31 | 21.92 | 22.00 | 23.00              |          |
| 15                                     | LOW     | QPSK      | 21.89      | 21.95 | 22.40 | 23.00 | 1.0                |          |
| 3                                      | 1       | LOW       | Q16        | 22.33 | 21.98 | 22.10 | 23.00              | 1.0      |
|  |         | MID       | Q16        | 22.27 | 22.03 | 22.03 | 23.00              |          |
|  |         | HIGH      | Q16        | 22.02 | 22.37 | 22.07 | 23.00              |          |
|  | 8       | LOW       | Q16        | 20.95 | 20.97 | 21.02 | 22.00              | 2.0      |
|  |         | MID       | Q16        | 21.09 | 20.95 | 20.79 | 22.00              |          |
|  |         | HIGH      | Q16        | 21.07 | 21.25 | 21.20 | 22.00              |          |
| 15                                     | LOW     | Q16       | 21.07      | 20.96 | 21.02 | 22.00 | 2.0                |          |
| 3                                      | 1       | LOW       | 64QAM      | 20.78 | 20.92 | 21.28 | 22.00              | 2.0      |
|  |         | MID       | 64QAM      | 20.89 | 21.11 | 21.12 | 22.00              |          |
|  |         | HIGH      | 64QAM      | 21.05 | 20.99 | 20.77 | 22.00              |          |
|  | 8       | LOW       | 64QAM      | 19.91 | 19.88 | 19.87 | 21.00              | 3.0      |
|  |         | MID       | 64QAM      | 20.01 | 19.70 | 19.98 | 21.00              |          |
|  |         | HIGH      | 64QAM      | 20.12 | 20.15 | 19.76 | 21.00              |          |
| 15                                     | LOW     | 64QAM     | 19.99      | 19.95 | 20.03 | 21.00 | 3.0                |          |
| Bandwidth (MHz)                        | RB Size | RB offset | Modulation | 26715 | 26865 | 27015 | Tune-up power(dBm) | MPR (dB) |
| 5                                      | 1       | LOW       | QPSK       | 22.96 | 23.06 | 22.94 | 24.00              | 0.0      |
|  |         | MID       | QPSK       | 23.39 | 22.99 | 23.20 | 24.00              |          |
|  |         | HIGH      | QPSK       | 23.05 | 23.12 | 23.14 | 24.00              |          |
|  | 12      | LOW       | QPSK       | 22.07 | 22.12 | 21.77 | 23.00              | 1.0      |
|  |         | MID       | QPSK       | 21.82 | 22.02 | 22.00 | 23.00              |          |
|  |         | HIGH      | QPSK       | 22.38 | 22.03 | 22.03 | 23.00              |          |
| 25                                     | LOW     | QPSK      | 22.05      | 22.21 | 22.19 | 23.00 | 1.0                |          |
| 5                                      | 1       | LOW       | Q16        | 22.31 | 22.01 | 22.18 | 23.00              | 1.0      |
|  |         | MID       | Q16        | 22.26 | 22.16 | 21.95 | 23.00              |          |
|  |         | HIGH      | Q16        | 21.95 | 22.15 | 22.02 | 23.00              |          |
|  | 12      | LOW       | Q16        | 21.00 | 21.14 | 21.21 | 22.00              | 2.0      |
|  |         | MID       | Q16        | 21.22 | 20.89 | 20.76 | 22.00              |          |
|  |         | HIGH      | Q16        | 21.21 | 21.25 | 21.13 | 22.00              |          |
| 25                                     | LOW     | Q16       | 21.08      | 20.98 | 21.09 | 22.00 | 2.0                |          |
| 5                                      | 1       | LOW       | 64QAM      | 20.83 | 21.13 | 21.19 | 22.00              | 2.0      |
|  |         | MID       | 64QAM      | 20.81 | 21.12 | 21.04 | 22.00              |          |
|  |         | HIGH      | 64QAM      | 21.15 | 20.79 | 21.04 | 22.00              |          |
|  | 12      | LOW       | 64QAM      | 19.96 | 19.81 | 19.69 | 21.00              | 3.0      |
|  |         | MID       | 64QAM      | 20.03 | 19.72 | 20.15 | 21.00              |          |
|  |         | HIGH      | 64QAM      | 20.08 | 19.95 | 19.73 | 21.00              |          |
| 25                                     | LOW     | 64QAM     | 20.22      | 20.00 | 20.12 | 21.00 | 3.0                |          |



| LTE B26-State1&2&3&4&5&6 -Ant.1 (ENDC) |         |           |            |       |       |       |                    |          |
|--|---------|-----------|------------|-------|-------|-------|--------------------|----------|
| Bandwidth (MHz)                        | RB Size | RB offset | Modulation | 26740 | 26865 | 26990 | Tune-up power(dBm) | MPR (dB) |
| 10                                     | 1       | LOW       | QPSK       | 22.80 | 22.94 | 23.03 | 24.00              | 0.0      |
|  |         | MID       | QPSK       | 23.11 | 23.19 | 23.31 | 24.00              |          |
|  |         | HIGH      | QPSK       | 22.88 | 23.16 | 22.92 | 24.00              |          |
|  | 25      | LOW       | QPSK       | 22.34 | 22.15 | 21.99 | 23.00              | 1.0      |
|  |         | MID       | QPSK       | 21.84 | 21.92 | 21.99 | 23.00              |          |
|  |         | HIGH      | QPSK       | 22.16 | 22.08 | 21.87 | 23.00              |          |
| 50                                     | LOW     | QPSK      | 21.98      | 22.22 | 22.22 | 23.00 | 1.0                |          |
| 10                                     | 1       | LOW       | Q16        | 22.34 | 22.27 | 22.07 | 23.00              | 1.0      |
|  |         | MID       | Q16        | 22.19 | 22.07 | 22.10 | 23.00              |          |
|  |         | HIGH      | Q16        | 21.95 | 22.16 | 22.06 | 23.00              |          |
|  | 25      | LOW       | Q16        | 20.89 | 20.98 | 21.12 | 22.00              | 2.0      |
|  |         | MID       | Q16        | 21.15 | 21.01 | 21.01 | 22.00              |          |
|  |         | HIGH      | Q16        | 21.24 | 21.21 | 21.04 | 22.00              |          |
| 50                                     | LOW     | Q16       | 21.33      | 21.04 | 21.15 | 22.00 | 2.0                |          |
| 10                                     | 1       | LOW       | 64QAM      | 20.72 | 21.03 | 21.19 | 22.00              | 2.0      |
|  |         | MID       | 64QAM      | 20.92 | 21.03 | 21.14 | 22.00              |          |
|  |         | HIGH      | 64QAM      | 21.09 | 20.93 | 20.93 | 22.00              |          |
|  | 25      | LOW       | 64QAM      | 19.80 | 19.90 | 19.78 | 21.00              | 3.0      |
|  |         | MID       | 64QAM      | 19.93 | 19.82 | 20.06 | 21.00              |          |
|  |         | HIGH      | 64QAM      | 19.95 | 20.20 | 20.00 | 21.00              |          |
| 50                                     | LOW     | 64QAM     | 19.94      | 20.13 | 20.04 | 21.00 | 3.0                |          |
| Bandwidth (MHz)                        | RB Size | RB offset | Modulation | 26765 | 26865 | 26965 | Tune-up power(dBm) | MPR (dB) |
| 15                                     | 1       | LOW       | QPSK       | 22.95 | 23.04 | 23.04 | 24.00              | 0.0      |
|  |         | MID       | QPSK       | 23.26 | 23.12 | 23.26 | 24.00              |          |
|  |         | HIGH      | QPSK       | 22.95 | 23.02 | 23.07 | 24.00              |          |
|  | 36      | LOW       | QPSK       | 22.19 | 22.04 | 21.88 | 23.00              | 1.0      |
|  |         | MID       | QPSK       | 21.93 | 21.88 | 21.96 | 23.00              |          |
|  |         | HIGH      | QPSK       | 22.23 | 22.05 | 21.90 | 23.00              |          |
| 75                                     | LOW     | QPSK      | 21.96      | 22.09 | 22.26 | 23.00 | 1.0                |          |
| 15                                     | 1       | LOW       | Q16        | 22.27 | 22.13 | 22.16 | 23.00              | 1.0      |
|  |         | MID       | Q16        | 22.18 | 22.16 | 22.06 | 23.00              |          |
|  |         | HIGH      | Q16        | 22.01 | 22.29 | 22.15 | 23.00              |          |
|  | 36      | LOW       | Q16        | 21.00 | 21.08 | 21.16 | 22.00              | 2.0      |
|  |         | MID       | Q16        | 21.21 | 20.90 | 20.88 | 22.00              |          |
|  |         | HIGH      | Q16        | 21.13 | 21.22 | 21.08 | 22.00              |          |
| 75                                     | LOW     | Q16       | 21.18      | 21.10 | 21.09 | 22.00 | 2.0                |          |
| 15                                     | 1       | LOW       | 64QAM      | 20.83 | 21.03 | 21.20 | 22.00              | 2.0      |
|  |         | MID       | 64QAM      | 20.85 | 21.07 | 21.13 | 22.00              |          |
|  |         | HIGH      | 64QAM      | 21.17 | 20.89 | 20.90 | 22.00              |          |
|  | 36      | LOW       | 64QAM      | 19.86 | 19.93 | 19.74 | 21.00              | 3.0      |
|  |         | MID       | 64QAM      | 19.98 | 19.73 | 20.03 | 21.00              |          |
|  |         | HIGH      | 64QAM      | 20.07 | 20.10 | 19.85 | 21.00              |          |
| 75                                     | LOW     | 64QAM     | 20.07      | 20.03 | 20.04 | 21.00 | 3.0                |          |

## 8.3.5 LTE Band2 Output Power

| LTE B66-Full Power -Ant.1 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 22.44      | 22.42  | 22.33  | 23.40              |                    |
|                                  |                 | MID       | QPSK       | 22.59      | 22.44  | 22.51  | 23.40              |                    |
|                                  |                 | HIGH      | QPSK       | 22.26      | 22.38  | 22.49  | 23.40              |                    |
|                                  | 3               | LOW       | QPSK       | 22.23      | 22.43  | 22.34  | 23.40              |                    |
|                                  |                 | MID       | QPSK       | 22.44      | 22.54  | 22.63  | 23.40              |                    |
|                                  |                 | HIGH      | QPSK       | 22.54      | 22.63  | 22.62  | 23.40              |                    |
|                                  | 6               | LOW       | QPSK       | 21.57      | 21.38  | 21.48  | 22.40              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 21.42  | 21.46  | 21.38              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.38  | 21.58  | 21.65              | 22.40              |
| HIGH                             |                 |           | Q16        | 21.49      | 21.39  | 21.47  | 22.40              |                    |
| 3                                |                 | LOW       | Q16        | 21.43      | 21.32  | 21.52  | 22.40              |                    |
|                                  |                 | MID       | Q16        | 21.24      | 21.21  | 21.34  | 22.40              |                    |
|                                  |                 | HIGH      | Q16        | 21.23      | 21.40  | 21.42  | 22.40              |                    |
| 6                                |                 | LOW       | Q16        | 20.36      | 20.39  | 20.33  | 21.40              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 20.48  | 20.44  | 20.60              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.35  | 20.62  | 20.35              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 20.47      | 20.62  | 20.57  | 21.40              |                    |
|                                  | 3               | LOW       | 64QAM      | 20.47      | 20.34  | 20.40  | 21.40              |                    |
|                                  |                 | MID       | 64QAM      | 20.24      | 20.49  | 20.44  | 21.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.20      | 20.43  | 20.19  | 21.40              |                    |
|                                  | 6               | LOW       | 64QAM      | 19.14      | 19.33  | 19.35  | 20.40              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 22.37  | 22.10  | 22.25              | 23.40              |
| MID                              |                 |           | QPSK       | 22.34      | 22.54  | 22.36  | 23.40              |                    |
| HIGH                             |                 |           | QPSK       | 22.11      | 22.23  | 22.45  | 23.40              |                    |
| 8                                |                 | LOW       | QPSK       | 21.63      | 21.49  | 21.43  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.53      | 21.53  | 21.55  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.32      | 21.48  | 21.59  | 22.40              |                    |
| 15                               |                 | LOW       | QPSK       | 21.44      | 21.42  | 21.66  | 22.40              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 21.41  | 21.45  | 21.38              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.30  | 21.20  | 21.30              | 22.40              |
|                                  | HIGH            |           | Q16        | 21.24      | 21.29  | 21.24  | 22.40              |                    |
|                                  | 8               | LOW       | Q16        | 20.66      | 20.38  | 20.32  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.29      | 20.55  | 20.60  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.69      | 20.39  | 20.73  | 21.40              |                    |
|                                  | 15              | LOW       | Q16        | 20.36      | 20.68  | 20.30  | 21.40              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 20.35  | 20.19  | 20.17              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.43  | 20.22  | 20.12              | 21.40              |
| HIGH                             |                 |           | 64QAM      | 19.98      | 20.22  | 20.52  | 21.40              |                    |
| 8                                |                 | LOW       | 64QAM      | 19.28      | 19.34  | 19.48  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.19      | 19.30  | 19.43  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.40      | 19.48  | 19.44  | 20.40              |                    |
| 15                               |                 | LOW       | 64QAM      | 19.26      | 19.09  | 19.23  | 20.40              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 22.24  | 22.13  | 22.47              | 23.40              |
|                                  | MID             |           | QPSK       | 22.46      | 22.32  | 22.30  | 23.40              |                    |
|                                  | HIGH            |           | QPSK       | 22.18      | 22.15  | 22.27  | 23.40              |                    |
|                                  | 12              | LOW       | QPSK       | 21.75      | 21.61  | 21.26  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.39      | 21.36  | 21.62  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.55      | 21.68  | 21.70  | 22.40              |                    |
|                                  | 25              | LOW       | QPSK       | 21.60      | 21.56  | 21.45  | 22.40              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 21.33  | 21.33  | 21.41              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.12  | 21.37  | 21.08              | 22.40              |
| HIGH                             |                 |           | Q16        | 21.39      | 21.08  | 21.21  | 22.40              |                    |
| 12                               |                 | LOW       | Q16        | 20.58      | 20.51  | 20.31  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.45      | 20.60  | 20.71  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.52      | 20.41  | 20.48  | 21.40              |                    |
| 25                               |                 | LOW       | Q16        | 20.38      | 20.68  | 20.31  | 21.40              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 20.44  | 20.40  | 20.24              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.21  | 20.35  | 20.05              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 19.98      | 20.13  | 20.32  | 21.40              |                    |
|                                  | 12              | LOW       | 64QAM      | 19.07      | 19.24  | 19.56  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.11      | 19.04  | 19.59  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.23      | 19.46  | 19.43  | 20.40              |                    |
|                                  | 25              | LOW       | 64QAM      | 19.14      | 19.10  | 19.13  | 20.40              |                    |

| LTE B66-Full Power -Ant.1 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 22.28      | 22.08  | 22.19  | 23.40              |                    |
|                                  |                 | MID       | QPSK       | 22.41      | 22.33  | 22.38  | 23.40              |                    |
|                                  |                 | HIGH      | QPSK       | 22.16      | 22.42  | 22.37  | 23.40              |                    |
|                                  | 25              | LOW       | QPSK       | 21.56      | 21.42  | 21.44  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.38      | 21.46  | 21.53  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.33      | 21.71  | 21.74  | 22.40              |                    |
|                                  | 50              | LOW       | QPSK       | 21.70      | 21.51  | 21.65  | 22.40              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 21.42  | 21.40  | 21.42              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.14  | 21.23  | 21.33              | 22.40              |
| HIGH                             |                 |           | Q16        | 21.38      | 21.08  | 21.17  | 22.40              |                    |
| 25                               |                 | LOW       | Q16        | 20.65      | 20.36  | 20.36  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.43      | 20.38  | 20.63  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.54      | 20.53  | 20.60  | 21.40              |                    |
| 50                               |                 | LOW       | Q16        | 20.42      | 20.55  | 20.28  | 21.40              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 20.41  | 20.24  | 20.26              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.43  | 20.46  | 20.24              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 20.25      | 20.10  | 20.36  | 21.40              |                    |
|                                  | 25              | LOW       | 64QAM      | 19.04      | 19.43  | 19.45  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.10      | 19.07  | 19.51  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.27      | 19.53  | 19.62  | 20.40              |                    |
|                                  | 50              | LOW       | 64QAM      | 19.04      | 19.18  | 19.34  | 20.40              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 22.35  | 22.28  | 22.35              | 23.40              |
| MID                              |                 |           | QPSK       | 22.26      | 22.34  | 22.29  | 23.40              |                    |
| HIGH                             |                 |           | QPSK       | 22.21      | 22.34  | 22.17  | 23.40              |                    |
| 36                               |                 | LOW       | QPSK       | 21.80      | 21.38  | 21.48  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.38      | 21.43  | 21.64  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.46      | 21.49  | 21.65  | 22.40              |                    |
| 75                               |                 | LOW       | QPSK       | 21.53      | 21.32  | 21.60  | 22.40              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 21.42  | 21.48  | 21.33              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.28  | 21.25  | 21.08              | 22.40              |
|                                  | HIGH            |           | Q16        | 21.44      | 21.32  | 21.20  | 22.40              |                    |
|                                  | 36              | LOW       | Q16        | 20.52      | 20.57  | 20.35  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.29      | 20.34  | 20.48  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.45      | 20.43  | 20.52  | 21.40              |                    |
|                                  | 75              | LOW       | Q16        | 20.53      | 20.53  | 20.37  | 21.40              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 20.51  | 20.22  | 20.18              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.37  | 20.33  | 20.21              | 21.40              |
| HIGH                             |                 |           | 64QAM      | 19.98      | 20.16  | 20.48  | 21.40              |                    |
| 36                               |                 | LOW       | 64QAM      | 19.05      | 19.20  | 19.45  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.36      | 19.31  | 19.43  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.37      | 19.52  | 19.62  | 20.40              |                    |
| 75                               |                 | LOW       | 64QAM      | 19.24      | 19.14  | 19.20  | 20.40              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                               |                 | 1         | LOW        | QPSK       | 22.28  | 22.23  | 22.34              | 23.40              |
|                                  | MID             |           | QPSK       | 22.37      | 22.46  | 22.33  | 23.40              |                    |
|                                  | HIGH            |           | QPSK       | 22.15      | 22.28  | 22.32  | 23.40              |                    |
|                                  | 50              | LOW       | QPSK       | 21.66      | 21.46  | 21.36  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.44      | 21.50  | 21.61  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.42      | 21.63  | 21.65  | 22.40              |                    |
|                                  | 100             | LOW       | QPSK       | 21.59      | 21.42  | 21.53  | 22.40              |                    |
|                                  | 20              | 1         | LOW        | Q16        | 21.27  | 21.34  | 21.46              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.20  | 21.23  | 21.18              | 22.40              |
| HIGH                             |                 |           | Q16        | 21.29      | 21.22  | 21.19  | 22.40              |                    |
| 50                               |                 | LOW       | Q16        | 20.59      | 20.43  | 20.28  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.30      | 20.48  | 20.63  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.58      | 20.45  | 20.62  | 21.40              |                    |
| 100                              |                 | LOW       | Q16        | 20.47      | 20.54  | 20.30  | 21.40              |                    |
| 20                               |                 | 1         | LOW        | 64QAM      | 20.45  | 20.28  | 20.22              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.35  | 20.37  | 20.14              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 20.11      | 20.12  | 20.45  | 21.40              |                    |
|                                  | 50              | LOW       | 64QAM      | 19.13      | 19.28  | 19.43  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.24      | 19.16  | 19.46  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.25      | 19.40  | 19.48  | 20.40              |                    |
|                                  | 100             | LOW       | 64QAM      | 19.16      | 19.16  | 19.20  | 20.40              |                    |

| LTE B66-State1&3&5 -Ant.1 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 19.30      | 19.40  | 19.43  | 19.90              |                    |
|                                  |                 | MID       | QPSK       | 19.29      | 19.38  | 19.35  | 19.90              |                    |
|                                  |                 | HIGH      | QPSK       | 19.31      | 19.37  | 19.30  | 19.90              |                    |
|                                  | 3               | LOW       | QPSK       | 19.61      | 19.42  | 19.38  | 19.90              |                    |
|                                  |                 | MID       | QPSK       | 19.37      | 19.30  | 19.55  | 19.90              |                    |
|                                  |                 | HIGH      | QPSK       | 19.48      | 19.42  | 19.24  | 19.90              |                    |
|                                  | 6               | LOW       | QPSK       | 19.53      | 19.43  | 19.60  | 19.90              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 19.55  | 19.38  | 19.35              | 19.90              |
|                                  |                 |           | MID        | Q16        | 19.53  | 19.31  | 19.36              | 19.90              |
| HIGH                             |                 |           | Q16        | 19.52      | 19.23  | 19.32  | 19.90              |                    |
| 3                                |                 | LOW       | Q16        | 19.28      | 19.35  | 19.38  | 19.90              |                    |
|                                  |                 | MID       | Q16        | 19.15      | 19.15  | 19.51  | 19.90              |                    |
|                                  |                 | HIGH      | Q16        | 19.36      | 19.38  | 19.54  | 19.90              |                    |
| 6                                |                 | LOW       | Q16        | 19.38      | 19.36  | 19.41  | 19.90              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 19.41  | 19.40  | 19.54              | 19.90              |
|                                  |                 |           | MID        | 64QAM      | 19.46  | 19.50  | 19.52              | 19.90              |
|                                  | HIGH            |           | 64QAM      | 19.27      | 19.53  | 19.31  | 19.90              |                    |
|                                  | 3               | LOW       | 64QAM      | 19.44      | 19.31  | 19.21  | 19.90              |                    |
|                                  |                 | MID       | 64QAM      | 19.50      | 19.38  | 19.31  | 19.90              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.29      | 19.30  | 19.15  | 19.90              |                    |
|                                  | 6               | LOW       | 64QAM      | 19.23      | 19.34  | 19.29  | 19.90              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 19.26  | 19.31  | 19.11              | 19.90              |
| MID                              |                 |           | QPSK       | 19.41      | 19.50  | 19.37  | 19.90              |                    |
| HIGH                             |                 |           | QPSK       | 19.13      | 19.31  | 19.18  | 19.90              |                    |
| 8                                |                 | LOW       | QPSK       | 19.42      | 19.44  | 19.46  | 19.90              |                    |
|                                  |                 | MID       | QPSK       | 19.38      | 19.26  | 19.52  | 19.90              |                    |
|                                  |                 | HIGH      | QPSK       | 19.21      | 19.61  | 19.40  | 19.90              |                    |
| 15                               |                 | LOW       | QPSK       | 19.43      | 19.28  | 19.36  | 19.90              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 19.43  | 19.39  | 19.49              | 19.90              |
|                                  |                 |           | MID        | Q16        | 19.33  | 19.63  | 19.61              | 19.90              |
|                                  | HIGH            |           | Q16        | 19.34      | 19.26  | 19.34  | 19.90              |                    |
|                                  | 8               | LOW       | Q16        | 19.46      | 19.58  | 19.65  | 19.90              |                    |
|                                  |                 | MID       | Q16        | 19.47      | 19.30  | 19.36  | 19.90              |                    |
|                                  |                 | HIGH      | Q16        | 19.62      | 19.70  | 19.18  | 19.90              |                    |
|                                  | 15              | LOW       | Q16        | 19.67      | 19.52  | 19.45  | 19.90              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 19.25  | 19.27  | 19.05              | 19.90              |
|                                  |                 |           | MID        | 64QAM      | 19.20  | 19.45  | 19.39              | 19.90              |
| HIGH                             |                 |           | 64QAM      | 19.35      | 19.26  | 19.17  | 19.90              |                    |
| 8                                |                 | LOW       | 64QAM      | 19.26      | 19.15  | 18.98  | 19.90              |                    |
|                                  |                 | MID       | 64QAM      | 18.87      | 18.96  | 19.16  | 19.90              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.22      | 19.12  | 19.06  | 19.90              |                    |
| 15                               |                 | LOW       | 64QAM      | 19.24      | 19.34  | 19.21  | 19.90              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 19.22  | 19.19  | 19.28              | 19.90              |
|                                  | MID             |           | QPSK       | 19.40      | 19.55  | 19.46  | 19.90              |                    |
|                                  | HIGH            |           | QPSK       | 19.24      | 19.33  | 19.36  | 19.90              |                    |
|                                  | 12              | LOW       | QPSK       | 19.46      | 19.39  | 19.49  | 19.90              |                    |
|                                  |                 | MID       | QPSK       | 19.36      | 19.33  | 19.50  | 19.90              |                    |
|                                  |                 | HIGH      | QPSK       | 19.16      | 19.49  | 19.53  | 19.90              |                    |
|                                  | 25              | LOW       | QPSK       | 19.29      | 19.53  | 19.21  | 19.90              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 19.51  | 19.25  | 19.20              | 19.90              |
|                                  |                 |           | MID        | Q16        | 19.40  | 19.44  | 19.51              | 19.90              |
| HIGH                             |                 |           | Q16        | 19.33      | 19.17  | 19.10  | 19.90              |                    |
| 12                               |                 | LOW       | Q16        | 19.51      | 19.54  | 19.52  | 19.90              |                    |
|                                  |                 | MID       | Q16        | 19.65      | 19.31  | 19.20  | 19.90              |                    |
|                                  |                 | HIGH      | Q16        | 19.41      | 19.68  | 19.32  | 19.90              |                    |
| 25                               |                 | LOW       | Q16        | 19.53      | 19.65  | 19.45  | 19.90              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 19.34  | 19.13  | 19.18              | 19.90              |
|                                  |                 |           | MID        | 64QAM      | 19.43  | 19.29  | 19.41              | 19.90              |
|                                  | HIGH            |           | 64QAM      | 19.37      | 19.37  | 19.21  | 19.90              |                    |
|                                  | 12              | LOW       | 64QAM      | 19.13      | 19.18  | 19.12  | 19.90              |                    |
|                                  |                 | MID       | 64QAM      | 18.83      | 19.10  | 19.33  | 19.90              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.23      | 19.28  | 18.98  | 19.90              |                    |
|                                  | 25              | LOW       | 64QAM      | 19.13      | 19.24  | 18.98  | 19.90              |                    |

| LTE B66-State1&3&5 -Ant.1 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 19.09      | 19.13  | 19.12  | 19.90              |                    |
|                                  |                 | MID       | QPSK       | 19.43      | 19.49  | 19.43  | 19.90              |                    |
|                                  |                 | HIGH      | QPSK       | 19.33      | 19.26  | 19.15  | 19.90              |                    |
|                                  | 25              | LOW       | QPSK       | 19.61      | 19.55  | 19.54  | 19.90              |                    |
|                                  |                 | MID       | QPSK       | 19.18      | 19.22  | 19.53  | 19.90              |                    |
|                                  |                 | HIGH      | QPSK       | 19.35      | 19.47  | 19.35  | 19.90              |                    |
|                                  | 50              | LOW       | QPSK       | 19.52      | 19.50  | 19.32  | 19.90              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 19.27  | 19.41  | 19.36              | 19.90              |
|                                  |                 |           | MID        | Q16        | 19.34  | 19.66  | 19.52              | 19.90              |
| HIGH                             |                 |           | Q16        | 19.16      | 19.21  | 19.12  | 19.90              |                    |
| 25                               |                 | LOW       | Q16        | 19.61      | 19.36  | 19.51  | 19.90              |                    |
|                                  |                 | MID       | Q16        | 19.56      | 19.16  | 19.21  | 19.90              |                    |
|                                  |                 | HIGH      | Q16        | 19.42      | 19.49  | 19.30  | 19.90              |                    |
| 50                               |                 | LOW       | Q16        | 19.51      | 19.60  | 19.59  | 19.90              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 19.27  | 19.22  | 19.13              | 19.90              |
|                                  |                 |           | MID        | 64QAM      | 19.21  | 19.46  | 19.35              | 19.90              |
|                                  | HIGH            |           | 64QAM      | 19.33      | 19.24  | 19.18  | 19.90              |                    |
|                                  | 25              | LOW       | 64QAM      | 18.99      | 19.04  | 19.13  | 19.90              |                    |
|                                  |                 | MID       | 64QAM      | 19.00      | 19.05  | 19.21  | 19.90              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.18      | 19.33  | 18.96  | 19.90              |                    |
|                                  | 50              | LOW       | 64QAM      | 19.37      | 19.28  | 19.05  | 19.90              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 19.29  | 19.24  | 19.15              | 19.90              |
| MID                              |                 |           | QPSK       | 19.45      | 19.45  | 19.27  | 19.90              |                    |
| HIGH                             |                 |           | QPSK       | 19.19      | 19.26  | 19.28  | 19.90              |                    |
| 36                               |                 | LOW       | QPSK       | 19.63      | 19.43  | 19.25  | 19.90              |                    |
|                                  |                 | MID       | QPSK       | 19.25      | 19.36  | 19.29  | 19.90              |                    |
|                                  |                 | HIGH      | QPSK       | 19.19      | 19.54  | 19.53  | 19.90              |                    |
| 75                               |                 | LOW       | QPSK       | 19.32      | 19.47  | 19.30  | 19.90              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 19.40  | 19.43  | 19.28              | 19.90              |
|                                  |                 |           | MID        | Q16        | 19.35  | 19.60  | 19.36              | 19.90              |
|                                  | HIGH            |           | Q16        | 19.39      | 19.22  | 19.30  | 19.90              |                    |
|                                  | 36              | LOW       | Q16        | 19.47      | 19.28  | 19.71  | 19.90              |                    |
|                                  |                 | MID       | Q16        | 19.50      | 19.40  | 19.41  | 19.90              |                    |
|                                  |                 | HIGH      | Q16        | 19.53      | 19.45  | 19.40  | 19.90              |                    |
|                                  | 75              | LOW       | Q16        | 19.68      | 19.74  | 19.40  | 19.90              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 19.29  | 19.40  | 19.07              | 19.90              |
|                                  |                 |           | MID        | 64QAM      | 19.41  | 19.45  | 19.39              | 19.90              |
| HIGH                             |                 |           | 64QAM      | 19.16      | 19.08  | 19.27  | 19.90              |                    |
| 36                               |                 | LOW       | 64QAM      | 19.03      | 19.25  | 19.24  | 19.90              |                    |
|                                  |                 | MID       | 64QAM      | 18.98      | 19.04  | 19.37  | 19.90              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.17      | 19.41  | 18.84  | 19.90              |                    |
| 75                               |                 | LOW       | 64QAM      | 19.37      | 19.15  | 19.11  | 19.90              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                               |                 | 1         | LOW        | QPSK       | 19.21  | 19.25  | 19.24              | 19.90              |
|                                  | MID             |           | QPSK       | 19.38      | 19.43  | 19.49  | 19.90              |                    |
|                                  | HIGH            |           | QPSK       | 19.20      | 19.27  | 19.25  | 19.90              |                    |
|                                  | 50              | LOW       | QPSK       | 19.40      | 19.42  | 19.57  | 19.90              |                    |
|                                  |                 | MID       | QPSK       | 19.30      | 19.22  | 19.40  | 19.90              |                    |
|                                  |                 | HIGH      | QPSK       | 19.27      | 19.54  | 19.46  | 19.90              |                    |
|                                  | 100             | LOW       | QPSK       | 19.37      | 19.40  | 19.33  | 19.90              |                    |
|                                  | 20              | 1         | LOW        | Q16        | 19.36  | 19.34  | 19.35              | 19.90              |
|                                  |                 |           | MID        | Q16        | 19.32  | 19.51  | 19.50              | 19.90              |
| HIGH                             |                 |           | Q16        | 19.27      | 19.24  | 19.25  | 19.90              |                    |
| 50                               |                 | LOW       | Q16        | 19.47      | 19.43  | 19.56  | 19.90              |                    |
|                                  |                 | MID       | Q16        | 19.51      | 19.29  | 19.33  | 19.90              |                    |
|                                  |                 | HIGH      | Q16        | 19.47      | 19.59  | 19.33  | 19.90              |                    |
| 100                              |                 | LOW       | Q16        | 19.60      | 19.60  | 19.45  | 19.90              |                    |
| 20                               |                 | 1         | LOW        | 64QAM      | 19.35  | 19.26  | 19.12              | 19.90              |
|                                  |                 |           | MID        | 64QAM      | 19.33  | 19.33  | 19.39              | 19.90              |
|                                  | HIGH            |           | 64QAM      | 19.24      | 19.22  | 19.30  | 19.90              |                    |
|                                  | 50              | LOW       | 64QAM      | 19.14      | 19.12  | 19.12  | 19.90              |                    |
|                                  |                 | MID       | 64QAM      | 18.92      | 18.98  | 19.31  | 19.90              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.27      | 19.26  | 18.93  | 19.90              |                    |
|                                  | 100             | LOW       | 64QAM      | 19.25      | 19.27  | 19.12  | 19.90              |                    |

| LTE B66-State2&4&6 -Ant.1 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 22.44      | 22.42  | 22.33  | 23.40              |                    |
|                                  |                 | MID       | QPSK       | 22.59      | 22.44  | 22.51  | 23.40              |                    |
|                                  |                 | HIGH      | QPSK       | 22.26      | 22.38  | 22.49  | 23.40              |                    |
|                                  | 3               | LOW       | QPSK       | 22.23      | 22.43  | 22.34  | 23.40              |                    |
|                                  |                 | MID       | QPSK       | 22.44      | 22.54  | 22.63  | 23.40              |                    |
|                                  |                 | HIGH      | QPSK       | 22.54      | 22.63  | 22.62  | 23.40              |                    |
|                                  | 6               | LOW       | QPSK       | 21.57      | 21.38  | 21.48  | 22.40              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 21.42  | 21.46  | 21.38              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.38  | 21.58  | 21.65              | 22.40              |
| HIGH                             |                 |           | Q16        | 21.49      | 21.39  | 21.47  | 22.40              |                    |
| 3                                |                 | LOW       | Q16        | 21.43      | 21.32  | 21.52  | 22.40              |                    |
|                                  |                 | MID       | Q16        | 21.24      | 21.21  | 21.34  | 22.40              |                    |
|                                  |                 | HIGH      | Q16        | 21.23      | 21.40  | 21.42  | 22.40              |                    |
| 6                                |                 | LOW       | Q16        | 20.36      | 20.39  | 20.33  | 21.40              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 20.48  | 20.44  | 20.60              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.35  | 20.62  | 20.35              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 20.47      | 20.62  | 20.57  | 21.40              |                    |
|                                  | 3               | LOW       | 64QAM      | 20.47      | 20.34  | 20.40  | 21.40              |                    |
|                                  |                 | MID       | 64QAM      | 20.24      | 20.49  | 20.44  | 21.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.20      | 20.43  | 20.19  | 21.40              |                    |
|                                  | 6               | LOW       | 64QAM      | 19.14      | 19.33  | 19.35  | 20.40              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 22.37  | 22.10  | 22.25              | 23.40              |
| MID                              |                 |           | QPSK       | 22.34      | 22.54  | 22.36  | 23.40              |                    |
| HIGH                             |                 |           | QPSK       | 22.11      | 22.23  | 22.45  | 23.40              |                    |
| 8                                |                 | LOW       | QPSK       | 21.63      | 21.49  | 21.43  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.53      | 21.53  | 21.55  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.32      | 21.48  | 21.59  | 22.40              |                    |
| 15                               |                 | LOW       | QPSK       | 21.44      | 21.42  | 21.66  | 22.40              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 21.41  | 21.45  | 21.38              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.30  | 21.20  | 21.30              | 22.40              |
|                                  | HIGH            |           | Q16        | 21.24      | 21.29  | 21.24  | 22.40              |                    |
|                                  | 8               | LOW       | Q16        | 20.66      | 20.38  | 20.32  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.29      | 20.55  | 20.60  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.69      | 20.39  | 20.73  | 21.40              |                    |
|                                  | 15              | LOW       | Q16        | 20.36      | 20.68  | 20.30  | 21.40              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 20.35  | 20.19  | 20.17              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.43  | 20.22  | 20.12              | 21.40              |
| HIGH                             |                 |           | 64QAM      | 19.98      | 20.22  | 20.52  | 21.40              |                    |
| 8                                |                 | LOW       | 64QAM      | 19.28      | 19.34  | 19.48  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.19      | 19.30  | 19.43  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.40      | 19.48  | 19.44  | 20.40              |                    |
| 15                               |                 | LOW       | 64QAM      | 19.26      | 19.09  | 19.23  | 20.40              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 22.24  | 22.13  | 22.47              | 23.40              |
|                                  | MID             |           | QPSK       | 22.46      | 22.32  | 22.30  | 23.40              |                    |
|                                  | HIGH            |           | QPSK       | 22.18      | 22.15  | 22.27  | 23.40              |                    |
|                                  | 12              | LOW       | QPSK       | 21.75      | 21.61  | 21.26  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.39      | 21.36  | 21.62  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.55      | 21.68  | 21.70  | 22.40              |                    |
|                                  | 25              | LOW       | QPSK       | 21.60      | 21.56  | 21.45  | 22.40              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 21.33  | 21.33  | 21.41              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.12  | 21.37  | 21.08              | 22.40              |
| HIGH                             |                 |           | Q16        | 21.39      | 21.08  | 21.21  | 22.40              |                    |
| 12                               |                 | LOW       | Q16        | 20.58      | 20.51  | 20.31  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.45      | 20.60  | 20.71  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.52      | 20.41  | 20.48  | 21.40              |                    |
| 25                               |                 | LOW       | Q16        | 20.38      | 20.68  | 20.31  | 21.40              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 20.44  | 20.40  | 20.24              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.21  | 20.35  | 20.05              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 19.98      | 20.13  | 20.32  | 21.40              |                    |
|                                  | 12              | LOW       | 64QAM      | 19.07      | 19.24  | 19.56  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.11      | 19.04  | 19.59  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.23      | 19.46  | 19.43  | 20.40              |                    |
|                                  | 25              | LOW       | 64QAM      | 19.14      | 19.10  | 19.13  | 20.40              |                    |

| LTE B66-State2&4&6 -Ant.1 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 22.28      | 22.08  | 22.19  | 23.40              |                    |
|                                  |                 | MID       | QPSK       | 22.41      | 22.33  | 22.38  | 23.40              |                    |
|                                  |                 | HIGH      | QPSK       | 22.16      | 22.42  | 22.37  | 23.40              |                    |
|                                  | 25              | LOW       | QPSK       | 21.56      | 21.42  | 21.44  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.38      | 21.46  | 21.53  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.33      | 21.71  | 21.74  | 22.40              |                    |
|                                  | 50              | LOW       | QPSK       | 21.70      | 21.51  | 21.65  | 22.40              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 21.42  | 21.40  | 21.42              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.14  | 21.23  | 21.33              | 22.40              |
| HIGH                             |                 |           | Q16        | 21.38      | 21.08  | 21.17  | 22.40              |                    |
| 25                               |                 | LOW       | Q16        | 20.65      | 20.36  | 20.36  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.43      | 20.38  | 20.63  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.54      | 20.53  | 20.60  | 21.40              |                    |
| 50                               |                 | LOW       | Q16        | 20.42      | 20.55  | 20.28  | 21.40              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 20.41  | 20.24  | 20.26              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.43  | 20.46  | 20.24              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 20.25      | 20.10  | 20.36  | 21.40              |                    |
|                                  | 25              | LOW       | 64QAM      | 19.04      | 19.43  | 19.45  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.10      | 19.07  | 19.51  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.27      | 19.53  | 19.62  | 20.40              |                    |
|                                  | 50              | LOW       | 64QAM      | 19.04      | 19.18  | 19.34  | 20.40              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 22.35  | 22.28  | 22.35              | 23.40              |
| MID                              |                 |           | QPSK       | 22.26      | 22.34  | 22.29  | 23.40              |                    |
| HIGH                             |                 |           | QPSK       | 22.21      | 22.34  | 22.17  | 23.40              |                    |
| 36                               |                 | LOW       | QPSK       | 21.80      | 21.38  | 21.48  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.38      | 21.43  | 21.64  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.46      | 21.49  | 21.65  | 22.40              |                    |
| 75                               |                 | LOW       | QPSK       | 21.53      | 21.32  | 21.60  | 22.40              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 21.42  | 21.48  | 21.33              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.28  | 21.25  | 21.08              | 22.40              |
|                                  | HIGH            |           | Q16        | 21.44      | 21.32  | 21.20  | 22.40              |                    |
|                                  | 36              | LOW       | Q16        | 20.52      | 20.57  | 20.35  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.29      | 20.34  | 20.48  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.45      | 20.43  | 20.52  | 21.40              |                    |
|                                  | 75              | LOW       | Q16        | 20.53      | 20.53  | 20.37  | 21.40              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 20.51  | 20.22  | 20.18              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.37  | 20.33  | 20.21              | 21.40              |
| HIGH                             |                 |           | 64QAM      | 19.98      | 20.16  | 20.48  | 21.40              |                    |
| 36                               |                 | LOW       | 64QAM      | 19.05      | 19.20  | 19.45  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.36      | 19.31  | 19.43  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.37      | 19.52  | 19.62  | 20.40              |                    |
| 75                               |                 | LOW       | 64QAM      | 19.24      | 19.14  | 19.20  | 20.40              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                               |                 | 1         | LOW        | QPSK       | 22.28  | 22.23  | 22.34              | 23.40              |
|                                  | MID             |           | QPSK       | 22.37      | 22.33  | 22.46  | 23.40              |                    |
|                                  | HIGH            |           | QPSK       | 22.15      | 22.28  | 22.32  | 23.40              |                    |
|                                  | 50              | LOW       | QPSK       | 21.36      | 21.46  | 21.66  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.44      | 21.50  | 21.61  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.42      | 21.63  | 21.65  | 22.40              |                    |
|                                  | 100             | LOW       | QPSK       | 21.59      | 21.42  | 21.53  | 22.40              |                    |
|                                  | 20              | 1         | LOW        | Q16        | 21.27  | 21.34  | 21.46              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.20  | 21.23  | 21.18              | 22.40              |
| HIGH                             |                 |           | Q16        | 21.29      | 21.22  | 21.19  | 22.40              |                    |
| 50                               |                 | LOW       | Q16        | 20.59      | 20.43  | 20.28  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.30      | 20.48  | 20.63  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.58      | 20.45  | 20.62  | 21.40              |                    |
| 100                              |                 | LOW       | Q16        | 20.47      | 20.54  | 20.30  | 21.40              |                    |
| 20                               |                 | 1         | LOW        | 64QAM      | 20.45  | 20.28  | 20.22              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.35  | 20.37  | 20.14              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 20.11      | 20.12  | 20.45  | 21.40              |                    |
|                                  | 50              | LOW       | 64QAM      | 19.13      | 19.28  | 19.43  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.24      | 19.16  | 19.46  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.25      | 19.40  | 19.48  | 20.40              |                    |
|                                  | 100             | LOW       | 64QAM      | 19.16      | 19.16  | 19.20  | 20.40              |                    |

### 8.3.5 LTE Band2 Output Power

BL-SZ2320168-701

| LTE B66-Full Power -Ant.3 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 23.33      | 23.40  | 23.27  | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.38      | 23.42  | 23.36  | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.27      | 23.37  | 23.49  | 24.00              |                    |
|                                  | 3               | LOW       | QPSK       | 23.19      | 23.38  | 23.52  | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.50      | 23.51  | 23.28  | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.31      | 23.54  | 23.30  | 24.00              |                    |
|                                  | 6               | LOW       | QPSK       | 22.27      | 22.40  | 22.60  | 23.00              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 22.43  | 22.45  | 22.26              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.52  | 22.29  | 22.30              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.59      | 22.36  | 22.50  | 23.00              |                    |
| 3                                |                 | LOW       | Q16        | 22.28      | 22.32  | 22.30  | 23.00              |                    |
|                                  |                 | MID       | Q16        | 22.16      | 22.17  | 22.12  | 23.00              |                    |
|                                  |                 | HIGH      | Q16        | 22.46      | 22.40  | 22.46  | 23.00              |                    |
| 6                                |                 | LOW       | Q16        | 21.19      | 21.32  | 21.25  | 22.00              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 21.59  | 21.42  | 21.45              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.45  | 21.60  | 21.47              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.33      | 21.48  | 21.24  | 22.00              |                    |
|                                  | 3               | LOW       | 64QAM      | 21.29      | 21.30  | 21.48  | 22.00              |                    |
|                                  |                 | MID       | 64QAM      | 21.34      | 21.15  | 21.50  | 22.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 21.29      | 21.34  | 21.48  | 22.00              |                    |
|                                  | 6               | LOW       | 64QAM      | 20.16      | 20.32  | 20.36  | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 23.11  | 23.14  | 23.14              | 24.00              |
| MID                              |                 |           | QPSK       | 23.38      | 23.43  | 23.38  | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 23.21      | 23.16  | 23.21  | 24.00              |                    |
| 8                                |                 | LOW       | QPSK       | 22.77      | 22.47  | 22.65  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.72      | 22.41  | 22.42  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.35      | 22.23  | 22.30  | 23.00              |                    |
| 15                               |                 | LOW       | QPSK       | 22.26      | 22.28  | 22.52  | 23.00              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 22.51  | 22.45  | 22.30              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.31  | 22.33  | 22.54              | 23.00              |
|                                  | HIGH            |           | Q16        | 22.56      | 22.58  | 22.16  | 23.00              |                    |
|                                  | 8               | LOW       | Q16        | 21.55      | 21.39  | 21.64  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.53      | 21.38  | 21.55  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.44      | 21.35  | 21.68  | 22.00              |                    |
|                                  | 15              | LOW       | Q16        | 21.55      | 21.57  | 21.57  | 22.00              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 21.21  | 21.35  | 21.51              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.45  | 21.48  | 21.43              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 21.24      | 21.56  | 21.50  | 22.00              |                    |
| 8                                |                 | LOW       | 64QAM      | 20.45      | 20.32  | 20.41  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.41      | 20.13  | 20.44  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.66      | 20.14  | 20.22  | 21.00              |                    |
| 15                               |                 | LOW       | 64QAM      | 20.69      | 20.67  | 20.41  | 21.00              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 23.05  | 23.13  | 23.13              | 24.00              |
|                                  | MID             |           | QPSK       | 23.29      | 23.49  | 23.39  | 24.00              |                    |
|                                  | HIGH            |           | QPSK       | 23.11      | 23.28  | 23.30  | 24.00              |                    |
|                                  | 12              | LOW       | QPSK       | 22.54      | 22.61  | 22.57  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.57      | 22.36  | 22.30  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.20      | 22.39  | 22.33  | 23.00              |                    |
|                                  | 25              | LOW       | QPSK       | 22.42      | 22.32  | 22.45  | 23.00              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 22.39  | 22.48  | 22.34              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.24  | 22.27  | 22.43              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.54      | 22.64  | 22.46  | 23.00              |                    |
| 12                               |                 | LOW       | Q16        | 21.46      | 21.52  | 21.50  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.53      | 21.27  | 21.55  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.39      | 21.38  | 21.61  | 22.00              |                    |
| 25                               |                 | LOW       | Q16        | 21.75      | 21.39  | 21.47  | 22.00              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 21.32  | 21.17  | 21.44              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.38  | 21.62  | 21.25              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.23      | 21.54  | 21.51  | 22.00              |                    |
|                                  | 12              | LOW       | 64QAM      | 20.28      | 20.43  | 20.67  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.37      | 20.38  | 20.48  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.39      | 20.39  | 20.24  | 21.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 20.74      | 20.47  | 20.33  | 21.00              |                    |



| LTE B66-Full Power -Ant.3 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 23.07      | 23.36  | 23.20  | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.36      | 23.57  | 23.41  | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.18      | 23.26  | 23.05  | 24.00              |                    |
|                                  | 25              | LOW       | QPSK       | 22.74      | 22.44  | 22.50  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.51      | 22.32  | 22.39  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.46      | 22.23  | 22.51  | 23.00              |                    |
|                                  | 50              | LOW       | QPSK       | 22.23      | 22.37  | 22.35  | 23.00              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 22.58  | 22.45  | 22.48              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.27  | 22.40  | 22.25              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.39      | 22.34  | 22.17  | 23.00              |                    |
| 25                               |                 | LOW       | Q16        | 21.40      | 21.40  | 21.46  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.55      | 21.21  | 21.60  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.29      | 21.30  | 21.65  | 22.00              |                    |
| 50                               |                 | LOW       | Q16        | 21.49      | 21.48  | 21.58  | 22.00              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 21.30  | 21.47  | 21.50              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.47  | 21.48  | 21.28              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.18      | 21.53  | 21.58  | 22.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 20.17      | 20.35  | 20.45  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.41      | 20.17  | 20.46  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.67      | 20.10  | 20.33  | 21.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 20.65      | 20.46  | 20.27  | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 23.28  | 23.18  | 23.12              | 24.00              |
| MID                              |                 |           | QPSK       | 23.35      | 23.43  | 23.55  | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 23.09      | 23.11  | 23.12  | 24.00              |                    |
| 36                               |                 | LOW       | QPSK       | 22.50      | 22.33  | 22.64  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.80      | 22.28  | 22.37  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.28      | 22.51  | 22.45  | 23.00              |                    |
| 75                               |                 | LOW       | QPSK       | 22.43      | 22.46  | 22.50  | 23.00              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 22.57  | 22.33  | 22.31              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.41  | 22.35  | 22.31              | 23.00              |
|                                  | HIGH            |           | Q16        | 22.33      | 22.43  | 22.28  | 23.00              |                    |
|                                  | 36              | LOW       | Q16        | 21.52      | 21.26  | 21.62  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.53      | 21.24  | 21.61  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.33      | 21.43  | 21.64  | 22.00              |                    |
|                                  | 75              | LOW       | Q16        | 21.65      | 21.57  | 21.45  | 22.00              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 21.24  | 21.42  | 21.34              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.31  | 21.64  | 21.36              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 21.15      | 21.40  | 21.56  | 22.00              |                    |
| 36                               |                 | LOW       | 64QAM      | 20.45      | 20.57  | 20.62  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.54      | 20.33  | 20.47  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.58      | 20.35  | 20.41  | 21.00              |                    |
| 75                               |                 | LOW       | 64QAM      | 20.71      | 20.63  | 20.48  | 21.00              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                               |                 | 1         | LOW        | QPSK       | 23.19  | 23.26  | 23.18              | 24.00              |
|                                  | MID             |           | QPSK       | 23.41      | 23.47  | 23.41  | 24.00              |                    |
|                                  | HIGH            |           | QPSK       | 23.14      | 23.24  | 23.15  | 24.00              |                    |
|                                  | 50              | LOW       | QPSK       | 22.63      | 22.46  | 22.55  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.65      | 22.36  | 22.37  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.32      | 22.38  | 22.37  | 23.00              |                    |
|                                  | 100             | LOW       | QPSK       | 22.35      | 22.37  | 22.38  | 23.00              |                    |
|                                  | 20              | 1         | LOW        | Q16        | 22.43  | 22.39  | 22.42              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.35  | 22.26  | 22.39              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.48      | 22.49  | 22.31  | 23.00              |                    |
| 50                               |                 | LOW       | Q16        | 21.42      | 21.40  | 21.50  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.45      | 21.26  | 21.50  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.30      | 21.42  | 21.54  | 22.00              |                    |
| 100                              |                 | LOW       | Q16        | 21.60      | 21.46  | 21.43  | 22.00              |                    |
| 20                               |                 | 1         | LOW        | 64QAM      | 21.27  | 21.32  | 21.47              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.46  | 21.51  | 21.40              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.14      | 21.48  | 21.50  | 22.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 20.30      | 20.44  | 20.54  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.44      | 20.27  | 20.57  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.54      | 20.24  | 20.29  | 21.00              |                    |
|                                  | 100             | LOW       | 64QAM      | 20.60      | 20.56  | 20.39  | 21.00              |                    |

| LTE B66-State1&3&5 -Ant.3 (ENDC) |         |           |            |        |        |        |                    |       |       |
|----------------------------------|---------|-----------|------------|--------|--------|--------|--------------------|-------|-------|
| Bandwidth (MHz)                  | RB Size | RB offset | Modulation | 131979 | 132322 | 132665 | Tune-up power(dBm) |       |       |
| 1.4                              | 1       | LOW       | QPSK       | 17.26  | 17.25  | 17.21  | 17.50              |       |       |
|                                  |         | MID       | QPSK       | 17.43  | 17.30  | 17.31  | 17.50              |       |       |
|                                  |         | HIGH      | QPSK       | 17.13  | 17.24  | 17.39  | 17.50              |       |       |
|                                  | 3       | LOW       | QPSK       | 17.17  | 17.28  | 17.43  | 17.50              |       |       |
|                                  |         | MID       | QPSK       | 17.24  | 17.21  | 17.30  | 17.50              |       |       |
|                                  |         | HIGH      | QPSK       | 17.12  | 17.13  | 17.45  | 17.50              |       |       |
|                                  | 6       | LOW       | QPSK       | 17.47  | 17.31  | 17.14  | 17.50              |       |       |
|                                  | 1.4     | 1         | LOW        | Q16    | 17.34  | 17.40  | 17.37              | 17.50 |       |
|                                  |         |           | MID        | Q16    | 17.29  | 17.23  | 17.33              | 17.50 |       |
| HIGH                             |         |           | Q16        | 17.30  | 17.36  | 17.20  | 17.50              |       |       |
| 3                                |         | LOW       | Q16        | 17.29  | 17.24  | 17.42  | 17.50              |       |       |
|                                  |         | MID       | Q16        | 17.38  | 17.24  | 17.43  | 17.50              |       |       |
|                                  |         | HIGH      | Q16        | 17.38  | 17.15  | 17.30  | 17.50              |       |       |
| 6                                |         | LOW       | Q16        | 17.39  | 17.30  | 17.25  | 17.50              |       |       |
| 1.4                              |         | 1         | LOW        | 64QAM  | 17.16  | 17.34  | 17.21              | 17.50 |       |
|                                  |         |           | MID        | 64QAM  | 17.28  | 17.44  | 17.30              | 17.50 |       |
|                                  | HIGH    |           | 64QAM      | 17.17  | 17.32  | 17.21  | 17.50              |       |       |
|                                  | 3       | LOW       | 64QAM      | 17.38  | 17.26  | 17.44  | 17.50              |       |       |
|                                  |         | MID       | 64QAM      | 17.19  | 17.08  | 17.28  | 17.50              |       |       |
|                                  |         | HIGH      | 64QAM      | 17.23  | 17.34  | 17.44  | 17.50              |       |       |
|                                  | 6       | LOW       | 64QAM      | 17.19  | 17.25  | 17.28  | 17.50              |       |       |
|                                  | 3       | 3         | 1          | LOW    | QPSK   | 17.23  | 17.16              | 17.29 | 17.50 |
|                                  |         |           |            | MID    | QPSK   | 17.41  | 17.27              | 17.40 | 17.50 |
| HIGH                             |         |           |            | QPSK   | 17.18  | 17.24  | 17.07              | 17.50 |       |
| 8                                |         |           | LOW        | QPSK   | 17.22  | 17.20  | 17.40              | 17.50 |       |
|                                  |         |           | MID        | QPSK   | 17.22  | 17.25  | 17.36              | 17.50 |       |
|                                  |         |           | HIGH       | QPSK   | 17.28  | 17.36  | 17.27              | 17.50 |       |
| 15                               |         |           | LOW        | QPSK   | 17.10  | 17.41  | 17.21              | 17.50 |       |
| 1                                |         |           | 1          | LOW    | Q16    | 17.21  | 17.31              | 17.40 | 17.50 |
|                                  |         |           |            | MID    | Q16    | 17.40  | 17.14              | 17.12 | 17.50 |
|                                  |         | HIGH      |            | Q16    | 17.11  | 17.10  | 17.23              | 17.50 |       |
|                                  |         | 8         | LOW        | Q16    | 17.30  | 17.29  | 17.19              | 17.50 |       |
|                                  |         |           | MID        | Q16    | 17.21  | 17.43  | 17.25              | 17.50 |       |
|                                  |         |           | HIGH       | Q16    | 17.18  | 17.04  | 17.43              | 17.50 |       |
| 15                               |         | LOW       | Q16        | 17.47  | 17.48  | 17.05  | 17.50              |       |       |
| 3                                |         | 1         | LOW        | 64QAM  | 17.10  | 17.22  | 16.97              | 17.50 |       |
|                                  | MID     |           | 64QAM      | 17.36  | 17.20  | 17.30  | 17.50              |       |       |
|                                  | HIGH    |           | 64QAM      | 17.16  | 17.33  | 17.09  | 17.50              |       |       |
|                                  | 8       | LOW       | 64QAM      | 17.05  | 17.18  | 17.09  | 17.50              |       |       |
|                                  |         | MID       | 64QAM      | 17.00  | 17.12  | 16.88  | 17.50              |       |       |
|                                  |         | HIGH      | 64QAM      | 16.88  | 16.83  | 17.09  | 17.50              |       |       |
|                                  | 15      | LOW       | 64QAM      | 16.87  | 17.24  | 17.05  | 17.50              |       |       |
|                                  | 5       | 5         | 1          | LOW    | QPSK   | 16.99  | 17.33              | 17.23 | 17.50 |
|                                  |         |           |            | MID    | QPSK   | 17.35  | 17.47              | 17.43 | 17.50 |
| HIGH                             |         |           |            | QPSK   | 17.23  | 17.17  | 17.09              | 17.50 |       |
| 12                               |         |           | LOW        | QPSK   | 17.19  | 17.33  | 17.28              | 17.50 |       |
|                                  |         |           | MID        | QPSK   | 17.19  | 17.11  | 17.38              | 17.50 |       |
|                                  |         |           | HIGH       | QPSK   | 17.29  | 17.26  | 17.48              | 17.50 |       |
| 25                               |         |           | LOW        | QPSK   | 17.25  | 17.24  | 17.43              | 17.50 |       |
| 1                                |         |           | 1          | LOW    | Q16    | 17.19  | 17.20              | 17.37 | 17.50 |
|                                  |         |           |            | MID    | Q16    | 17.46  | 17.27              | 17.10 | 17.50 |
|                                  |         | HIGH      |            | Q16    | 17.09  | 17.17  | 17.34              | 17.50 |       |
|                                  |         | 12        | LOW        | Q16    | 17.48  | 17.26  | 17.31              | 17.50 |       |
|                                  |         |           | MID        | Q16    | 17.39  | 17.49  | 17.01              | 17.50 |       |
|                                  |         |           | HIGH       | Q16    | 17.46  | 16.99  | 17.42              | 17.50 |       |
| 25                               |         | LOW       | Q16        | 17.32  | 17.50  | 17.14  | 17.50              |       |       |
| 5                                |         | 1         | LOW        | 64QAM  | 17.04  | 17.17  | 16.92              | 17.50 |       |
|                                  | MID     |           | 64QAM      | 17.10  | 17.37  | 17.39  | 17.50              |       |       |
|                                  | HIGH    |           | 64QAM      | 17.33  | 17.43  | 17.17  | 17.50              |       |       |
|                                  | 12      | LOW       | 64QAM      | 17.06  | 17.20  | 17.17  | 17.50              |       |       |
|                                  |         | MID       | 64QAM      | 16.82  | 17.25  | 16.98  | 17.50              |       |       |
|                                  |         | HIGH      | 64QAM      | 16.95  | 16.75  | 16.84  | 17.50              |       |       |
|                                  | 25      | LOW       | 64QAM      | 16.79  | 17.18  | 17.06  | 17.50              |       |       |

| LTE B66-State1&3&5 -Ant.3 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 17.09      | 17.35  | 17.37  | 17.50              |                    |
|                                  |                 | MID       | QPSK       | 17.40      | 17.23  | 17.35  | 17.50              |                    |
|                                  |                 | HIGH      | QPSK       | 17.21      | 17.21  | 17.16  | 17.50              |                    |
|                                  | 25              | LOW       | QPSK       | 17.29      | 17.37  | 17.36  | 17.50              |                    |
|                                  |                 | MID       | QPSK       | 17.17      | 17.10  | 17.38  | 17.50              |                    |
|                                  |                 | HIGH      | QPSK       | 17.06      | 17.21  | 17.32  | 17.50              |                    |
|                                  | 50              | LOW       | QPSK       | 17.22      | 17.39  | 17.44  | 17.50              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 17.41  | 17.29  | 17.38              | 17.50              |
|                                  |                 |           | MID        | Q16        | 17.38  | 17.15  | 17.20              | 17.50              |
| HIGH                             |                 |           | Q16        | 17.09      | 17.09  | 17.40  | 17.50              |                    |
| 25                               |                 | LOW       | Q16        | 17.38      | 17.34  | 17.11  | 17.50              |                    |
|                                  |                 | MID       | Q16        | 17.41      | 17.25  | 16.99  | 17.50              |                    |
|                                  |                 | HIGH      | Q16        | 17.45      | 17.09  | 17.34  | 17.50              |                    |
| 50                               |                 | LOW       | Q16        | 17.49      | 17.47  | 17.16  | 17.50              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 16.93  | 17.00  | 17.13              | 17.50              |
|                                  |                 |           | MID        | 64QAM      | 17.28  | 17.09  | 17.18              | 17.50              |
|                                  | HIGH            |           | 64QAM      | 17.35      | 17.25  | 17.06  | 17.50              |                    |
|                                  | 25              | LOW       | 64QAM      | 16.95      | 17.02  | 17.34  | 17.50              |                    |
|                                  |                 | MID       | 64QAM      | 16.96      | 17.14  | 16.90  | 17.50              |                    |
|                                  |                 | HIGH      | 64QAM      | 17.09      | 17.00  | 16.82  | 17.50              |                    |
|                                  | 50              | LOW       | 64QAM      | 16.88      | 17.25  | 17.10  | 17.50              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 17.22  | 17.15  | 17.36              | 17.50              |
| MID                              |                 |           | QPSK       | 17.34      | 17.37  | 17.36  | 17.50              |                    |
| HIGH                             |                 |           | QPSK       | 17.38      | 17.22  | 17.10  | 17.50              |                    |
| 36                               |                 | LOW       | QPSK       | 17.17      | 17.36  | 17.26  | 17.50              |                    |
|                                  |                 | MID       | QPSK       | 17.08      | 17.19  | 17.36  | 17.50              |                    |
|                                  |                 | HIGH      | QPSK       | 17.17      | 17.41  | 17.44  | 17.50              |                    |
| 75                               |                 | LOW       | QPSK       | 17.13      | 17.15  | 17.25  | 17.50              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 17.29  | 17.34  | 17.26              | 17.50              |
|                                  |                 |           | MID        | Q16        | 17.34  | 17.25  | 17.18              | 17.50              |
|                                  | HIGH            |           | Q16        | 17.18      | 16.94  | 17.36  | 17.50              |                    |
|                                  | 36              | LOW       | Q16        | 17.50      | 17.31  | 17.27  | 17.50              |                    |
|                                  |                 | MID       | Q16        | 17.40      | 17.45  | 17.09  | 17.50              |                    |
|                                  |                 | HIGH      | Q16        | 17.30      | 17.02  | 17.28  | 17.50              |                    |
|                                  | 75              | LOW       | Q16        | 17.38      | 17.33  | 17.11  | 17.50              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 16.83  | 17.03  | 17.10              | 17.50              |
|                                  |                 |           | MID        | 64QAM      | 17.35  | 17.32  | 17.18              | 17.50              |
| HIGH                             |                 |           | 64QAM      | 17.16      | 17.43  | 17.14  | 17.50              |                    |
| 36                               |                 | LOW       | 64QAM      | 16.95      | 17.03  | 17.24  | 17.50              |                    |
|                                  |                 | MID       | 64QAM      | 16.89      | 17.17  | 17.03  | 17.50              |                    |
|                                  |                 | HIGH      | 64QAM      | 16.86      | 16.72  | 16.83  | 17.50              |                    |
| 75                               |                 | LOW       | 64QAM      | 16.99      | 17.35  | 16.96  | 17.50              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                               |                 | 1         | LOW        | QPSK       | 17.09  | 17.23  | 17.29              | 17.50              |
|                                  | MID             |           | QPSK       | 17.39      | 17.44  | 17.32  | 17.50              |                    |
|                                  | HIGH            |           | QPSK       | 17.30      | 17.19  | 17.21  | 17.50              |                    |
|                                  | 50              | LOW       | QPSK       | 17.25      | 17.41  | 17.31  | 17.50              |                    |
|                                  |                 | MID       | QPSK       | 17.12      | 17.14  | 17.40  | 17.50              |                    |
|                                  |                 | HIGH      | QPSK       | 17.20      | 17.26  | 17.36  | 17.50              |                    |
|                                  | 100             | LOW       | QPSK       | 17.20      | 17.30  | 17.30  | 17.50              |                    |
|                                  | 20              | 1         | LOW        | Q16        | 17.26  | 17.28  | 17.27              | 17.50              |
|                                  |                 |           | MID        | Q16        | 17.41  | 17.25  | 17.10              | 17.50              |
| HIGH                             |                 |           | Q16        | 17.10      | 17.09  | 17.26  | 17.50              |                    |
| 50                               |                 | LOW       | Q16        | 17.37      | 17.21  | 17.23  | 17.50              |                    |
|                                  |                 | MID       | Q16        | 17.28      | 17.40  | 17.12  | 17.50              |                    |
|                                  |                 | HIGH      | Q16        | 17.31      | 17.11  | 17.38  | 17.50              |                    |
| 100                              |                 | LOW       | Q16        | 17.34      | 17.40  | 17.07  | 17.50              |                    |
| 20                               |                 | 1         | LOW        | 64QAM      | 16.95  | 17.12  | 17.02              | 17.50              |
|                                  |                 |           | MID        | 64QAM      | 17.24  | 17.24  | 17.30              | 17.50              |
|                                  | HIGH            |           | 64QAM      | 17.20      | 17.32  | 17.02  | 17.50              |                    |
|                                  | 50              | LOW       | 64QAM      | 17.00      | 17.07  | 17.21  | 17.50              |                    |
|                                  |                 | MID       | 64QAM      | 16.95      | 17.15  | 16.93  | 17.50              |                    |
|                                  |                 | HIGH      | 64QAM      | 16.94      | 16.87  | 16.94  | 17.50              |                    |
|                                  | 100             | LOW       | 64QAM      | 16.93      | 17.26  | 17.11  | 17.50              |                    |

| LTE B66-State2&4&6 -Ant.3 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 23.33      | 23.40  | 23.27  | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.38      | 23.42  | 23.36  | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.27      | 23.37  | 23.49  | 24.00              |                    |
|                                  | 3               | LOW       | QPSK       | 23.19      | 23.38  | 23.52  | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.50      | 23.51  | 23.28  | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.31      | 23.54  | 23.30  | 24.00              |                    |
|                                  | 6               | LOW       | QPSK       | 22.27      | 22.40  | 22.60  | 23.00              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 22.43  | 22.45  | 22.26              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.52  | 22.29  | 22.30              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.59      | 22.36  | 22.50  | 23.00              |                    |
| 3                                |                 | LOW       | Q16        | 22.28      | 22.32  | 22.30  | 23.00              |                    |
|                                  |                 | MID       | Q16        | 22.16      | 22.17  | 22.12  | 23.00              |                    |
|                                  |                 | HIGH      | Q16        | 22.46      | 22.40  | 22.46  | 23.00              |                    |
| 6                                |                 | LOW       | Q16        | 21.19      | 21.32  | 21.25  | 22.00              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 21.59  | 21.42  | 21.45              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.45  | 21.60  | 21.47              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.33      | 21.48  | 21.24  | 22.00              |                    |
|                                  | 3               | LOW       | 64QAM      | 21.29      | 21.30  | 21.48  | 22.00              |                    |
|                                  |                 | MID       | 64QAM      | 21.34      | 21.15  | 21.50  | 22.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 21.29      | 21.34  | 21.48  | 22.00              |                    |
|                                  | 6               | LOW       | 64QAM      | 20.16      | 20.32  | 20.36  | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 23.11  | 23.14  | 23.14              | 24.00              |
| MID                              |                 |           | QPSK       | 23.38      | 23.43  | 23.38  | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 23.21      | 23.16  | 23.21  | 24.00              |                    |
| 8                                |                 | LOW       | QPSK       | 22.77      | 22.47  | 22.65  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.72      | 22.41  | 22.42  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.35      | 22.23  | 22.30  | 23.00              |                    |
| 15                               |                 | LOW       | QPSK       | 22.26      | 22.28  | 22.52  | 23.00              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 22.51  | 22.45  | 22.30              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.31  | 22.33  | 22.54              | 23.00              |
|                                  | HIGH            |           | Q16        | 22.56      | 22.58  | 22.16  | 23.00              |                    |
|                                  | 8               | LOW       | Q16        | 21.55      | 21.39  | 21.64  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.53      | 21.38  | 21.55  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.44      | 21.35  | 21.68  | 22.00              |                    |
|                                  | 15              | LOW       | Q16        | 21.55      | 21.57  | 21.57  | 22.00              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 21.21  | 21.35  | 21.51              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.45  | 21.48  | 21.43              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 21.24      | 21.56  | 21.50  | 22.00              |                    |
| 8                                |                 | LOW       | 64QAM      | 20.45      | 20.32  | 20.41  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.41      | 20.13  | 20.44  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.66      | 20.14  | 20.22  | 21.00              |                    |
| 15                               |                 | LOW       | 64QAM      | 20.69      | 20.67  | 20.41  | 21.00              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 23.05  | 23.13  | 23.13              | 24.00              |
|                                  | MID             |           | QPSK       | 23.29      | 23.49  | 23.39  | 24.00              |                    |
|                                  | HIGH            |           | QPSK       | 23.11      | 23.28  | 23.30  | 24.00              |                    |
|                                  | 12              | LOW       | QPSK       | 22.54      | 22.61  | 22.57  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.57      | 22.36  | 22.30  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.20      | 22.39  | 22.33  | 23.00              |                    |
|                                  | 25              | LOW       | QPSK       | 22.42      | 22.32  | 22.45  | 23.00              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 22.39  | 22.48  | 22.34              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.24  | 22.27  | 22.43              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.54      | 22.64  | 22.46  | 23.00              |                    |
| 12                               |                 | LOW       | Q16        | 21.46      | 21.52  | 21.50  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.53      | 21.27  | 21.55  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.39      | 21.38  | 21.61  | 22.00              |                    |
| 25                               |                 | LOW       | Q16        | 21.75      | 21.39  | 21.47  | 22.00              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 21.32  | 21.17  | 21.44              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.38  | 21.62  | 21.25              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.23      | 21.54  | 21.51  | 22.00              |                    |
|                                  | 12              | LOW       | 64QAM      | 20.28      | 20.43  | 20.67  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.37      | 20.38  | 20.48  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.39      | 20.39  | 20.24  | 21.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 20.74      | 20.47  | 20.33  | 21.00              |                    |

| LTE B66-State2&4&6 -Ant.3 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 23.07      | 23.36  | 23.20  | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 23.36      | 23.57  | 23.41  | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 23.18      | 23.26  | 23.05  | 24.00              |                    |
|                                  | 25              | LOW       | QPSK       | 22.74      | 22.44  | 22.50  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.51      | 22.32  | 22.39  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.46      | 22.23  | 22.51  | 23.00              |                    |
|                                  | 50              | LOW       | QPSK       | 22.23      | 22.37  | 22.35  | 23.00              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 22.58  | 22.45  | 22.48              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.27  | 22.40  | 22.25              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.39      | 22.34  | 22.17  | 23.00              |                    |
| 25                               |                 | LOW       | Q16        | 21.40      | 21.40  | 21.46  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.55      | 21.21  | 21.60  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.29      | 21.30  | 21.65  | 22.00              |                    |
| 50                               |                 | LOW       | Q16        | 21.49      | 21.48  | 21.58  | 22.00              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 21.30  | 21.47  | 21.50              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.47  | 21.48  | 21.28              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.18      | 21.53  | 21.58  | 22.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 20.17      | 20.35  | 20.45  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.41      | 20.17  | 20.46  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.67      | 20.10  | 20.33  | 21.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 20.65      | 20.46  | 20.27  | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 23.28  | 23.18  | 23.12              | 24.00              |
| MID                              |                 |           | QPSK       | 23.35      | 23.43  | 23.55  | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 23.09      | 23.11  | 23.12  | 24.00              |                    |
| 36                               |                 | LOW       | QPSK       | 22.50      | 22.33  | 22.64  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.80      | 22.28  | 22.37  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.28      | 22.51  | 22.45  | 23.00              |                    |
| 75                               |                 | LOW       | QPSK       | 22.43      | 22.46  | 22.50  | 23.00              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 22.57  | 22.33  | 22.31              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.41  | 22.35  | 22.31              | 23.00              |
|                                  | HIGH            |           | Q16        | 22.33      | 22.43  | 22.28  | 23.00              |                    |
|                                  | 36              | LOW       | Q16        | 21.52      | 21.26  | 21.62  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.53      | 21.24  | 21.61  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.33      | 21.43  | 21.64  | 22.00              |                    |
|                                  | 75              | LOW       | Q16        | 21.65      | 21.57  | 21.45  | 22.00              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 21.24  | 21.42  | 21.34              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.31  | 21.64  | 21.36              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 21.15      | 21.40  | 21.56  | 22.00              |                    |
| 36                               |                 | LOW       | 64QAM      | 20.45      | 20.57  | 20.62  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.54      | 20.33  | 20.47  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.58      | 20.35  | 20.41  | 21.00              |                    |
| 75                               |                 | LOW       | 64QAM      | 20.71      | 20.63  | 20.48  | 21.00              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                               |                 | 1         | LOW        | QPSK       | 23.19  | 23.26  | 23.18              | 24.00              |
|                                  | MID             |           | QPSK       | 23.41      | 23.47  | 23.41  | 24.00              |                    |
|                                  | HIGH            |           | QPSK       | 23.14      | 23.24  | 23.15  | 24.00              |                    |
|                                  | 50              | LOW       | QPSK       | 22.63      | 22.46  | 22.55  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 22.65      | 22.36  | 22.37  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.32      | 22.38  | 22.37  | 23.00              |                    |
|                                  | 100             | LOW       | QPSK       | 22.35      | 22.37  | 22.38  | 23.00              |                    |
|                                  | 20              | 1         | LOW        | Q16        | 22.43  | 22.39  | 22.42              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.35  | 22.26  | 22.39              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.48      | 22.49  | 22.31  | 23.00              |                    |
| 50                               |                 | LOW       | Q16        | 21.42      | 21.40  | 21.50  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 21.45      | 21.26  | 21.50  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.30      | 21.42  | 21.54  | 22.00              |                    |
| 100                              |                 | LOW       | Q16        | 21.60      | 21.46  | 21.43  | 22.00              |                    |
| 20                               |                 | 1         | LOW        | 64QAM      | 21.27  | 21.32  | 21.47              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 21.46  | 21.51  | 21.40              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 21.14      | 21.48  | 21.50  | 22.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 20.30      | 20.44  | 20.54  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.44      | 20.27  | 20.57  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.54      | 20.24  | 20.29  | 21.00              |                    |
|                                  | 100             | LOW       | 64QAM      | 20.60      | 20.56  | 20.39  | 21.00              |                    |

### 8.3.5 LTE Band2 Output Power

BL-SZ2320168-701

| LTE B66-Full Power -Ant.4 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 22.81      | 22.80  | 22.66  | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 22.85      | 22.82  | 22.81  | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.80      | 22.81  | 22.67  | 24.00              |                    |
|                                  | 3               | LOW       | QPSK       | 22.74      | 22.79  | 22.80  | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 22.81      | 22.88  | 22.73  | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.69      | 22.72  | 22.84  | 24.00              |                    |
|                                  | 6               | LOW       | QPSK       | 21.67      | 21.79  | 21.64  | 23.00              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 21.96  | 21.87  | 21.90              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.04  | 21.75  | 21.88              | 23.00              |
| HIGH                             |                 |           | Q16        | 21.73      | 21.68  | 21.76  | 23.00              |                    |
| 3                                |                 | LOW       | Q16        | 21.63      | 21.68  | 21.62  | 23.00              |                    |
|                                  |                 | MID       | Q16        | 21.85      | 21.50  | 21.85  | 23.00              |                    |
|                                  |                 | HIGH      | Q16        | 21.86      | 21.60  | 21.76  | 23.00              |                    |
| 6                                |                 | LOW       | Q16        | 20.92      | 20.75  | 20.77  | 22.00              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 20.58  | 20.78  | 20.62              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 20.69  | 20.69  | 20.87              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 20.90      | 20.98  | 20.62  | 22.00              |                    |
|                                  | 3               | LOW       | 64QAM      | 20.83      | 20.70  | 20.67  | 22.00              |                    |
|                                  |                 | MID       | 64QAM      | 20.56      | 20.86  | 20.57  | 22.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.77      | 20.63  | 20.71  | 22.00              |                    |
|                                  | 6               | LOW       | 64QAM      | 19.68      | 19.66  | 19.52  | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 22.60  | 22.84  | 22.78              | 24.00              |
| MID                              |                 |           | QPSK       | 22.93      | 22.81  | 22.81  | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 22.73      | 22.83  | 22.93  | 24.00              |                    |
| 8                                |                 | LOW       | QPSK       | 21.74      | 21.77  | 22.02  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 21.72      | 21.80  | 22.06  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 21.73      | 21.84  | 21.85  | 23.00              |                    |
| 15                               |                 | LOW       | QPSK       | 21.92      | 21.81  | 21.90  | 23.00              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 21.69  | 21.74  | 21.79              | 23.00              |
|                                  |                 |           | MID        | Q16        | 21.99  | 21.84  | 21.93              | 23.00              |
|                                  | HIGH            |           | Q16        | 21.99      | 21.66  | 22.03  | 23.00              |                    |
|                                  | 8               | LOW       | Q16        | 20.62      | 20.88  | 20.82  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 20.88      | 20.85  | 20.78  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 20.75      | 20.73  | 20.91  | 22.00              |                    |
|                                  | 15              | LOW       | Q16        | 20.78      | 20.79  | 20.75  | 22.00              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 20.79  | 20.74  | 20.64              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 20.91  | 20.68  | 20.78              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 20.77      | 20.88  | 20.87  | 22.00              |                    |
| 8                                |                 | LOW       | 64QAM      | 19.69      | 19.75  | 19.95  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 19.89      | 19.83  | 19.71  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.86      | 19.89  | 19.68  | 21.00              |                    |
| 15                               |                 | LOW       | 64QAM      | 19.79      | 19.85  | 19.73  | 21.00              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 22.77  | 22.71  | 22.79              | 24.00              |
|                                  | MID             |           | QPSK       | 22.85      | 22.91  | 23.05  | 24.00              |                    |
|                                  | HIGH            |           | QPSK       | 22.88      | 22.63  | 22.94  | 24.00              |                    |
|                                  | 12              | LOW       | QPSK       | 21.70      | 21.75  | 22.03  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 21.77      | 21.69  | 22.03  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 21.72      | 21.71  | 21.71  | 23.00              |                    |
|                                  | 25              | LOW       | QPSK       | 21.66      | 21.79  | 21.89  | 23.00              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 21.90  | 21.72  | 21.68              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.04  | 21.97  | 21.87              | 23.00              |
| HIGH                             |                 |           | Q16        | 22.00      | 21.88  | 21.77  | 23.00              |                    |
| 12                               |                 | LOW       | Q16        | 20.84      | 20.76  | 20.79  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 20.77      | 20.87  | 20.89  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 20.83      | 20.90  | 20.68  | 22.00              |                    |
| 25                               |                 | LOW       | Q16        | 20.64      | 20.80  | 20.81  | 22.00              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 20.67  | 20.73  | 20.67              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 20.93  | 20.73  | 20.80              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 20.71      | 20.76  | 20.94  | 22.00              |                    |
|                                  | 12              | LOW       | 64QAM      | 19.65      | 19.73  | 19.86  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 19.68      | 19.74  | 19.91  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.77      | 19.81  | 19.86  | 21.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 19.83      | 19.73  | 19.67  | 21.00              |                    |

| LTE B66-Full Power -Ant.4 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 22.75      | 22.77  | 22.75  | 24.00              |                    |
|                                  |                 | MID       | QPSK       | 22.90      | 22.91  | 22.75  | 24.00              |                    |
|                                  |                 | HIGH      | QPSK       | 22.76      | 22.84  | 22.73  | 24.00              |                    |
|                                  | 25              | LOW       | QPSK       | 21.82      | 21.92  | 21.82  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 21.82      | 21.69  | 21.87  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 21.88      | 21.64  | 21.93  | 23.00              |                    |
|                                  | 50              | LOW       | QPSK       | 21.91      | 21.69  | 22.02  | 23.00              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 21.80  | 21.66  | 21.68              | 23.00              |
|                                  |                 |           | MID        | Q16        | 21.87  | 21.94  | 22.08              | 23.00              |
| HIGH                             |                 |           | Q16        | 21.78      | 21.74  | 21.88  | 23.00              |                    |
| 25                               |                 | LOW       | Q16        | 20.77      | 20.76  | 20.77  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 20.95      | 20.87  | 20.96  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 20.92      | 20.85  | 20.91  | 22.00              |                    |
| 50                               |                 | LOW       | Q16        | 20.88      | 20.82  | 20.90  | 22.00              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 20.70  | 20.60  | 20.82              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 20.86  | 20.69  | 21.07              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 20.76      | 20.78  | 20.67  | 22.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 19.67      | 19.76  | 19.96  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 19.91      | 19.69  | 19.77  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.69      | 19.64  | 19.81  | 21.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 19.66      | 19.61  | 19.85  | 21.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 22.90  | 22.84  | 22.60              | 24.00              |
| MID                              |                 |           | QPSK       | 22.98      | 22.84  | 23.05  | 24.00              |                    |
| HIGH                             |                 |           | QPSK       | 22.65      | 22.74  | 22.91  | 24.00              |                    |
| 36                               |                 | LOW       | QPSK       | 21.63      | 21.92  | 21.91  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 21.73      | 21.70  | 21.94  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 21.87      | 21.88  | 21.93  | 23.00              |                    |
| 75                               |                 | LOW       | QPSK       | 21.78      | 21.92  | 22.02  | 23.00              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 21.72  | 21.80  | 21.81              | 23.00              |
|                                  |                 |           | MID        | Q16        | 22.06  | 21.76  | 21.97              | 23.00              |
|                                  | HIGH            |           | Q16        | 21.97      | 21.67  | 21.80  | 23.00              |                    |
|                                  | 36              | LOW       | Q16        | 20.63      | 20.83  | 20.80  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 20.94      | 20.91  | 20.91  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 20.94      | 20.65  | 20.92  | 22.00              |                    |
|                                  | 75              | LOW       | Q16        | 20.79      | 20.82  | 20.92  | 22.00              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 20.71  | 20.74  | 20.91              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 20.87  | 20.84  | 20.96              | 22.00              |
| HIGH                             |                 |           | 64QAM      | 20.70      | 20.88  | 20.89  | 22.00              |                    |
| 36                               |                 | LOW       | 64QAM      | 19.78      | 19.71  | 19.80  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 19.74      | 19.64  | 19.73  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.57      | 19.80  | 19.69  | 21.00              |                    |
| 75                               |                 | LOW       | 64QAM      | 19.59      | 19.75  | 19.86  | 21.00              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                               |                 | 1         | LOW        | QPSK       | 22.75  | 22.71  | 22.75              | 24.00              |
|                                  | MID             |           | QPSK       | 22.89      | 22.86  | 22.90  | 24.00              |                    |
|                                  | HIGH            |           | QPSK       | 22.79      | 22.76  | 22.82  | 24.00              |                    |
|                                  | 50              | LOW       | QPSK       | 21.74      | 21.84  | 21.92  | 23.00              |                    |
|                                  |                 | MID       | QPSK       | 21.86      | 21.82  | 21.92  | 23.00              |                    |
|                                  |                 | HIGH      | QPSK       | 21.85      | 21.78  | 21.86  | 23.00              |                    |
|                                  | 100             | LOW       | QPSK       | 21.80      | 21.82  | 21.90  | 23.00              |                    |
|                                  | 20              | 1         | LOW        | Q16        | 21.83  | 21.76  | 21.83              | 23.00              |
|                                  |                 |           | MID        | Q16        | 21.96  | 21.89  | 21.95              | 23.00              |
| HIGH                             |                 |           | Q16        | 21.86      | 21.80  | 21.89  | 23.00              |                    |
| 50                               |                 | LOW       | Q16        | 20.71      | 20.74  | 20.87  | 22.00              |                    |
|                                  |                 | MID       | Q16        | 20.82      | 20.77  | 20.84  | 22.00              |                    |
|                                  |                 | HIGH      | Q16        | 20.79      | 20.79  | 20.80  | 22.00              |                    |
| 100                              |                 | LOW       | Q16        | 20.77      | 20.78  | 20.86  | 22.00              |                    |
| 20                               |                 | 1         | LOW        | 64QAM      | 20.79  | 20.68  | 20.78              | 22.00              |
|                                  |                 |           | MID        | 64QAM      | 20.90  | 20.83  | 20.92              | 22.00              |
|                                  | HIGH            |           | 64QAM      | 20.78      | 20.76  | 20.81  | 22.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 19.68      | 19.76  | 19.89  | 21.00              |                    |
|                                  |                 | MID       | 64QAM      | 19.76      | 19.72  | 19.82  | 21.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.72      | 19.75  | 19.77  | 21.00              |                    |
|                                  | 100             | LOW       | 64QAM      | 19.70      | 19.71  | 19.80  | 21.00              |                    |

| LTE B66-State1&3&5 -Ant.4 (ENDC) |         |           |            |        |        |        |                    |       |       |
|----------------------------------|---------|-----------|------------|--------|--------|--------|--------------------|-------|-------|
| Bandwidth (MHz)                  | RB Size | RB offset | Modulation | 131979 | 132322 | 132665 | Tune-up power(dBm) |       |       |
| 1.4                              | 1       | LOW       | QPSK       | 17.43  | 17.32  | 17.22  | 18.00              |       |       |
|                                  |         | MID       | QPSK       | 17.41  | 17.36  | 17.32  | 18.00              |       |       |
|                                  |         | HIGH      | QPSK       | 17.35  | 17.33  | 17.36  | 18.00              |       |       |
|                                  | 3       | LOW       | QPSK       | 17.15  | 17.34  | 17.39  | 18.00              |       |       |
|                                  |         | MID       | QPSK       | 17.18  | 17.47  | 17.18  | 18.00              |       |       |
|                                  |         | HIGH      | QPSK       | 17.28  | 17.30  | 17.33  | 18.00              |       |       |
|                                  | 6       | LOW       | QPSK       | 17.41  | 17.34  | 17.39  | 18.00              |       |       |
|                                  | 1.4     | 1         | LOW        | Q16    | 17.27  | 17.41  | 17.28              | 18.00 |       |
|                                  |         |           | MID        | Q16    | 17.32  | 17.56  | 17.60              | 18.00 |       |
| HIGH                             |         |           | Q16        | 17.44  | 17.39  | 17.49  | 18.00              |       |       |
| 3                                |         | LOW       | Q16        | 17.36  | 17.25  | 17.36  | 18.00              |       |       |
|                                  |         | MID       | Q16        | 17.37  | 17.33  | 17.28  | 18.00              |       |       |
|                                  |         | HIGH      | Q16        | 17.42  | 17.19  | 17.20  | 18.00              |       |       |
| 6                                |         | LOW       | Q16        | 17.35  | 17.35  | 17.25  | 18.00              |       |       |
| 1.4                              |         | 1         | LOW        | 64QAM  | 17.21  | 17.29  | 17.17              | 18.00 |       |
|                                  |         |           | MID        | 64QAM  | 17.21  | 17.11  | 17.35              | 18.00 |       |
|                                  | HIGH    |           | 64QAM      | 17.35  | 17.23  | 17.17  | 18.00              |       |       |
|                                  | 3       | LOW       | 64QAM      | 17.30  | 17.35  | 17.26  | 18.00              |       |       |
|                                  |         | MID       | 64QAM      | 17.43  | 17.25  | 17.44  | 18.00              |       |       |
|                                  |         | HIGH      | 64QAM      | 17.55  | 17.27  | 17.54  | 18.00              |       |       |
|                                  | 6       | LOW       | 64QAM      | 17.42  | 17.38  | 17.22  | 18.00              |       |       |
|                                  | 3       | 3         | 1          | LOW    | QPSK   | 17.29  | 17.18              | 17.03 | 18.00 |
|                                  |         |           |            | MID    | QPSK   | 17.62  | 17.27              | 17.33 | 18.00 |
| HIGH                             |         |           |            | QPSK   | 17.58  | 17.41  | 17.26              | 18.00 |       |
| 8                                |         |           | LOW        | QPSK   | 17.30  | 17.44  | 17.39              | 18.00 |       |
|                                  |         |           | MID        | QPSK   | 16.95  | 17.12  | 17.35              | 18.00 |       |
|                                  |         |           | HIGH       | QPSK   | 17.52  | 17.32  | 17.32              | 18.00 |       |
| 15                               |         |           | LOW        | QPSK   | 17.34  | 17.48  | 17.73              | 18.00 |       |
| 1                                |         |           | 1          | LOW    | Q16    | 17.44  | 17.28              | 17.47 | 18.00 |
|                                  |         |           |            | MID    | Q16    | 17.63  | 17.47              | 17.24 | 18.00 |
|                                  |         | HIGH      |            | Q16    | 17.47  | 17.22  | 17.17              | 18.00 |       |
|                                  |         | 8         | LOW        | Q16    | 17.36  | 17.26  | 17.15              | 18.00 |       |
|                                  |         |           | MID        | Q16    | 17.30  | 17.55  | 17.44              | 18.00 |       |
|                                  |         |           | HIGH       | Q16    | 17.23  | 17.31  | 17.12              | 18.00 |       |
| 15                               |         | LOW       | Q16        | 17.15  | 17.16  | 17.20  | 18.00              |       |       |
| 3                                |         | 1         | LOW        | 64QAM  | 17.52  | 17.53  | 17.40              | 18.00 |       |
|                                  | MID     |           | 64QAM      | 17.54  | 17.58  | 17.48  | 18.00              |       |       |
|                                  | HIGH    |           | 64QAM      | 17.54  | 17.37  | 17.40  | 18.00              |       |       |
|                                  | 8       | LOW       | 64QAM      | 17.67  | 17.39  | 17.33  | 18.00              |       |       |
|                                  |         | MID       | 64QAM      | 17.33  | 17.53  | 17.40  | 18.00              |       |       |
|                                  |         | HIGH      | 64QAM      | 17.38  | 17.42  | 17.50  | 18.00              |       |       |
|                                  | 15      | LOW       | 64QAM      | 17.53  | 17.47  | 17.53  | 18.00              |       |       |
|                                  | 5       | 5         | 1          | LOW    | QPSK   | 17.47  | 17.27              | 17.05 | 18.00 |
|                                  |         |           |            | MID    | QPSK   | 17.47  | 17.47              | 17.28 | 18.00 |
| HIGH                             |         |           |            | QPSK   | 17.51  | 17.47  | 17.35              | 18.00 |       |
| 12                               |         |           | LOW        | QPSK   | 17.27  | 17.15  | 17.30              | 18.00 |       |
|                                  |         |           | MID        | QPSK   | 17.21  | 17.17  | 17.21              | 18.00 |       |
|                                  |         |           | HIGH       | QPSK   | 17.27  | 17.31  | 17.30              | 18.00 |       |
| 25                               |         |           | LOW        | QPSK   | 17.48  | 17.46  | 17.67              | 18.00 |       |
| 1                                |         |           | 1          | LOW    | Q16    | 17.71  | 17.41              | 17.31 | 18.00 |
|                                  |         |           |            | MID    | Q16    | 17.51  | 17.38              | 17.26 | 18.00 |
|                                  |         | HIGH      |            | Q16    | 17.71  | 17.44  | 17.21              | 18.00 |       |
|                                  |         | 12        | LOW        | Q16    | 17.61  | 17.41  | 17.32              | 18.00 |       |
|                                  |         |           | MID        | Q16    | 17.51  | 17.43  | 17.42              | 18.00 |       |
|                                  |         |           | HIGH       | Q16    | 17.30  | 17.47  | 17.29              | 18.00 |       |
| 25                               |         | LOW       | Q16        | 17.18  | 17.18  | 17.43  | 18.00              |       |       |
| 5                                |         | 1         | LOW        | 64QAM  | 17.26  | 17.27  | 17.33              | 18.00 |       |
|                                  | MID     |           | 64QAM      | 17.34  | 17.43  | 17.61  | 18.00              |       |       |
|                                  | HIGH    |           | 64QAM      | 17.42  | 17.33  | 17.69  | 18.00              |       |       |
|                                  | 12      | LOW       | 64QAM      | 17.62  | 17.62  | 17.51  | 18.00              |       |       |
|                                  |         | MID       | 64QAM      | 17.35  | 17.59  | 17.40  | 18.00              |       |       |
|                                  |         | HIGH      | 64QAM      | 17.39  | 17.29  | 17.45  | 18.00              |       |       |
|                                  | 25      | LOW       | 64QAM      | 17.43  | 17.62  | 17.53  | 18.00              |       |       |



| LTE B66-State1&3&5 -Ant.4 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 17.44      | 17.12  | 17.31  | 18.00              |                    |
|                                  |                 | MID       | QPSK       | 17.52      | 17.41  | 17.40  | 18.00              |                    |
|                                  |                 | HIGH      | QPSK       | 17.40      | 17.23  | 17.26  | 18.00              |                    |
|                                  | 25              | LOW       | QPSK       | 17.15      | 17.36  | 17.43  | 18.00              |                    |
|                                  |                 | MID       | QPSK       | 17.20      | 17.05  | 17.27  | 18.00              |                    |
|                                  |                 | HIGH      | QPSK       | 17.30      | 17.20  | 17.48  | 18.00              |                    |
|                                  | 50              | LOW       | QPSK       | 17.36      | 17.42  | 17.46  | 18.00              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 17.61  | 17.50  | 17.37              | 18.00              |
|                                  |                 |           | MID        | Q16        | 17.34  | 17.23  | 17.15              | 18.00              |
| HIGH                             |                 |           | Q16        | 17.58      | 17.46  | 17.41  | 18.00              |                    |
| 25                               |                 | LOW       | Q16        | 17.55      | 17.25  | 17.32  | 18.00              |                    |
|                                  |                 | MID       | Q16        | 17.47      | 17.50  | 17.31  | 18.00              |                    |
|                                  |                 | HIGH      | Q16        | 17.33      | 17.43  | 17.24  | 18.00              |                    |
| 50                               |                 | LOW       | Q16        | 17.15      | 17.17  | 17.24  | 18.00              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 17.27  | 17.46  | 17.18              | 18.00              |
|                                  |                 |           | MID        | 64QAM      | 17.35  | 17.50  | 17.42              | 18.00              |
|                                  | HIGH            |           | 64QAM      | 17.40      | 17.49  | 17.55  | 18.00              |                    |
|                                  | 25              | LOW       | 64QAM      | 17.47      | 17.34  | 17.33  | 18.00              |                    |
|                                  |                 | MID       | 64QAM      | 17.31      | 17.58  | 17.64  | 18.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 17.46      | 17.32  | 17.70  | 18.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 17.59      | 17.39  | 17.69  | 18.00              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 17.38  | 17.32  | 17.09              | 18.00              |
| MID                              |                 |           | QPSK       | 17.46      | 17.26  | 17.42  | 18.00              |                    |
| HIGH                             |                 |           | QPSK       | 17.53      | 17.35  | 17.37  | 18.00              |                    |
| 36                               |                 | LOW       | QPSK       | 17.26      | 17.14  | 17.37  | 18.00              |                    |
|                                  |                 | MID       | QPSK       | 17.11      | 17.23  | 17.35  | 18.00              |                    |
|                                  |                 | HIGH      | QPSK       | 17.52      | 17.25  | 17.31  | 18.00              |                    |
| 75                               |                 | LOW       | QPSK       | 17.30      | 17.49  | 17.69  | 18.00              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 17.59  | 17.43  | 17.36              | 18.00              |
|                                  |                 |           | MID        | Q16        | 17.42  | 17.36  | 17.29              | 18.00              |
|                                  | HIGH            |           | Q16        | 17.48      | 17.35  | 17.30  | 18.00              |                    |
|                                  | 36              | LOW       | Q16        | 17.55      | 17.28  | 17.31  | 18.00              |                    |
|                                  |                 | MID       | Q16        | 17.51      | 17.68  | 17.31  | 18.00              |                    |
|                                  |                 | HIGH      | Q16        | 17.19      | 17.58  | 17.14  | 18.00              |                    |
|                                  | 75              | LOW       | Q16        | 17.12      | 17.25  | 17.19  | 18.00              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 17.53  | 17.46  | 17.35              | 18.00              |
|                                  |                 |           | MID        | 64QAM      | 17.61  | 17.64  | 17.41              | 18.00              |
| HIGH                             |                 |           | 64QAM      | 17.44      | 17.28  | 17.60  | 18.00              |                    |
| 36                               |                 | LOW       | 64QAM      | 17.67      | 17.36  | 17.33  | 18.00              |                    |
|                                  |                 | MID       | 64QAM      | 17.34      | 17.75  | 17.62  | 18.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 17.31      | 17.50  | 17.64  | 18.00              |                    |
| 75                               |                 | LOW       | 64QAM      | 17.46      | 17.66  | 17.51  | 18.00              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                               |                 | 1         | LOW        | QPSK       | 17.38  | 17.26  | 17.16              | 18.00              |
|                                  | MID             |           | QPSK       | 17.35      | 17.49  | 17.35  | 18.00              |                    |
|                                  | HIGH            |           | QPSK       | 17.33      | 17.35  | 17.35  | 18.00              |                    |
|                                  | 50              | LOW       | QPSK       | 17.18      | 17.29  | 17.29  | 18.00              |                    |
|                                  |                 | MID       | QPSK       | 17.09      | 17.45  | 17.36  | 18.00              |                    |
|                                  |                 | HIGH      | QPSK       | 17.37      | 17.30  | 17.18  | 18.00              |                    |
|                                  | 100             | LOW       | QPSK       | 17.33      | 17.40  | 17.58  | 18.00              |                    |
|                                  | 20              | 1         | LOW        | Q16        | 17.58  | 17.40  | 17.42              | 18.00              |
|                                  |                 |           | MID        | Q16        | 17.49  | 17.34  | 17.20              | 18.00              |
| HIGH                             |                 |           | Q16        | 17.56      | 17.34  | 17.28  | 18.00              |                    |
| 50                               |                 | LOW       | Q16        | 17.49      | 17.38  | 17.26  | 18.00              |                    |
|                                  |                 | MID       | Q16        | 17.47      | 17.53  | 17.41  | 18.00              |                    |
|                                  |                 | HIGH      | Q16        | 17.25      | 17.45  | 17.23  | 18.00              |                    |
| 100                              |                 | LOW       | Q16        | 17.18      | 17.18  | 17.32  | 18.00              |                    |
| 20                               |                 | 1         | LOW        | 64QAM      | 17.41  | 17.40  | 17.30              | 18.00              |
|                                  |                 |           | MID        | 64QAM      | 17.48  | 17.55  | 17.51              | 18.00              |
|                                  | HIGH            |           | 64QAM      | 17.55      | 17.35  | 17.54  | 18.00              |                    |
|                                  | 50              | LOW       | 64QAM      | 17.56      | 17.47  | 17.42  | 18.00              |                    |
|                                  |                 | MID       | 64QAM      | 17.34      | 17.63  | 17.50  | 18.00              |                    |
|                                  |                 | HIGH      | 64QAM      | 17.32      | 17.41  | 17.55  | 18.00              |                    |
|                                  | 100             | LOW       | 64QAM      | 17.45      | 17.51  | 17.54  | 18.00              |                    |

| LTE B66-State2&4&6-Ant.4 (ENDC) |                 |           |            |            |        |        |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                             | 1               | LOW       | QPSK       | 14.19      | 14.32  | 14.21  | 15.00              |                    |
|                                 |                 | MID       | QPSK       | 14.41      | 14.38  | 14.52  | 15.00              |                    |
|                                 |                 | HIGH      | QPSK       | 14.16      | 14.28  | 14.20  | 15.00              |                    |
|                                 | 3               | LOW       | QPSK       | 14.45      | 14.32  | 14.45  | 15.00              |                    |
|                                 |                 | MID       | QPSK       | 14.29      | 14.13  | 14.41  | 15.00              |                    |
|                                 |                 | HIGH      | QPSK       | 14.36      | 14.31  | 14.38  | 15.00              |                    |
|                                 | 6               | LOW       | QPSK       | 14.31      | 14.33  | 14.51  | 15.00              |                    |
|                                 | 1.4             | 1         | LOW        | Q16        | 14.26  | 14.42  | 14.56              | 15.00              |
|                                 |                 |           | MID        | Q16        | 14.38  | 14.46  | 14.45              | 15.00              |
| HIGH                            |                 |           | Q16        | 14.35      | 14.32  | 14.45  | 15.00              |                    |
| 3                               |                 | LOW       | Q16        | 14.45      | 14.29  | 14.21  | 15.00              |                    |
|                                 |                 | MID       | Q16        | 14.43      | 14.15  | 14.34  | 15.00              |                    |
|                                 |                 | HIGH      | Q16        | 14.10      | 14.16  | 14.25  | 15.00              |                    |
| 6                               |                 | LOW       | Q16        | 14.32      | 14.35  | 14.44  | 15.00              |                    |
| 1.4                             |                 | 1         | LOW        | 64QAM      | 14.46  | 14.38  | 14.52              | 15.00              |
|                                 |                 |           | MID        | 64QAM      | 14.29  | 14.56  | 14.19              | 15.00              |
|                                 | HIGH            |           | 64QAM      | 14.52      | 14.54  | 14.51  | 15.00              |                    |
|                                 | 3               | LOW       | 64QAM      | 14.34      | 14.34  | 14.18  | 15.00              |                    |
|                                 |                 | MID       | 64QAM      | 14.36      | 14.34  | 14.26  | 15.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 14.44      | 14.38  | 14.18  | 15.00              |                    |
|                                 | 6               | LOW       | 64QAM      | 14.30      | 14.35  | 14.51  | 15.00              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                                 | 3               | 1         | LOW        | QPSK       | 14.23  | 14.40  | 14.25              | 15.00              |
| MID                             |                 |           | QPSK       | 14.35      | 14.21  | 14.54  | 15.00              |                    |
| HIGH                            |                 |           | QPSK       | 14.51      | 14.45  | 14.51  | 15.00              |                    |
| 8                               |                 | LOW       | QPSK       | 14.40      | 14.33  | 14.26  | 15.00              |                    |
|                                 |                 | MID       | QPSK       | 14.46      | 14.40  | 14.63  | 15.00              |                    |
|                                 |                 | HIGH      | QPSK       | 14.46      | 14.13  | 14.21  | 15.00              |                    |
| 15                              |                 | LOW       | QPSK       | 14.40      | 14.53  | 14.55  | 15.00              |                    |
| 3                               |                 | 1         | LOW        | Q16        | 14.29  | 14.29  | 14.35              | 15.00              |
|                                 |                 |           | MID        | Q16        | 14.39  | 14.25  | 14.43              | 15.00              |
|                                 | HIGH            |           | Q16        | 14.28      | 14.48  | 14.30  | 15.00              |                    |
|                                 | 8               | LOW       | Q16        | 14.21      | 14.41  | 14.46  | 15.00              |                    |
|                                 |                 | MID       | Q16        | 14.24      | 14.36  | 14.12  | 15.00              |                    |
|                                 |                 | HIGH      | Q16        | 14.35      | 14.60  | 14.06  | 15.00              |                    |
|                                 | 15              | LOW       | Q16        | 14.43      | 14.35  | 14.44  | 15.00              |                    |
|                                 | 3               | 1         | LOW        | 64QAM      | 14.23  | 14.25  | 14.08              | 15.00              |
|                                 |                 |           | MID        | 64QAM      | 14.19  | 14.49  | 14.41              | 15.00              |
| HIGH                            |                 |           | 64QAM      | 14.52      | 14.21  | 14.52  | 15.00              |                    |
| 8                               |                 | LOW       | 64QAM      | 14.26      | 14.06  | 13.96  | 15.00              |                    |
|                                 |                 | MID       | 64QAM      | 13.93      | 14.18  | 14.33  | 15.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 13.95      | 14.45  | 14.34  | 15.00              |                    |
| 15                              |                 | LOW       | 64QAM      | 13.99      | 14.19  | 14.15  | 15.00              |                    |
| Bandwidth (MHz)                 |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                               |                 | 1         | LOW        | QPSK       | 14.14  | 14.13  | 14.21              | 15.00              |
|                                 | MID             |           | QPSK       | 14.47      | 14.34  | 14.39  | 15.00              |                    |
|                                 | HIGH            |           | QPSK       | 14.41      | 14.39  | 14.46  | 15.00              |                    |
|                                 | 12              | LOW       | QPSK       | 14.32      | 14.42  | 14.35  | 15.00              |                    |
|                                 |                 | MID       | QPSK       | 14.53      | 14.54  | 14.56  | 15.00              |                    |
|                                 |                 | HIGH      | QPSK       | 14.37      | 14.21  | 14.28  | 15.00              |                    |
|                                 | 25              | LOW       | QPSK       | 14.59      | 14.47  | 14.70  | 15.00              |                    |
|                                 | 5               | 1         | LOW        | Q16        | 14.09  | 14.29  | 14.43              | 15.00              |
|                                 |                 |           | MID        | Q16        | 14.34  | 14.51  | 14.58              | 15.00              |
| HIGH                            |                 |           | Q16        | 14.30      | 14.51  | 14.33  | 15.00              |                    |
| 12                              |                 | LOW       | Q16        | 14.34      | 14.17  | 14.20  | 15.00              |                    |
|                                 |                 | MID       | Q16        | 14.44      | 14.42  | 14.30  | 15.00              |                    |
|                                 |                 | HIGH      | Q16        | 14.19      | 14.42  | 14.18  | 15.00              |                    |
| 25                              |                 | LOW       | Q16        | 14.32      | 14.59  | 14.61  | 15.00              |                    |
| 5                               |                 | 1         | LOW        | 64QAM      | 14.31  | 14.51  | 14.19              | 15.00              |
|                                 |                 |           | MID        | 64QAM      | 14.20  | 14.35  | 14.65              | 15.00              |
|                                 | HIGH            |           | 64QAM      | 14.28      | 14.24  | 14.36  | 15.00              |                    |
|                                 | 12              | LOW       | 64QAM      | 14.15      | 14.15  | 14.20  | 15.00              |                    |
|                                 |                 | MID       | 64QAM      | 13.96      | 14.17  | 14.08  | 15.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 14.07      | 14.42  | 14.20  | 15.00              |                    |
|                                 | 25              | LOW       | 64QAM      | 14.17      | 14.05  | 14.24  | 15.00              |                    |

| LTE B66-State2&4&6-Ant.4 (ENDC) |                 |           |            |            |        |        |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                              | 1               | LOW       | QPSK       | 14.07      | 14.32  | 14.36  | 15.00              |                    |
|                                 |                 | MID       | QPSK       | 14.28      | 14.26  | 14.49  | 15.00              |                    |
|                                 |                 | HIGH      | QPSK       | 14.47      | 14.23  | 14.29  | 15.00              |                    |
|                                 | 25              | LOW       | QPSK       | 14.28      | 14.25  | 14.23  | 15.00              |                    |
|                                 |                 | MID       | QPSK       | 14.43      | 14.37  | 14.40  | 15.00              |                    |
|                                 |                 | HIGH      | QPSK       | 14.43      | 14.16  | 14.33  | 15.00              |                    |
|                                 | 50              | LOW       | QPSK       | 14.41      | 14.48  | 14.72  | 15.00              |                    |
|                                 | 10              | 1         | LOW        | Q16        | 14.06  | 14.38  | 14.42              | 15.00              |
|                                 |                 |           | MID        | Q16        | 14.15  | 14.39  | 14.33              | 15.00              |
| HIGH                            |                 |           | Q16        | 14.36      | 14.68  | 14.32  | 15.00              |                    |
| 25                              |                 | LOW       | Q16        | 14.43      | 14.33  | 14.44  | 15.00              |                    |
|                                 |                 | MID       | Q16        | 14.17      | 14.32  | 14.28  | 15.00              |                    |
|                                 |                 | HIGH      | Q16        | 14.05      | 14.58  | 14.16  | 15.00              |                    |
| 50                              |                 | LOW       | Q16        | 14.26      | 14.47  | 14.52  | 15.00              |                    |
| 10                              |                 | 1         | LOW        | 64QAM      | 14.42  | 14.41  | 14.11              | 15.00              |
|                                 |                 |           | MID        | 64QAM      | 14.36  | 14.47  | 14.68              | 15.00              |
|                                 | HIGH            |           | 64QAM      | 14.32      | 14.13  | 14.39  | 15.00              |                    |
|                                 | 25              | LOW       | 64QAM      | 14.00      | 14.33  | 14.02  | 15.00              |                    |
|                                 |                 | MID       | 64QAM      | 14.12      | 14.12  | 14.26  | 15.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 14.02      | 14.19  | 14.30  | 15.00              |                    |
|                                 | 50              | LOW       | 64QAM      | 14.22      | 14.14  | 14.18  | 15.00              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                 | 15              | 1         | LOW        | QPSK       | 14.21  | 14.40  | 14.34              | 15.00              |
| MID                             |                 |           | QPSK       | 14.42      | 14.33  | 14.43  | 15.00              |                    |
| HIGH                            |                 |           | QPSK       | 14.49      | 14.37  | 14.27  | 15.00              |                    |
| 36                              |                 | LOW       | QPSK       | 14.17      | 14.34  | 14.51  | 15.00              |                    |
|                                 |                 | MID       | QPSK       | 14.29      | 14.27  | 14.50  | 15.00              |                    |
|                                 |                 | HIGH      | QPSK       | 14.48      | 14.39  | 14.38  | 15.00              |                    |
| 75                              |                 | LOW       | QPSK       | 14.62      | 14.49  | 14.48  | 15.00              |                    |
| 15                              |                 | 1         | LOW        | Q16        | 14.13  | 14.25  | 14.46              | 15.00              |
|                                 |                 |           | MID        | Q16        | 14.18  | 14.24  | 14.44              | 15.00              |
|                                 | HIGH            |           | Q16        | 14.36      | 14.67  | 14.21  | 15.00              |                    |
|                                 | 36              | LOW       | Q16        | 14.32      | 14.47  | 14.42  | 15.00              |                    |
|                                 |                 | MID       | Q16        | 14.28      | 14.34  | 14.15  | 15.00              |                    |
|                                 |                 | HIGH      | Q16        | 14.19      | 14.50  | 14.25  | 15.00              |                    |
|                                 | 75              | LOW       | Q16        | 14.37      | 14.45  | 14.60  | 15.00              |                    |
|                                 | 15              | 1         | LOW        | 64QAM      | 14.38  | 14.49  | 14.30              | 15.00              |
|                                 |                 |           | MID        | 64QAM      | 14.42  | 14.47  | 14.49              | 15.00              |
| HIGH                            |                 |           | 64QAM      | 14.52      | 14.32  | 14.36  | 15.00              |                    |
| 36                              |                 | LOW       | 64QAM      | 14.15      | 14.13  | 14.21  | 15.00              |                    |
|                                 |                 | MID       | 64QAM      | 13.95      | 14.09  | 14.23  | 15.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 14.17      | 14.30  | 14.36  | 15.00              |                    |
| 75                              |                 | LOW       | 64QAM      | 14.06      | 14.08  | 14.37  | 15.00              |                    |
| Bandwidth (MHz)                 |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                              |                 | 1         | LOW        | QPSK       | 14.14  | 14.28  | 14.24              | 15.00              |
|                                 | MID             |           | QPSK       | 14.40      | 14.34  | 14.49  | 15.00              |                    |
|                                 | HIGH            |           | QPSK       | 14.38      | 14.52  | 14.42  | 15.00              |                    |
|                                 | 50              | LOW       | QPSK       | 14.29      | 14.40  | 14.38  | 15.00              |                    |
|                                 |                 | MID       | QPSK       | 14.42      | 14.39  | 14.24  | 15.00              |                    |
|                                 |                 | HIGH      | QPSK       | 14.34      | 14.54  | 14.36  | 15.00              |                    |
|                                 | 100             | LOW       | QPSK       | 14.53      | 14.42  | 14.61  | 15.00              |                    |
|                                 | 20              | 1         | LOW        | Q16        | 14.20  | 14.38  | 14.47              | 15.00              |
|                                 |                 |           | MID        | Q16        | 14.25  | 14.36  | 14.47              | 15.00              |
| HIGH                            |                 |           | Q16        | 14.43      | 14.56  | 14.27  | 15.00              |                    |
| 50                              |                 | LOW       | Q16        | 14.30      | 14.32  | 14.35  | 15.00              |                    |
|                                 |                 | MID       | Q16        | 14.30      | 14.36  | 14.17  | 15.00              |                    |
|                                 |                 | HIGH      | Q16        | 14.20      | 14.50  | 14.12  | 15.00              |                    |
| 100                             |                 | LOW       | Q16        | 14.37      | 14.45  | 14.48  | 15.00              |                    |
| 20                              |                 | 1         | LOW        | 64QAM      | 14.28  | 14.36  | 14.18              | 15.00              |
|                                 |                 |           | MID        | 64QAM      | 14.30  | 14.42  | 14.54              | 15.00              |
|                                 | HIGH            |           | 64QAM      | 14.43      | 14.27  | 14.43  | 15.00              |                    |
|                                 | 50              | LOW       | 64QAM      | 14.13      | 14.21  | 14.11  | 15.00              |                    |
|                                 |                 | MID       | 64QAM      | 14.02      | 14.13  | 14.23  | 15.00              |                    |
|                                 |                 | HIGH      | 64QAM      | 14.10      | 14.33  | 14.23  | 15.00              |                    |
|                                 | 100             | LOW       | 64QAM      | 14.09      | 14.11  | 14.30  | 15.00              |                    |

### 8.3.5 LTE Band2 Output Power

| LTE B66-Full Power -Ant.4 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 22.81      | 22.80  | 22.66  | 23.40              |                    |
|                                  |                 | MID       | QPSK       | 22.85      | 22.82  | 22.81  | 23.40              |                    |
|                                  |                 | HIGH      | QPSK       | 22.80      | 22.81  | 22.67  | 23.40              |                    |
|                                  | 3               | LOW       | QPSK       | 22.74      | 22.79  | 22.80  | 23.40              |                    |
|                                  |                 | MID       | QPSK       | 22.81      | 22.88  | 22.73  | 23.40              |                    |
|                                  |                 | HIGH      | QPSK       | 22.69      | 22.72  | 22.84  | 23.40              |                    |
|                                  | 6               | LOW       | QPSK       | 21.67      | 21.79  | 21.64  | 22.40              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 21.96  | 21.87  | 21.90              | 22.40              |
|                                  |                 |           | MID        | Q16        | 22.04  | 21.75  | 21.88              | 22.40              |
| HIGH                             |                 |           | Q16        | 21.73      | 21.68  | 21.76  | 22.40              |                    |
| 3                                |                 | LOW       | Q16        | 21.63      | 21.68  | 21.62  | 22.40              |                    |
|                                  |                 | MID       | Q16        | 21.85      | 21.50  | 21.85  | 22.40              |                    |
|                                  |                 | HIGH      | Q16        | 21.86      | 21.60  | 21.76  | 22.40              |                    |
| 6                                |                 | LOW       | Q16        | 20.92      | 20.75  | 20.77  | 21.40              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 20.58  | 20.78  | 20.62              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.69  | 20.69  | 20.87              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 20.90      | 20.98  | 20.62  | 21.40              |                    |
|                                  | 3               | LOW       | 64QAM      | 20.83      | 20.70  | 20.67  | 21.40              |                    |
|                                  |                 | MID       | 64QAM      | 20.56      | 20.86  | 20.57  | 21.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 20.77      | 20.63  | 20.71  | 21.40              |                    |
|                                  | 6               | LOW       | 64QAM      | 19.68      | 19.66  | 19.52  | 20.40              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 22.60  | 22.84  | 22.78              | 23.40              |
| MID                              |                 |           | QPSK       | 22.93      | 22.81  | 22.81  | 23.40              |                    |
| HIGH                             |                 |           | QPSK       | 22.73      | 22.83  | 22.93  | 23.40              |                    |
| 8                                |                 | LOW       | QPSK       | 21.74      | 21.77  | 22.02  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.72      | 21.80  | 22.06  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.73      | 21.84  | 21.85  | 22.40              |                    |
| 15                               |                 | LOW       | QPSK       | 21.92      | 21.81  | 21.90  | 22.40              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 21.69  | 21.74  | 21.79              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.99  | 21.84  | 21.93              | 22.40              |
|                                  | HIGH            |           | Q16        | 21.99      | 21.66  | 22.03  | 22.40              |                    |
|                                  | 8               | LOW       | Q16        | 20.62      | 20.88  | 20.82  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.88      | 20.85  | 20.78  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.75      | 20.73  | 20.91  | 21.40              |                    |
|                                  | 15              | LOW       | Q16        | 20.78      | 20.79  | 20.75  | 21.40              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 20.79  | 20.74  | 20.64              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.91  | 20.68  | 20.78              | 21.40              |
| HIGH                             |                 |           | 64QAM      | 20.77      | 20.88  | 20.87  | 21.40              |                    |
| 8                                |                 | LOW       | 64QAM      | 19.69      | 19.75  | 19.95  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.89      | 19.83  | 19.71  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.86      | 19.89  | 19.68  | 20.40              |                    |
| 15                               |                 | LOW       | 64QAM      | 19.79      | 19.85  | 19.73  | 20.40              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 22.77  | 22.71  | 22.79              | 23.40              |
|                                  | MID             |           | QPSK       | 22.85      | 22.91  | 23.05  | 23.40              |                    |
|                                  | HIGH            |           | QPSK       | 22.88      | 22.63  | 22.94  | 23.40              |                    |
|                                  | 12              | LOW       | QPSK       | 21.70      | 21.75  | 22.03  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.77      | 21.69  | 22.03  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.72      | 21.71  | 21.71  | 22.40              |                    |
|                                  | 25              | LOW       | QPSK       | 21.66      | 21.79  | 21.89  | 22.40              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 21.90  | 21.72  | 21.68              | 22.40              |
|                                  |                 |           | MID        | Q16        | 22.04  | 21.97  | 21.87              | 22.40              |
| HIGH                             |                 |           | Q16        | 22.00      | 21.88  | 21.77  | 22.40              |                    |
| 12                               |                 | LOW       | Q16        | 20.84      | 20.76  | 20.79  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.77      | 20.87  | 20.89  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.83      | 20.90  | 20.68  | 21.40              |                    |
| 25                               |                 | LOW       | Q16        | 20.64      | 20.80  | 20.81  | 21.40              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 20.67  | 20.73  | 20.67              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.93  | 20.73  | 20.80              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 20.71      | 20.76  | 20.94  | 21.40              |                    |
|                                  | 12              | LOW       | 64QAM      | 19.65      | 19.73  | 19.86  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.68      | 19.74  | 19.91  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.77      | 19.81  | 19.86  | 20.40              |                    |
|                                  | 25              | LOW       | 64QAM      | 19.83      | 19.73  | 19.67  | 20.40              |                    |

| LTE B66-Full Power -Ant.4 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 22.75      | 22.77  | 22.75  | 23.40              |                    |
|                                  |                 | MID       | QPSK       | 22.90      | 22.91  | 22.75  | 23.40              |                    |
|                                  |                 | HIGH      | QPSK       | 22.76      | 22.84  | 22.73  | 23.40              |                    |
|                                  | 25              | LOW       | QPSK       | 21.82      | 21.92  | 21.82  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.82      | 21.69  | 21.87  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.88      | 21.64  | 21.93  | 22.40              |                    |
|                                  | 50              | LOW       | QPSK       | 21.91      | 21.69  | 22.02  | 22.40              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 21.80  | 21.66  | 21.68              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.87  | 21.94  | 22.08              | 22.40              |
| HIGH                             |                 |           | Q16        | 21.78      | 21.74  | 21.88  | 22.40              |                    |
| 25                               |                 | LOW       | Q16        | 20.77      | 20.76  | 20.77  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.95      | 20.87  | 20.96  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.92      | 20.85  | 20.91  | 21.40              |                    |
| 50                               |                 | LOW       | Q16        | 20.88      | 20.82  | 20.90  | 21.40              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 20.70  | 20.60  | 20.82              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.86  | 20.69  | 21.07              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 20.76      | 20.78  | 20.67  | 21.40              |                    |
|                                  | 25              | LOW       | 64QAM      | 19.67      | 19.76  | 19.96  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.91      | 19.69  | 19.77  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.69      | 19.64  | 19.81  | 20.40              |                    |
|                                  | 50              | LOW       | 64QAM      | 19.66      | 19.61  | 19.85  | 20.40              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 22.90  | 22.84  | 22.60              | 23.40              |
| MID                              |                 |           | QPSK       | 22.98      | 22.84  | 23.05  | 23.40              |                    |
| HIGH                             |                 |           | QPSK       | 22.65      | 22.74  | 22.91  | 23.40              |                    |
| 36                               |                 | LOW       | QPSK       | 21.63      | 21.92  | 21.91  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.73      | 21.70  | 21.94  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.87      | 21.88  | 21.93  | 22.40              |                    |
| 75                               |                 | LOW       | QPSK       | 21.78      | 21.92  | 22.02  | 22.40              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 21.72  | 21.80  | 21.81              | 22.40              |
|                                  |                 |           | MID        | Q16        | 22.06  | 21.76  | 21.97              | 22.40              |
|                                  | HIGH            |           | Q16        | 21.97      | 21.67  | 21.80  | 22.40              |                    |
|                                  | 36              | LOW       | Q16        | 20.63      | 20.83  | 20.80  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.94      | 20.91  | 20.91  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.94      | 20.65  | 20.92  | 21.40              |                    |
|                                  | 75              | LOW       | Q16        | 20.79      | 20.82  | 20.92  | 21.40              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 20.71  | 20.74  | 20.91              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.87  | 20.84  | 20.96              | 21.40              |
| HIGH                             |                 |           | 64QAM      | 20.70      | 20.88  | 20.89  | 21.40              |                    |
| 36                               |                 | LOW       | 64QAM      | 19.78      | 19.71  | 19.80  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.74      | 19.64  | 19.73  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.57      | 19.80  | 19.69  | 20.40              |                    |
| 75                               |                 | LOW       | 64QAM      | 19.59      | 19.75  | 19.86  | 20.40              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                               |                 | 1         | LOW        | QPSK       | 22.75  | 22.71  | 22.75              | 23.40              |
|                                  | MID             |           | QPSK       | 22.89      | 22.86  | 22.90  | 23.40              |                    |
|                                  | HIGH            |           | QPSK       | 22.79      | 22.76  | 22.82  | 23.40              |                    |
|                                  | 50              | LOW       | QPSK       | 21.74      | 21.84  | 21.92  | 22.40              |                    |
|                                  |                 | MID       | QPSK       | 21.86      | 21.82  | 21.92  | 22.40              |                    |
|                                  |                 | HIGH      | QPSK       | 21.85      | 21.78  | 21.86  | 22.40              |                    |
|                                  | 100             | LOW       | QPSK       | 21.80      | 21.82  | 21.90  | 22.40              |                    |
|                                  | 20              | 1         | LOW        | Q16        | 21.83  | 21.76  | 21.83              | 22.40              |
|                                  |                 |           | MID        | Q16        | 21.96  | 21.89  | 21.95              | 22.40              |
| HIGH                             |                 |           | Q16        | 21.86      | 21.80  | 21.89  | 22.40              |                    |
| 50                               |                 | LOW       | Q16        | 20.71      | 20.74  | 20.87  | 21.40              |                    |
|                                  |                 | MID       | Q16        | 20.82      | 20.77  | 20.84  | 21.40              |                    |
|                                  |                 | HIGH      | Q16        | 20.79      | 20.79  | 20.80  | 21.40              |                    |
| 100                              |                 | LOW       | Q16        | 20.77      | 20.78  | 20.86  | 21.40              |                    |
| 20                               |                 | 1         | LOW        | 64QAM      | 20.79  | 20.68  | 20.78              | 21.40              |
|                                  |                 |           | MID        | 64QAM      | 20.90  | 20.83  | 20.92              | 21.40              |
|                                  | HIGH            |           | 64QAM      | 20.78      | 20.76  | 20.81  | 21.40              |                    |
|                                  | 50              | LOW       | 64QAM      | 19.68      | 19.76  | 19.89  | 20.40              |                    |
|                                  |                 | MID       | 64QAM      | 19.76      | 19.72  | 19.82  | 20.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 19.72      | 19.75  | 19.77  | 20.40              |                    |
|                                  | 100             | LOW       | 64QAM      | 19.70      | 19.71  | 19.80  | 20.40              |                    |

| LTE B66-State1&3&5 -Ant.4 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                              | 1               | LOW       | QPSK       | 16.71      | 16.75  | 16.83  | 17.40              |                    |
|                                  |                 | MID       | QPSK       | 16.91      | 16.83  | 16.76  | 17.40              |                    |
|                                  |                 | HIGH      | QPSK       | 16.89      | 16.84  | 16.94  | 17.40              |                    |
|                                  | 3               | LOW       | QPSK       | 16.90      | 16.85  | 17.01  | 17.40              |                    |
|                                  |                 | MID       | QPSK       | 16.92      | 16.94  | 16.72  | 17.40              |                    |
|                                  |                 | HIGH      | QPSK       | 17.01      | 16.85  | 16.70  | 17.40              |                    |
|                                  | 6               | LOW       | QPSK       | 17.07      | 16.89  | 17.08  | 17.40              |                    |
|                                  | 1.4             | 1         | LOW        | Q16        | 16.69  | 16.87  | 16.84              | 17.40              |
|                                  |                 |           | MID        | Q16        | 16.89  | 16.69  | 17.02              | 17.40              |
| HIGH                             |                 |           | Q16        | 16.74      | 16.83  | 16.79  | 17.40              |                    |
| 3                                |                 | LOW       | Q16        | 16.62      | 16.82  | 16.84  | 17.40              |                    |
|                                  |                 | MID       | Q16        | 16.75      | 16.65  | 16.85  | 17.40              |                    |
|                                  |                 | HIGH      | Q16        | 16.79      | 16.66  | 16.80  | 17.40              |                    |
| 6                                |                 | LOW       | Q16        | 16.94      | 16.79  | 16.85  | 17.40              |                    |
| 1.4                              |                 | 1         | LOW        | 64QAM      | 16.73  | 16.82  | 16.84              | 17.40              |
|                                  |                 |           | MID        | 64QAM      | 16.69  | 16.97  | 16.83              | 17.40              |
|                                  | HIGH            |           | 64QAM      | 16.87      | 17.01  | 17.00  | 17.40              |                    |
|                                  | 3               | LOW       | 64QAM      | 17.02      | 16.98  | 16.95  | 17.40              |                    |
|                                  |                 | MID       | 64QAM      | 16.92      | 17.02  | 17.12  | 17.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 16.98      | 17.01  | 17.01  | 17.40              |                    |
|                                  | 6               | LOW       | 64QAM      | 16.65      | 16.75  | 16.59  | 17.40              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                                  | 3               | 1         | LOW        | QPSK       | 16.84  | 16.76  | 16.69              | 17.40              |
| MID                              |                 |           | QPSK       | 16.59      | 16.61  | 16.78  | 17.40              |                    |
| HIGH                             |                 |           | QPSK       | 16.78      | 16.63  | 16.65  | 17.40              |                    |
| 8                                |                 | LOW       | QPSK       | 16.88      | 16.70  | 17.04  | 17.40              |                    |
|                                  |                 | MID       | QPSK       | 17.02      | 16.95  | 16.91  | 17.40              |                    |
|                                  |                 | HIGH      | QPSK       | 17.17      | 16.81  | 16.83  | 17.40              |                    |
| 15                               |                 | LOW       | QPSK       | 16.47      | 16.86  | 16.75  | 17.40              |                    |
| 3                                |                 | 1         | LOW        | Q16        | 16.59  | 16.89  | 16.81              | 17.40              |
|                                  |                 |           | MID        | Q16        | 16.87  | 16.63  | 17.09              | 17.40              |
|                                  | HIGH            |           | Q16        | 16.61      | 16.66  | 16.74  | 17.40              |                    |
|                                  | 8               | LOW       | Q16        | 16.83      | 16.83  | 16.97  | 17.40              |                    |
|                                  |                 | MID       | Q16        | 16.91      | 16.97  | 16.85  | 17.40              |                    |
|                                  |                 | HIGH      | Q16        | 16.97      | 16.78  | 16.96  | 17.40              |                    |
|                                  | 15              | LOW       | Q16        | 16.92      | 16.69  | 16.93  | 17.40              |                    |
|                                  | 3               | 1         | LOW        | 64QAM      | 16.84  | 16.97  | 16.57              | 17.40              |
|                                  |                 |           | MID        | 64QAM      | 16.82  | 16.89  | 16.76              | 17.40              |
| HIGH                             |                 |           | 64QAM      | 17.06      | 16.76  | 16.93  | 17.40              |                    |
| 8                                |                 | LOW       | 64QAM      | 16.88      | 16.67  | 16.81  | 17.40              |                    |
|                                  |                 | MID       | 64QAM      | 16.78      | 16.73  | 17.04  | 17.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 16.67      | 16.66  | 16.99  | 17.40              |                    |
| 15                               |                 | LOW       | 64QAM      | 16.71      | 16.97  | 16.66  | 17.40              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                                |                 | 1         | LOW        | QPSK       | 16.85  | 16.70  | 16.62              | 17.40              |
|                                  | MID             |           | QPSK       | 16.50      | 16.70  | 16.81  | 17.40              |                    |
|                                  | HIGH            |           | QPSK       | 16.79      | 16.63  | 16.52  | 17.40              |                    |
|                                  | 12              | LOW       | QPSK       | 16.72      | 16.94  | 16.81  | 17.40              |                    |
|                                  |                 | MID       | QPSK       | 17.06      | 16.95  | 17.02  | 17.40              |                    |
|                                  |                 | HIGH      | QPSK       | 17.05      | 16.71  | 16.81  | 17.40              |                    |
|                                  | 25              | LOW       | QPSK       | 16.64      | 16.88  | 16.65  | 17.40              |                    |
|                                  | 5               | 1         | LOW        | Q16        | 16.85  | 16.74  | 16.64              | 17.40              |
|                                  |                 |           | MID        | Q16        | 16.99  | 16.72  | 16.82              | 17.40              |
| HIGH                             |                 |           | Q16        | 16.56      | 16.72  | 16.68  | 17.40              |                    |
| 12                               |                 | LOW       | Q16        | 16.62      | 16.95  | 16.96  | 17.40              |                    |
|                                  |                 | MID       | Q16        | 16.98      | 17.01  | 16.98  | 17.40              |                    |
|                                  |                 | HIGH      | Q16        | 16.96      | 16.86  | 17.02  | 17.40              |                    |
| 25                               |                 | LOW       | Q16        | 16.68      | 16.61  | 16.84  | 17.40              |                    |
| 5                                |                 | 1         | LOW        | 64QAM      | 16.88  | 16.85  | 16.59              | 17.40              |
|                                  |                 |           | MID        | 64QAM      | 16.67  | 16.72  | 16.69              | 17.40              |
|                                  | HIGH            |           | 64QAM      | 16.77      | 16.51  | 16.71  | 17.40              |                    |
|                                  | 12              | LOW       | 64QAM      | 16.74      | 16.84  | 16.79  | 17.40              |                    |
|                                  |                 | MID       | 64QAM      | 16.56      | 16.68  | 16.94  | 17.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 16.63      | 16.53  | 17.05  | 17.40              |                    |
|                                  | 25              | LOW       | 64QAM      | 16.54      | 16.93  | 16.64  | 17.40              |                    |

| LTE B66-State1&3&5 -Ant.4 (ENDC) |                 |           |            |            |        |        |                    |                    |
|----------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                  | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                               | 1               | LOW       | QPSK       | 16.84      | 16.89  | 16.77  | 17.40              |                    |
|                                  |                 | MID       | QPSK       | 16.56      | 16.76  | 16.82  | 17.40              |                    |
|                                  |                 | HIGH      | QPSK       | 16.70      | 16.62  | 16.50  | 17.40              |                    |
|                                  | 25              | LOW       | QPSK       | 16.86      | 16.71  | 16.94  | 17.40              |                    |
|                                  |                 | MID       | QPSK       | 16.98      | 16.89  | 16.82  | 17.40              |                    |
|                                  |                 | HIGH      | QPSK       | 16.94      | 16.85  | 16.77  | 17.40              |                    |
|                                  | 50              | LOW       | QPSK       | 16.45      | 16.67  | 16.61  | 17.40              |                    |
|                                  | 10              | 1         | LOW        | Q16        | 16.62  | 16.95  | 16.87              | 17.40              |
|                                  |                 |           | MID        | Q16        | 17.04  | 16.57  | 16.92              | 17.40              |
| HIGH                             |                 |           | Q16        | 16.52      | 16.89  | 16.92  | 17.40              |                    |
| 25                               |                 | LOW       | Q16        | 16.71      | 16.92  | 16.95  | 17.40              |                    |
|                                  |                 | MID       | Q16        | 16.95      | 16.96  | 16.89  | 17.40              |                    |
|                                  |                 | HIGH      | Q16        | 16.99      | 16.97  | 17.21  | 17.40              |                    |
| 50                               |                 | LOW       | Q16        | 16.92      | 16.64  | 16.85  | 17.40              |                    |
| 10                               |                 | 1         | LOW        | 64QAM      | 16.85  | 16.81  | 16.57              | 17.40              |
|                                  |                 |           | MID        | 64QAM      | 16.71  | 16.69  | 16.53              | 17.40              |
|                                  | HIGH            |           | 64QAM      | 16.92      | 16.75  | 16.96  | 17.40              |                    |
|                                  | 25              | LOW       | 64QAM      | 16.89      | 16.76  | 16.92  | 17.40              |                    |
|                                  |                 | MID       | 64QAM      | 16.65      | 16.80  | 16.83  | 17.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 16.71      | 16.66  | 16.88  | 17.40              |                    |
|                                  | 50              | LOW       | 64QAM      | 16.44      | 16.85  | 16.78  | 17.40              |                    |
|                                  | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                  | 15              | 1         | LOW        | QPSK       | 16.76  | 16.73  | 16.59              | 17.40              |
| MID                              |                 |           | QPSK       | 16.74      | 16.64  | 16.83  | 17.40              |                    |
| HIGH                             |                 |           | QPSK       | 16.84      | 16.67  | 16.59  | 17.40              |                    |
| 36                               |                 | LOW       | QPSK       | 16.90      | 16.97  | 16.92  | 17.40              |                    |
|                                  |                 | MID       | QPSK       | 17.18      | 17.02  | 16.73  | 17.40              |                    |
|                                  |                 | HIGH      | QPSK       | 17.18      | 16.96  | 16.95  | 17.40              |                    |
| 75                               |                 | LOW       | QPSK       | 16.52      | 16.81  | 16.60  | 17.40              |                    |
| 15                               |                 | 1         | LOW        | Q16        | 16.75  | 16.82  | 16.69              | 17.40              |
|                                  |                 |           | MID        | Q16        | 16.93  | 16.50  | 17.07              | 17.40              |
|                                  | HIGH            |           | Q16        | 16.59      | 16.76  | 16.76  | 17.40              |                    |
|                                  | 36              | LOW       | Q16        | 16.76      | 16.83  | 17.01  | 17.40              |                    |
|                                  |                 | MID       | Q16        | 17.00      | 16.86  | 16.85  | 17.40              |                    |
|                                  |                 | HIGH      | Q16        | 16.89      | 16.77  | 17.13  | 17.40              |                    |
|                                  | 75              | LOW       | Q16        | 16.65      | 16.72  | 16.84  | 17.40              |                    |
|                                  | 15              | 1         | LOW        | 64QAM      | 16.77  | 16.77  | 16.75              | 17.40              |
|                                  |                 |           | MID        | 64QAM      | 16.73  | 16.80  | 16.75              | 17.40              |
| HIGH                             |                 |           | 64QAM      | 16.92      | 16.59  | 16.81  | 17.40              |                    |
| 36                               |                 | LOW       | 64QAM      | 16.74      | 16.69  | 16.95  | 17.40              |                    |
|                                  |                 | MID       | 64QAM      | 16.56      | 16.64  | 16.87  | 17.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 16.61      | 16.57  | 16.84  | 17.40              |                    |
| 75                               |                 | LOW       | 64QAM      | 16.45      | 16.79  | 16.75  | 17.40              |                    |
| Bandwidth (MHz)                  |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                               |                 | 1         | LOW        | QPSK       | 16.76  | 16.82  | 16.71              | 17.40              |
|                                  | MID             |           | QPSK       | 16.64      | 16.72  | 16.69  | 17.40              |                    |
|                                  | HIGH            |           | QPSK       | 16.81      | 16.91  | 16.61  | 17.40              |                    |
|                                  | 50              | LOW       | QPSK       | 16.81      | 16.85  | 16.92  | 17.40              |                    |
|                                  |                 | MID       | QPSK       | 17.03      | 16.96  | 16.87  | 17.40              |                    |
|                                  |                 | HIGH      | QPSK       | 16.88      | 17.05  | 16.82  | 17.40              |                    |
|                                  | 100             | LOW       | QPSK       | 16.59      | 16.79  | 16.73  | 17.40              |                    |
|                                  | 20              | 1         | LOW        | Q16        | 16.70  | 16.82  | 16.72              | 17.40              |
|                                  |                 |           | MID        | Q16        | 16.94  | 16.65  | 16.94              | 17.40              |
| HIGH                             |                 |           | Q16        | 16.65      | 16.81  | 16.81  | 17.40              |                    |
| 50                               |                 | LOW       | Q16        | 16.77      | 16.89  | 17.07  | 17.40              |                    |
|                                  |                 | MID       | Q16        | 16.90      | 17.01  | 16.92  | 17.40              |                    |
|                                  |                 | HIGH      | Q16        | 17.04      | 16.86  | 17.09  | 17.40              |                    |
| 100                              |                 | LOW       | Q16        | 16.80      | 16.72  | 16.96  | 17.40              |                    |
| 20                               |                 | 1         | LOW        | 64QAM      | 16.91  | 16.82  | 16.71              | 17.40              |
|                                  |                 |           | MID        | 64QAM      | 16.71  | 16.80  | 16.63              | 17.40              |
|                                  | HIGH            |           | 64QAM      | 16.91      | 16.66  | 16.81  | 17.40              |                    |
|                                  | 50              | LOW       | 64QAM      | 16.74      | 16.75  | 16.83  | 17.40              |                    |
|                                  |                 | MID       | 64QAM      | 16.71      | 16.79  | 16.94  | 17.40              |                    |
|                                  |                 | HIGH      | 64QAM      | 16.65      | 16.64  | 16.90  | 17.40              |                    |
|                                  | 100             | LOW       | 64QAM      | 16.57      | 16.94  | 16.69  | 17.40              |                    |

| LTE B66-State2&4&6-Ant.4 (ENDC) |                 |           |            |            |        |        |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 131979     | 132322 | 132665 | Tune-up power(dBm) |                    |
| 1.4                             | 1               | LOW       | QPSK       | 13.89      | 13.86  | 13.98  | 14.40              |                    |
|                                 |                 | MID       | QPSK       | 13.76      | 13.75  | 13.63  | 14.40              |                    |
|                                 |                 | HIGH      | QPSK       | 13.90      | 13.80  | 13.79  | 14.40              |                    |
|                                 | 3               | LOW       | QPSK       | 13.83      | 13.79  | 13.66  | 14.40              |                    |
|                                 |                 | MID       | QPSK       | 13.93      | 13.73  | 13.94  | 14.40              |                    |
|                                 |                 | HIGH      | QPSK       | 13.96      | 13.74  | 13.71  | 14.40              |                    |
|                                 | 6               | LOW       | QPSK       | 13.87      | 13.89  | 13.87  | 14.40              |                    |
|                                 | 1.4             | 1         | LOW        | Q16        | 13.71  | 13.82  | 13.86              | 14.40              |
|                                 |                 |           | MID        | Q16        | 13.98  | 14.00  | 13.73              | 14.40              |
| HIGH                            |                 |           | Q16        | 13.71      | 13.69  | 13.65  | 14.40              |                    |
| 3                               |                 | LOW       | Q16        | 13.74      | 13.72  | 13.68  | 14.40              |                    |
|                                 |                 | MID       | Q16        | 13.86      | 13.71  | 13.69  | 14.40              |                    |
|                                 |                 | HIGH      | Q16        | 13.81      | 13.72  | 13.91  | 14.40              |                    |
| 6                               |                 | LOW       | Q16        | 13.66      | 13.82  | 13.80  | 14.40              |                    |
| 1.4                             |                 | 1         | LOW        | 64QAM      | 13.78  | 13.75  | 13.89              | 14.40              |
|                                 |                 |           | MID        | 64QAM      | 13.70  | 13.66  | 13.81              | 14.40              |
|                                 | HIGH            |           | 64QAM      | 13.66      | 13.65  | 13.70  | 14.40              |                    |
|                                 | 3               | LOW       | 64QAM      | 13.95      | 13.82  | 13.69  | 14.40              |                    |
|                                 |                 | MID       | 64QAM      | 13.69      | 13.80  | 13.86  | 14.40              |                    |
|                                 |                 | HIGH      | 64QAM      | 13.83      | 13.72  | 13.69  | 14.40              |                    |
|                                 | 6               | LOW       | 64QAM      | 13.98      | 13.81  | 13.84  | 14.40              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 131987 | 132322 | 132657             | Tune-up power(dBm) |
|                                 | 3               | 1         | LOW        | QPSK       | 13.90  | 13.63  | 13.88              | 14.40              |
| MID                             |                 |           | QPSK       | 13.65      | 13.72  | 13.59  | 14.40              |                    |
| HIGH                            |                 |           | QPSK       | 13.69      | 13.59  | 13.45  | 14.40              |                    |
| 8                               |                 | LOW       | QPSK       | 13.89      | 13.82  | 13.65  | 14.40              |                    |
|                                 |                 | MID       | QPSK       | 13.67      | 13.69  | 13.97  | 14.40              |                    |
|                                 |                 | HIGH      | QPSK       | 13.78      | 13.69  | 13.78  | 14.40              |                    |
| 15                              |                 | LOW       | QPSK       | 13.91      | 13.71  | 13.83  | 14.40              |                    |
| 3                               |                 | 1         | LOW        | Q16        | 13.48  | 13.85  | 13.64              | 14.40              |
|                                 |                 |           | MID        | Q16        | 13.85  | 13.60  | 13.43              | 14.40              |
|                                 | HIGH            |           | Q16        | 13.57      | 13.66  | 13.67  | 14.40              |                    |
|                                 | 8               | LOW       | Q16        | 13.65      | 13.64  | 13.68  | 14.40              |                    |
|                                 |                 | MID       | Q16        | 13.75      | 13.64  | 13.75  | 14.40              |                    |
|                                 |                 | HIGH      | Q16        | 13.74      | 13.58  | 13.72  | 14.40              |                    |
|                                 | 15              | LOW       | Q16        | 13.63      | 13.68  | 13.91  | 14.40              |                    |
|                                 | 3               | 1         | LOW        | 64QAM      | 13.97  | 13.78  | 13.89              | 14.40              |
|                                 |                 |           | MID        | 64QAM      | 13.59  | 13.85  | 13.82              | 14.40              |
| HIGH                            |                 |           | 64QAM      | 13.72      | 13.98  | 13.76  | 14.40              |                    |
| 8                               |                 | LOW       | 64QAM      | 13.81      | 13.75  | 13.86  | 14.40              |                    |
|                                 |                 | MID       | 64QAM      | 13.68      | 13.93  | 13.73  | 14.40              |                    |
|                                 |                 | HIGH      | 64QAM      | 13.73      | 13.85  | 13.67  | 14.40              |                    |
| 15                              |                 | LOW       | 64QAM      | 13.62      | 13.89  | 13.73  | 14.40              |                    |
| Bandwidth (MHz)                 |                 | RB Size   | RB offset  | Modulation | 131997 | 132322 | 132647             | Tune-up power(dBm) |
| 5                               |                 | 1         | LOW        | QPSK       | 13.63  | 13.57  | 13.65              | 14.40              |
|                                 | MID             |           | QPSK       | 13.61      | 13.62  | 13.77  | 14.40              |                    |
|                                 | HIGH            |           | QPSK       | 13.58      | 13.68  | 13.57  | 14.40              |                    |
|                                 | 12              | LOW       | QPSK       | 13.80      | 13.69  | 13.82  | 14.40              |                    |
|                                 |                 | MID       | QPSK       | 13.49      | 13.66  | 13.96  | 14.40              |                    |
|                                 |                 | HIGH      | QPSK       | 13.80      | 13.61  | 14.00  | 14.40              |                    |
|                                 | 25              | LOW       | QPSK       | 13.77      | 13.96  | 13.90  | 14.40              |                    |
|                                 | 5               | 1         | LOW        | Q16        | 13.53  | 13.78  | 13.65              | 14.40              |
|                                 |                 |           | MID        | Q16        | 13.87  | 13.77  | 13.53              | 14.40              |
| HIGH                            |                 |           | Q16        | 13.70      | 13.82  | 13.53  | 14.40              |                    |
| 12                              |                 | LOW       | Q16        | 13.76      | 13.67  | 13.72  | 14.40              |                    |
|                                 |                 | MID       | Q16        | 13.87      | 13.62  | 13.75  | 14.40              |                    |
|                                 |                 | HIGH      | Q16        | 13.51      | 13.51  | 13.76  | 14.40              |                    |
| 25                              |                 | LOW       | Q16        | 13.85      | 13.75  | 13.89  | 14.40              |                    |
| 5                               |                 | 1         | LOW        | 64QAM      | 13.84  | 13.77  | 13.84              | 14.40              |
|                                 |                 |           | MID        | 64QAM      | 13.71  | 13.76  | 13.80              | 14.40              |
|                                 | HIGH            |           | 64QAM      | 13.95      | 14.05  | 13.69  | 14.40              |                    |
|                                 | 12              | LOW       | 64QAM      | 13.83      | 13.62  | 13.99  | 14.40              |                    |
|                                 |                 | MID       | 64QAM      | 13.95      | 13.84  | 13.94  | 14.40              |                    |
|                                 |                 | HIGH      | 64QAM      | 13.62      | 13.75  | 13.54  | 14.40              |                    |
|                                 | 25              | LOW       | 64QAM      | 13.71      | 13.83  | 13.90  | 14.40              |                    |



| LTE B66-State2&4&6-Ant.4 (ENDC) |                 |           |            |            |        |        |                    |                    |
|---------------------------------|-----------------|-----------|------------|------------|--------|--------|--------------------|--------------------|
| Bandwidth (MHz)                 | RB Size         | RB offset | Modulation | 132022     | 132322 | 132622 | Tune-up power(dBm) |                    |
| 10                              | 1               | LOW       | QPSK       | 13.68      | 13.73  | 13.83  | 14.40              |                    |
|                                 |                 | MID       | QPSK       | 13.56      | 13.62  | 13.58  | 14.40              |                    |
|                                 |                 | HIGH      | QPSK       | 13.45      | 13.76  | 13.67  | 14.40              |                    |
|                                 | 25              | LOW       | QPSK       | 13.77      | 13.66  | 13.72  | 14.40              |                    |
|                                 |                 | MID       | QPSK       | 13.66      | 13.49  | 13.94  | 14.40              |                    |
|                                 |                 | HIGH      | QPSK       | 13.82      | 13.72  | 13.93  | 14.40              |                    |
|                                 | 50              | LOW       | QPSK       | 13.70      | 13.72  | 13.82  | 14.40              |                    |
|                                 | 10              | 1         | LOW        | Q16        | 13.67  | 13.89  | 13.56              | 14.40              |
|                                 |                 |           | MID        | Q16        | 13.70  | 13.69  | 13.70              | 14.40              |
| HIGH                            |                 |           | Q16        | 13.67      | 13.73  | 13.52  | 14.40              |                    |
| 25                              |                 | LOW       | Q16        | 13.65      | 13.79  | 13.66  | 14.40              |                    |
|                                 |                 | MID       | Q16        | 13.80      | 13.67  | 13.89  | 14.40              |                    |
|                                 |                 | HIGH      | Q16        | 13.75      | 13.69  | 13.83  | 14.40              |                    |
| 50                              |                 | LOW       | Q16        | 13.83      | 13.73  | 13.91  | 14.40              |                    |
| 10                              |                 | 1         | LOW        | 64QAM      | 13.73  | 13.85  | 13.65              | 14.40              |
|                                 |                 |           | MID        | 64QAM      | 13.61  | 13.83  | 13.64              | 14.40              |
|                                 | HIGH            |           | 64QAM      | 13.73      | 13.98  | 13.71  | 14.40              |                    |
|                                 | 25              | LOW       | 64QAM      | 14.02      | 13.76  | 14.04  | 14.40              |                    |
|                                 |                 | MID       | 64QAM      | 13.77      | 13.92  | 13.74  | 14.40              |                    |
|                                 |                 | HIGH      | 64QAM      | 13.73      | 13.80  | 13.61  | 14.40              |                    |
|                                 | 50              | LOW       | 64QAM      | 13.60      | 13.99  | 13.90  | 14.40              |                    |
|                                 | Bandwidth (MHz) | RB Size   | RB offset  | Modulation | 132047 | 132322 | 132597             | Tune-up power(dBm) |
|                                 | 15              | 1         | LOW        | QPSK       | 13.66  | 13.85  | 13.83              | 14.40              |
| MID                             |                 |           | QPSK       | 13.75      | 13.69  | 13.57  | 14.40              |                    |
| HIGH                            |                 |           | QPSK       | 13.67      | 13.63  | 13.38  | 14.40              |                    |
| 36                              |                 | LOW       | QPSK       | 14.00      | 13.79  | 13.67  | 14.40              |                    |
|                                 |                 | MID       | QPSK       | 13.56      | 13.71  | 13.84  | 14.40              |                    |
|                                 |                 | HIGH      | QPSK       | 13.77      | 13.70  | 13.96  | 14.40              |                    |
| 75                              |                 | LOW       | QPSK       | 13.92      | 13.78  | 13.76  | 14.40              |                    |
| 15                              |                 | 1         | LOW        | Q16        | 13.75  | 13.86  | 13.68              | 14.40              |
|                                 |                 |           | MID        | Q16        | 13.90  | 13.47  | 13.47              | 14.40              |
|                                 | HIGH            |           | Q16        | 13.66      | 13.71  | 13.61  | 14.40              |                    |
|                                 | 36              | LOW       | Q16        | 13.63      | 13.67  | 13.85  | 14.40              |                    |
|                                 |                 | MID       | Q16        | 14.03      | 13.58  | 13.76  | 14.40              |                    |
|                                 |                 | HIGH      | Q16        | 13.58      | 13.64  | 13.87  | 14.40              |                    |
|                                 | 75              | LOW       | Q16        | 13.78      | 13.72  | 14.05  | 14.40              |                    |
|                                 | 15              | 1         | LOW        | 64QAM      | 13.84  | 13.68  | 14.05              | 14.40              |
|                                 |                 |           | MID        | 64QAM      | 13.82  | 13.88  | 13.64              | 14.40              |
| HIGH                            |                 |           | 64QAM      | 13.75      | 14.05  | 13.75  | 14.40              |                    |
| 36                              |                 | LOW       | 64QAM      | 13.77      | 13.82  | 13.91  | 14.40              |                    |
|                                 |                 | MID       | 64QAM      | 13.69      | 13.85  | 13.69  | 14.40              |                    |
|                                 |                 | HIGH      | 64QAM      | 13.53      | 13.76  | 13.53  | 14.40              |                    |
| 75                              |                 | LOW       | 64QAM      | 13.62      | 13.83  | 13.76  | 14.40              |                    |
| Bandwidth (MHz)                 |                 | RB Size   | RB offset  | Modulation | 132072 | 132322 | 132572             | Tune-up power(dBm) |
| 20                              |                 | 1         | LOW        | QPSK       | 13.78  | 13.72  | 13.78              | 14.40              |
|                                 | MID             |           | QPSK       | 13.70      | 13.73  | 13.67  | 14.40              |                    |
|                                 | HIGH            |           | QPSK       | 13.58      | 13.79  | 13.53  | 14.40              |                    |
|                                 | 50              | LOW       | QPSK       | 13.86      | 13.76  | 13.69  | 14.40              |                    |
|                                 |                 | MID       | QPSK       | 13.62      | 13.61  | 13.68  | 14.40              |                    |
|                                 |                 | HIGH      | QPSK       | 13.74      | 13.95  | 13.89  | 14.40              |                    |
|                                 | 100             | LOW       | QPSK       | 13.84      | 13.82  | 13.75  | 14.40              |                    |
|                                 | 20              | 1         | LOW        | Q16        | 13.61  | 13.75  | 13.61              | 14.40              |
|                                 |                 |           | MID        | Q16        | 13.85  | 13.62  | 13.58              | 14.40              |
| HIGH                            |                 |           | Q16        | 13.71      | 13.78  | 13.61  | 14.40              |                    |
| 50                              |                 | LOW       | Q16        | 13.78      | 13.75  | 13.75  | 14.40              |                    |
|                                 |                 | MID       | Q16        | 13.89      | 13.72  | 13.76  | 14.40              |                    |
|                                 |                 | HIGH      | Q16        | 13.61      | 13.59  | 13.73  | 14.40              |                    |
| 100                             |                 | LOW       | Q16        | 13.70      | 13.77  | 13.93  | 14.40              |                    |
| 20                              |                 | 1         | LOW        | 64QAM      | 13.83  | 13.79  | 13.94              | 14.40              |
|                                 |                 |           | MID        | 64QAM      | 13.70  | 13.91  | 13.72              | 14.40              |
|                                 | HIGH            |           | 64QAM      | 13.81      | 13.90  | 13.78  | 14.40              |                    |
|                                 | 50              | LOW       | 64QAM      | 13.89      | 13.76  | 13.91  | 14.40              |                    |
|                                 |                 | MID       | 64QAM      | 13.82      | 13.88  | 13.84  | 14.40              |                    |
|                                 |                 | HIGH      | 64QAM      | 13.60      | 13.71  | 13.62  | 14.40              |                    |
|                                 | 100             | LOW       | 64QAM      | 13.57      | 13.90  | 13.85  | 14.40              |                    |

## 8.6.1 NR Band5 Output Power

### N5-ANT0 Full power(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 165300 | 167300 | 169300 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 826.5  | 836.5  | 846.5  |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.23  | 22.25  | 22.20  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 165800 | 167300 | 168800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 829    | 836.5  | 844    |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.26  | 22.32  | 22.35  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166300 | 167300 | 168300 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 831.5  | 836.5  | 841.5  |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.40  | 22.28  | 22.44  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166800 | 167300 | 167800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 834    | 836.5  | 839    |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.26  | 22.29  | 22.23  | 24.20             |
|                 |                   | 1       | 53        | 22.25  | 22.25  | 22.26  | 24.20             |
|                 |                   | 1       | 104       | 22.23  | 22.22  | 22.21  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.22  | 22.33  | 22.24  | 24.20             |
|                 |                   | 50      | 28        | 22.20  | 22.32  | 22.32  | 24.20             |
|                 |                   | 50      | 56        | 22.27  | 22.25  | 22.27  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.70  | 21.84  | 21.90  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.29  | 21.34  | 21.23  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.76  | 19.87  | 19.70  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 18.00  | 17.88  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.74  | 20.84  | 20.74  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.23  | 20.43  | 20.51  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.84  | 18.70  | 18.71  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.77     | 15.83  | 15.71  | 17.70  |                   |

**N5-ANT0 State1&2&3&4&6(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 165300 | 167300 | 169300 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 826.5  | 836.5  | 846.5  |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.23  | 22.25  | 22.20  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 165800 | 167300 | 168800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 829    | 836.5  | 844    |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.26  | 22.32  | 22.35  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166300 | 167300 | 168300 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 831.5  | 836.5  | 841.5  |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.40  | 22.28  | 22.44  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166800 | 167300 | 167800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 834    | 836.5  | 839    |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.26  | 22.29  | 22.23  | 24.20             |
|                 |                   | 1       | 53        | 22.25  | 22.25  | 22.26  | 24.20             |
|                 |                   | 1       | 104       | 22.23  | 22.22  | 22.21  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.22  | 22.33  | 22.24  | 24.20             |
|                 |                   | 50      | 28        | 22.20  | 22.32  | 22.32  | 24.20             |
|                 |                   | 50      | 56        | 22.27  | 22.25  | 22.27  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.70  | 21.84  | 21.90  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.29  | 21.34  | 21.23  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.76  | 19.87  | 19.70  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 18.00  | 17.88  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.74  | 20.84  | 20.74  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.23  | 20.43  | 20.51  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.84  | 18.70  | 18.71  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.77     | 15.83  | 15.71  | 17.70  |                   |

## N5-ANT0 State5(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 165300 | 167300 | 169300 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 826.5  | 836.5  | 846.5  |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.23  | 22.25  | 22.20  | 23.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 165800 | 167300 | 168800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 829    | 836.5  | 844    |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.26  | 22.32  | 22.35  | 23.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166300 | 167300 | 168300 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 831.5  | 836.5  | 841.5  |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.40  | 22.28  | 22.44  | 23.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166800 | 167300 | 167800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 834    | 836.5  | 839    |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.26  | 22.29  | 22.23  | 23.20             |
|                 |                   | 1       | 53        | 22.25  | 22.25  | 22.26  | 23.20             |
|                 |                   | 1       | 104       | 22.23  | 22.22  | 22.21  | 23.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.22  | 22.33  | 22.24  | 23.20             |
|                 |                   | 50      | 28        | 22.20  | 22.32  | 22.32  | 23.20             |
|                 |                   | 50      | 56        | 22.27  | 22.25  | 22.27  | 23.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.70  | 21.84  | 21.90  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.29  | 21.34  | 21.23  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.76  | 19.87  | 19.70  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 18.00  | 17.88  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.74  | 20.84  | 20.74  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.23  | 20.43  | 20.51  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.84  | 18.70  | 18.71  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.77     | 15.83  | 15.71  | 17.70  |                   |

## 8.6.1 NR Band5 Output Power

### N5-ANT1 Full power(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 165300 | 167300 | 169300 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 826.5  | 836.5  | 846.5  |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.67  | 22.49  | 22.43  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 165800 | 167300 | 168800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 829    | 836.5  | 844    |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.63  | 22.53  | 22.30  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166300 | 167300 | 168300 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 831.5  | 836.5  | 841.5  |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.44  | 22.33  | 22.65  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166800 | 167300 | 167800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 834    | 836.5  | 839    |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.32  | 22.51  | 22.25  | 24.20             |
|                 |                   | 1       | 53        | 22.42  | 22.23  | 22.50  | 24.20             |
|                 |                   | 1       | 104       | 22.42  | 22.37  | 22.35  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.47  | 22.89  | 22.51  | 24.20             |
|                 |                   | 50      | 28        | 22.56  | 22.40  | 22.24  | 24.20             |
|                 |                   | 50      | 56        | 22.58  | 22.36  | 22.68  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.51  | 21.60  | 21.74  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.92  | 21.46  | 21.76  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.03  | 19.75  | 20.20  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 17.89  | 18.06  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.24  | 20.92  | 21.32  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.32  | 20.25  | 20.34  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.09  | 18.70  | 18.70  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.24     | 15.83  | 16.15  | 17.70  |                   |

**N5-ANT0 State1&3&5(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 165300 | 167300 | 169300 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offest | 826.5  | 836.5  | 846.5  |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.67  | 22.49  | 22.43  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 165800 | 167300 | 168800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offest | 829    | 836.5  | 844    |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.63  | 22.53  | 22.30  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166300 | 167300 | 168300 | Tune-up power(dB) |
|                 |                   | RB Size | RB offest | 831.5  | 836.5  | 841.5  |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.44  | 22.33  | 22.65  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166800 | 167300 | 167800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offest | 834    | 836.5  | 839    |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.32  | 22.51  | 22.25  | 24.20             |
|                 |                   | 1       | 53        | 22.42  | 22.23  | 22.50  | 24.20             |
|                 |                   | 1       | 104       | 22.42  | 22.37  | 22.35  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.47  | 22.89  | 22.51  | 24.20             |
|                 |                   | 50      | 28        | 22.56  | 22.40  | 22.24  | 24.20             |
|                 |                   | 50      | 56        | 22.58  | 22.36  | 22.68  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.51  | 21.60  | 21.74  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.92  | 21.46  | 21.76  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.03  | 19.75  | 20.20  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 17.89  | 18.06  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.24  | 20.92  | 21.32  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.32  | 20.25  | 20.34  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.09  | 18.70  | 18.70  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.24     | 15.83  | 16.15  | 17.70  |                   |

**N5-ANT0 State2&4&6(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 165300 | 167300 | 169300 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 826.5  | 836.5  | 846.5  |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.67  | 22.49  | 22.43  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 165800 | 167300 | 168800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 829    | 836.5  | 844    |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.63  | 22.53  | 22.30  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166300 | 167300 | 168300 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 831.5  | 836.5  | 841.5  |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.44  | 22.33  | 22.65  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 166800 | 167300 | 167800 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 834    | 836.5  | 839    |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.32  | 22.51  | 22.25  | 23.70             |
|                 |                   | 1       | 53        | 22.42  | 22.23  | 22.50  | 23.70             |
|                 |                   | 1       | 104       | 22.42  | 22.37  | 22.35  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.47  | 22.89  | 22.51  | 23.70             |
|                 |                   | 50      | 28        | 22.56  | 22.40  | 22.24  | 23.70             |
|                 |                   | 50      | 56        | 22.58  | 22.36  | 22.68  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.51  | 21.60  | 21.74  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.92  | 21.46  | 21.76  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.03  | 19.75  | 20.20  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 17.89  | 18.06  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.24  | 20.92  | 21.32  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.32  | 20.25  | 20.34  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.09  | 18.70  | 18.70  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.24     | 15.83  | 16.15  | 17.70  |                   |

## 8.6.2 NR Band7 Output Power

### N7-ANT3 Full power(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.60  | 22.68  | 22.65  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.45  | 23.43  | 23.45  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.53  | 23.57  | 23.63  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.01  | 22.20  | 22.06  | 23.70             |
|                 |                   | 1       | 53        | 22.12  | 22.18  | 21.98  | 23.70             |
|                 |                   | 1       | 104       | 22.00  | 22.00  | 22.15  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 21.99  | 22.37  | 22.18  | 23.70             |
|                 |                   | 50      | 28        | 22.29  | 22.27  | 22.10  | 23.70             |
|                 |                   | 50      | 56        | 22.11  | 22.17  | 22.13  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 22.12  | 22.21  | 22.27  | 22.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.67  | 21.82  | 22.02  | 22.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.98  | 20.84  | 20.99  | 21.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 19.09  | 19.11  | 19.16  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.97  | 22.09  | 22.09  | 22.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.60  | 21.66  | 21.68  | 21.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 20.11  | 20.16  | 20.13  | 20.20             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.80  | 16.94  | 16.83  | 17.20             |



## N7-ANT3 State1&amp;3(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 17.56  | 17.68  | 17.72  | 18.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 17.43  | 17.72  | 17.61  | 18.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 17.35  | 17.72  | 17.85  | 18.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504000 | 507000 | 510000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2520   | 2535   | 2550   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 17.54  | 17.53  | 17.65  | 18.20             |
|                 |                   | 1       | 53        | 17.68  | 17.76  | 17.77  | 18.20             |
|                 |                   | 1       | 104       | 17.47  | 17.57  | 17.63  | 18.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 17.65  | 17.70  | 17.65  | 18.20             |
|                 |                   | 50      | 28        | 17.77  | 17.75  | 17.88  | 18.20             |
|                 |                   | 50      | 56        | 17.66  | 17.72  | 17.57  | 18.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 17.55  | 17.74  | 17.91  | 18.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 17.31  | 17.36  | 17.35  | 18.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 17.76  | 17.70  | 17.75  | 18.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.07  | 17.93  | 17.93  | 18.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 17.48  | 17.59  | 17.79  | 18.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 17.94  | 17.89  | 17.73  | 18.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 17.56  | 17.68  | 17.66  | 18.20             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.78  | 16.91  | 16.76  | 17.20             |

## N7-ANT3 State2&amp;4&amp;6(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.60  | 22.68  | 22.65  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.45  | 23.43  | 23.45  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.53  | 23.57  | 23.63  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.01  | 22.20  | 22.06  | 23.70             |
|                 |                   | 1       | 53        | 22.12  | 22.18  | 21.98  | 23.70             |
|                 |                   | 1       | 104       | 22.00  | 22.00  | 22.15  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 21.99  | 22.37  | 22.18  | 23.70             |
|                 |                   | 50      | 28        | 22.29  | 22.27  | 22.10  | 23.70             |
|                 |                   | 50      | 56        | 22.11  | 22.17  | 22.13  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 22.12  | 22.21  | 22.27  | 22.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.67  | 21.82  | 22.02  | 22.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.98  | 20.84  | 20.99  | 21.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 19.09  | 19.11  | 19.16  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.97  | 22.09  | 22.09  | 22.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.60  | 21.66  | 21.68  | 21.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 20.11  | 20.16  | 20.13  | 20.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.80     | 16.94  | 16.83  | 17.20  |                   |

## N7-ANT3 State5(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 14.38  | 14.56  | 14.38  | 15.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 14.31  | 14.73  | 14.42  | 15.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 14.55  | 14.72  | 14.25  | 15.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504000 | 507000 | 510000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2520   | 2535   | 2550   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 14.31  | 14.75  | 14.50  | 15.20             |
|                 |                   | 1       | 53        | 14.62  | 14.56  | 14.68  | 15.20             |
|                 |                   | 1       | 104       | 14.46  | 14.56  | 14.52  | 15.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 14.62  | 14.93  | 14.51  | 15.20             |
|                 |                   | 50      | 28        | 14.68  | 14.76  | 14.90  | 15.20             |
|                 |                   | 50      | 56        | 14.58  | 14.71  | 14.62  | 15.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 14.88  | 14.69  | 14.86  | 15.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 14.40  | 14.28  | 14.39  | 15.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 14.27  | 14.35  | 14.54  | 15.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 14.65  | 14.74  | 14.83  | 15.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 14.61  | 14.55  | 14.47  | 15.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 14.57  | 14.72  | 14.67  | 15.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 14.68  | 14.61  | 14.74  | 15.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 14.16     | 14.36  | 14.45  | 15.20  |                   |

## 8.6.2 NR Band7 Output Power

### N7-ANT1 Full power(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.10  | 22.17  | 22.22  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.40  | 22.12  | 21.80  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.41  | 22.32  | 22.00  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.30  | 22.43  | 22.10  | 23.70             |
|                 |                   | 1       | 53        | 22.33  | 22.36  | 22.18  | 23.70             |
|                 |                   | 1       | 104       | 22.19  | 22.29  | 22.14  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.26  | 22.32  | 22.28  | 23.70             |
|                 |                   | 50      | 28        | 22.18  | 22.12  | 22.28  | 23.70             |
|                 |                   | 50      | 56        | 22.16  | 22.19  | 22.16  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.60  | 21.43  | 21.47  | 22.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 20.73  | 20.89  | 20.71  | 22.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.31  | 19.38  | 19.37  | 21.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.79  | 17.89  | 18.08  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.26  | 20.38  | 20.26  | 22.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.47  | 20.28  | 20.36  | 21.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.37  | 18.46  | 18.59  | 20.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.47     | 15.38  | 15.29  | 17.20  |                   |

**N7-ANT1 State1&2&3&4&6(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.10  | 22.17  | 22.22  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.40  | 22.12  | 21.80  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.41  | 22.32  | 22.00  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.30  | 22.43  | 22.10  | 23.70             |
|                 |                   | 1       | 53        | 22.33  | 22.36  | 22.18  | 23.70             |
|                 |                   | 1       | 104       | 22.19  | 22.29  | 22.14  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.26  | 22.32  | 22.28  | 23.70             |
|                 |                   | 50      | 28        | 22.18  | 22.12  | 22.28  | 23.70             |
|                 |                   | 50      | 56        | 22.16  | 22.19  | 22.16  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.60  | 21.43  | 21.47  | 22.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 20.73  | 20.89  | 20.71  | 22.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.31  | 19.38  | 19.37  | 21.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.79  | 17.89  | 18.08  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.26  | 20.38  | 20.26  | 22.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.47  | 20.28  | 20.36  | 21.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.37  | 18.46  | 18.59  | 20.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.47     | 15.38  | 15.29  | 17.20  |                   |

**N7-ANT1 State5(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 21.35  | 21.54  | 21.26  | 22.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 21.17  | 21.19  | 21.12  | 22.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 21.22  | 21.39  | 21.32  | 22.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504000 | 507000 | 510000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2520   | 2535   | 2550   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 21.53  | 21.62  | 21.34  | 22.20             |
|                 |                   | 1       | 53        | 21.39  | 21.49  | 21.38  | 22.20             |
|                 |                   | 1       | 104       | 21.46  | 21.28  | 21.42  | 22.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 21.43  | 21.50  | 21.41  | 22.20             |
|                 |                   | 50      | 28        | 21.45  | 21.42  | 21.22  | 22.20             |
|                 |                   | 50      | 56        | 21.49  | 21.38  | 21.34  | 22.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.48  | 21.43  | 21.29  | 22.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 20.56  | 20.54  | 20.34  | 22.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.34  | 19.38  | 19.56  | 21.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.89  | 17.69  | 17.65  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.33  | 20.37  | 20.26  | 22.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.07  | 20.19  | 20.14  | 21.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.43  | 18.58  | 18.68  | 20.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.43     | 15.28  | 15.35  | 17.20  |                   |

## 8.6.2 NR Band7 Output Power

### N7-ANT4 Full power(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.79  | 22.69  | 22.48  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.62  | 22.48  | 22.23  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.73  | 22.55  | 22.42  | 23.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.75  | 22.60  | 22.48  | 23.70             |
|                 |                   | 1       | 53        | 22.80  | 22.73  | 22.49  | 23.70             |
|                 |                   | 1       | 104       | 22.65  | 22.51  | 22.34  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.34  | 22.20  | 22.30  | 23.70             |
|                 |                   | 50      | 28        | 22.93  | 22.76  | 22.91  | 23.70             |
|                 |                   | 50      | 56        | 22.29  | 22.19  | 22.22  | 23.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 22.33  | 22.22  | 22.32  | 22.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.29  | 21.32  | 21.22  | 22.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.93  | 19.90  | 20.08  | 21.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.32  | 18.45  | 18.62  | 19.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.97  | 21.15  | 21.31  | 22.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.81  | 20.91  | 20.79  | 21.70             |
| CP-OFDM 64QAM   | 1                 | 1       | 19.23     | 19.22  | 19.40  | 20.20  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 16.06     | 16.03  | 16.15  | 17.20  |                   |

### N7-ANT4 State1(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 17.72  | 17.95  | 17.75  | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 17.50  | 17.51  | 17.78  | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 17.60  | 17.63  | 17.60  | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502000 | 507000 | 512000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2510   | 2535   | 2560   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 17.67  | 17.77  | 17.56  | 18.70             |
|                 |                   | 1       | 53        | 17.46  | 17.48  | 17.68  | 18.70             |
|                 |                   | 1       | 104       | 17.41  | 17.51  | 17.52  | 18.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 17.85  | 17.87  | 17.80  | 18.70             |
|                 |                   | 50      | 28        | 17.72  | 17.80  | 17.74  | 18.70             |
|                 |                   | 50      | 56        | 17.76  | 17.70  | 17.81  | 18.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 17.57  | 17.72  | 17.80  | 18.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 17.09  | 17.25  | 17.21  | 18.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 17.34  | 17.26  | 17.26  | 18.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.95  | 17.89  | 18.08  | 18.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 17.63  | 17.53  | 17.63  | 18.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 17.81  | 17.83  | 17.74  | 18.70             |
| CP-OFDM 64QAM   | 1                 | 1       | 17.74     | 17.60  | 17.63  | 18.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 15.94     | 15.96  | 16.15  | 17.20  |                   |



### N7-ANT4 State2&4(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 16.35  | 16.29  | 16.42  | 17.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 16.49  | 16.34  | 16.42  | 17.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 16.37  | 16.53  | 16.40  | 17.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504000 | 507000 | 510000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2520   | 2535   | 2550   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 16.55  | 16.35  | 16.31  | 17.20             |
|                 |                   | 1       | 53        | 16.52  | 16.62  | 16.67  | 17.20             |
|                 |                   | 1       | 104       | 16.17  | 16.34  | 16.30  | 17.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 16.28  | 16.42  | 16.41  | 17.20             |
|                 |                   | 50      | 28        | 16.54  | 16.62  | 16.49  | 17.20             |
|                 |                   | 50      | 56        | 16.56  | 16.67  | 16.76  | 17.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 16.60  | 16.80  | 16.92  | 17.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 16.62  | 16.52  | 16.44  | 17.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 16.68  | 16.52  | 16.56  | 17.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 16.19  | 16.36  | 16.16  | 17.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 16.26  | 16.45  | 16.62  | 17.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 16.45  | 16.39  | 16.36  | 17.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 16.26  | 16.42  | 16.58  | 17.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.84     | 16.00  | 16.17  | 17.20  |                   |

### N7-ANT4 State3&5(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 15.02  | 15.12  | 14.98  | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 15.12  | 15.09  | 15.17  | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 15.31  | 15.05  | 14.95  | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504000 | 507000 | 510000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2520   | 2535   | 2550   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 15.02  | 15.08  | 15.06  | 15.70             |
|                 |                   | 1       | 53        | 15.12  | 15.23  | 15.20  | 15.70             |
|                 |                   | 1       | 104       | 15.02  | 14.98  | 15.03  | 15.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 15.33  | 15.16  | 15.33  | 15.70             |
|                 |                   | 50      | 28        | 15.29  | 15.27  | 15.25  | 15.70             |
|                 |                   | 50      | 56        | 15.14  | 15.12  | 15.05  | 15.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 15.22  | 15.23  | 15.30  | 15.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 14.72  | 14.90  | 14.93  | 15.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 15.04  | 14.89  | 14.98  | 15.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 15.45  | 15.26  | 15.23  | 15.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 15.05  | 15.12  | 15.32  | 15.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 15.51  | 15.40  | 15.59  | 15.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 15.14  | 15.18  | 15.01  | 15.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 14.78     | 14.92  | 14.80  | 15.70  |                   |

**N7-ANT4 State6(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 500500 | 507000 | 513500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 2502.5 | 2535   | 2567.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 14.78  | 14.89  | 14.90  | 15.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501000 | 507000 | 513000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2505   | 2535   | 2565   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 14.88  | 14.75  | 14.53  | 15.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 501500 | 507000 | 512500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2507.5 | 2535   | 2562.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 14.89  | 14.68  | 14.61  | 15.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504000 | 507000 | 510000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2520   | 2535   | 2550   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 14.62  | 14.63  | 14.58  | 15.20             |
|                 |                   | 1       | 53        | 14.59  | 14.58  | 14.60  | 15.20             |
|                 |                   | 1       | 104       | 14.54  | 14.49  | 14.39  | 15.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 14.59  | 14.79  | 14.63  | 15.20             |
|                 |                   | 50      | 28        | 14.73  | 14.70  | 14.73  | 15.20             |
|                 |                   | 50      | 56        | 14.48  | 14.68  | 14.60  | 15.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 14.52  | 14.72  | 14.72  | 15.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 14.55  | 14.39  | 14.43  | 15.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 14.36  | 14.45  | 14.47  | 15.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 14.78  | 14.85  | 14.77  | 15.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 14.66  | 14.62  | 14.51  | 15.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 14.70  | 14.90  | 14.76  | 15.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 14.72  | 14.68  | 14.52  | 15.20             |
| CP-OFDM 256QAM  | 1                 | 1       | 14.34     | 14.42  | 14.33  | 15.20  |                   |

### 8.6.3 NR Band41 Output Power

#### N41-ANT3 Full power(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 23.38   | 23.48   | 23.48   | 23.48   | 23.36   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 22.51   | 22.75   | 22.75   | 22.92   | 22.74   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 22.45   | 22.62   | 22.81   | 22.65   | 22.56   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 22.68   | 22.72   | 22.60   | 22.86   | 22.39   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 22.85   | 22.74   | 22.58   | 22.85   | 22.52   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 22.59   | 22.81   | 22.70   | 22.75   | 22.64   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 22.65   | 22.82   | 22.71   | 23.03   | 22.63   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 22.74   | 22.61   | 22.58   | 23.05   | 22.65   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 22.57   | 22.70   | 23.28   | 22.67   | 22.65   | 24.20             |
|                 |                   | 1       | 137       | 22.85   | 22.74   | 22.85   | 23.17   | 23.24   | 24.20             |
|                 |                   | 1       | 271       | 22.79   | 22.76   | 22.70   | 22.63   | 22.65   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 22.90   | 23.11   | 23.66   | 23.08   | 23.19   | 24.20             |
|                 |                   | 135     | 69        | 23.55   | 22.81   | 23.45   | 23.57   | 23.16   | 24.20             |
|                 |                   | 135     | 138       | 22.74   | 23.10   | 22.93   | 22.98   | 23.12   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 22.90   | 23.00   | 22.96   | 22.94   | 22.92   | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.54   | 21.49   | 21.40   | 21.51   | 21.58   | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.11   | 20.11   | 19.98   | 20.10   | 20.06   | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.53   | 18.38   | 18.54   | 18.48   | 18.67   | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.07   | 21.16   | 21.21   | 21.10   | 21.09   | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.03   | 20.85   | 20.95   | 21.02   | 21.04   | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.26   | 19.10   | 19.27   | 19.43   | 19.17   | 20.70             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.11   | 16.36   | 16.29   | 16.29   | 16.39   | 17.70             |

## N41-ANT3 State1&amp;3(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 18.03   | 18.08   | 18.01   | 17.95   | 18.06   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 17.24   | 17.13   | 17.62   | 17.35   | 17.18   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 17.45   | 17.34   | 17.60   | 17.45   | 17.33   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 17.24   | 17.06   | 17.31   | 17.42   | 17.16   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 17.38   | 17.22   | 17.35   | 17.58   | 17.25   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 17.42   | 17.33   | 17.43   | 17.47   | 17.28   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 17.39   | 17.19   | 17.46   | 17.54   | 17.34   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 17.35   | 17.12   | 17.39   | 17.42   | 17.16   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 17.42   | 17.38   | 18.16   | 17.51   | 17.48   | 18.70             |
|                 |                   | 1       | 137       | 18.08   | 18.09   | 18.15   | 17.44   | 18.10   | 18.70             |
|                 |                   | 1       | 271       | 17.52   | 17.50   | 17.46   | 17.43   | 17.45   | 18.70             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 17.99   | 18.19   | 18.34   | 18.12   | 18.10   | 18.70             |
|                 |                   | 135     | 69        | 18.20   | 18.17   | 18.16   | 17.96   | 18.04   | 18.70             |
|                 |                   | 135     | 138       | 18.15   | 17.94   | 18.00   | 17.85   | 18.20   | 18.70             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 18.11   | 17.84   | 18.03   | 17.95   | 17.91   | 18.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 17.16   | 17.02   | 17.22   | 17.48   | 17.35   | 18.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 17.35   | 17.41   | 17.38   | 17.34   | 17.39   | 18.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.61   | 17.83   | 17.80   | 17.84   | 17.83   | 18.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 17.63   | 17.58   | 17.49   | 17.53   | 17.65   | 18.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 17.70   | 17.86   | 17.71   | 17.88   | 17.88   | 18.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 17.55   | 17.49   | 17.53   | 17.40   | 17.45   | 18.70             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.10   | 16.40   | 16.26   | 16.18   | 16.27   | 17.70             |

## N41-ANT3 State2&amp;4&amp;6(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 23.38   | 23.48   | 23.48   | 23.48   | 23.36   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 22.51   | 22.75   | 22.75   | 22.92   | 22.74   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 22.45   | 22.62   | 22.81   | 22.65   | 22.56   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 22.68   | 22.72   | 22.60   | 22.86   | 22.39   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 22.85   | 22.74   | 22.58   | 22.85   | 22.52   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 22.59   | 22.81   | 22.70   | 22.75   | 22.64   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 22.65   | 22.82   | 22.71   | 23.03   | 22.63   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 22.74   | 22.61   | 22.58   | 23.05   | 22.65   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 22.57   | 22.70   | 23.28   | 22.67   | 22.65   | 24.20             |
|                 |                   | 1       | 137       | 22.85   | 22.74   | 22.85   | 23.17   | 23.24   | 24.20             |
|                 |                   | 1       | 271       | 22.79   | 22.76   | 22.70   | 22.63   | 22.65   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 22.90   | 23.11   | 23.66   | 23.08   | 23.19   | 24.20             |
|                 |                   | 135     | 69        | 23.55   | 22.81   | 23.45   | 23.57   | 23.16   | 24.20             |
|                 |                   | 135     | 138       | 22.74   | 23.10   | 22.93   | 22.98   | 23.12   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 22.90   | 23.00   | 22.96   | 22.94   | 22.92   | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.54   | 21.49   | 21.40   | 21.51   | 21.58   | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.11   | 20.11   | 19.98   | 20.10   | 20.06   | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.53   | 18.38   | 18.54   | 18.48   | 18.67   | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.07   | 21.16   | 21.21   | 21.10   | 21.09   | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.03   | 20.85   | 20.95   | 21.02   | 21.04   | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.26   | 19.10   | 19.27   | 19.43   | 19.17   | 20.70             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 16.11   | 16.36   | 16.29   | 16.29   | 16.39   | 17.70             |

N41-ANT3 State5(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 14.60   | 14.57   | 14.25   | 14.62   | 14.52   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 14.37   | 14.67   | 14.25   | 14.41   | 14.70   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 14.20   | 14.41   | 14.50   | 14.34   | 14.74   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 14.24   | 14.61   | 14.46   | 14.44   | 14.66   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 14.12   | 14.62   | 14.18   | 14.69   | 14.56   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 14.24   | 14.59   | 14.52   | 14.42   | 14.67   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 14.23   | 14.68   | 14.27   | 14.46   | 14.47   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 13.97   | 14.37   | 14.37   | 14.54   | 14.68   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 14.36   | 14.42   | 14.46   | 14.46   | 14.43   | 15.70             |
|                 |                   | 1       | 137       | 15.06   | 15.09   | 15.11   | 15.14   | 15.10   | 15.70             |
|                 |                   | 1       | 271       | 14.49   | 14.48   | 14.47   | 14.36   | 14.46   | 15.70             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 15.00   | 15.16   | 15.02   | 15.11   | 15.10   | 15.70             |
|                 |                   | 135     | 69        | 15.06   | 15.10   | 15.16   | 15.12   | 15.09   | 15.70             |
|                 |                   | 135     | 138       | 14.78   | 14.86   | 14.91   | 14.93   | 14.91   | 15.70             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 14.77   | 14.92   | 14.92   | 14.92   | 15.02   | 15.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 14.33   | 14.26   | 14.16   | 14.13   | 14.11   | 15.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 14.33   | 14.35   | 14.16   | 14.07   | 13.96   | 15.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 14.11   | 14.07   | 14.25   | 14.31   | 14.09   | 15.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 14.25   | 14.21   | 14.40   | 14.54   | 14.35   | 15.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 14.05   | 14.24   | 14.13   | 14.21   | 14.22   | 15.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 14.23   | 14.36   | 14.23   | 14.07   | 14.29   | 15.70             |
|                 | CP-OFDM 256QAM    | 1       | 1         | 14.67   | 14.78   | 14.62   | 14.82   | 14.52   | 15.70             |

### 8.6.3 NR Band41 Output Power

#### N41-ANT4 Full power(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.60   | 22.36   | 22.43   | 22.32   | 22.40   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 22.78   | 22.68   | 22.75   | 22.70   | 22.63   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 22.66   | 22.80   | 22.47   | 22.59   | 22.58   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 22.82   | 22.71   | 22.72   | 22.59   | 22.27   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 22.66   | 22.52   | 22.42   | 22.67   | 22.40   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 22.76   | 22.68   | 22.50   | 22.53   | 22.59   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 22.74   | 22.42   | 22.72   | 22.43   | 22.39   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 22.61   | 22.51   | 22.53   | 22.38   | 22.34   | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 22.59   | 22.41   | 22.32   | 22.43   | 22.28   | 24.20             |
|                 |                   | 1       | 137       | 22.42   | 22.61   | 22.85   | 22.62   | 22.46   | 24.20             |
|                 |                   | 1       | 271       | 22.32   | 22.49   | 22.56   | 22.40   | 22.36   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 23.23   | 22.97   | 22.38   | 23.09   | 22.97   | 24.20             |
|                 |                   | 135     | 69        | 22.71   | 22.95   | 22.87   | 22.76   | 22.99   | 24.20             |
|                 |                   | 135     | 138       | 22.46   | 22.54   | 22.34   | 22.44   | 22.47   | 24.20             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 21.60   | 21.45   | 21.48   | 21.34   | 21.62   | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.23   | 21.29   | 21.37   | 21.38   | 21.32   | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.92   | 20.10   | 19.93   | 19.81   | 20.08   | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.36   | 18.30   | 18.19   | 18.07   | 18.22   | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.87   | 20.74   | 20.84   | 20.74   | 20.94   | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.48   | 20.75   | 20.59   | 20.43   | 20.40   | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.85   | 18.85   | 18.90   | 18.94   | 18.70   | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.89     | 15.92   | 15.92   | 16.02   | 16.04   | 17.70   |                   |



## N41-ANT4 State1(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 17.98   | 17.93   | 18.06   | 18.16   | 17.86   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 17.51   | 17.56   | 17.51   | 17.35   | 17.30   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 17.53   | 17.55   | 17.67   | 17.50   | 17.10   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 17.80   | 17.58   | 17.45   | 17.57   | 17.31   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 17.54   | 17.79   | 17.40   | 17.54   | 17.13   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 17.48   | 17.50   | 17.61   | 17.63   | 17.37   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 17.82   | 17.51   | 17.50   | 17.34   | 17.26   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 17.51   | 17.76   | 17.38   | 17.62   | 17.17   | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 17.79   | 17.65   | 18.07   | 17.35   | 17.15   | 18.70             |
|                 |                   | 1       | 137       | 17.87   | 18.05   | 18.05   | 17.92   | 17.81   | 18.70             |
|                 |                   | 1       | 271       | 17.26   | 17.02   | 17.20   | 17.05   | 16.94   | 18.70             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 17.93   | 17.97   | 18.15   | 18.14   | 17.94   | 18.70             |
|                 |                   | 135     | 69        | 18.12   | 18.11   | 18.07   | 18.08   | 18.05   | 18.70             |
|                 |                   | 135     | 138       | 17.46   | 17.65   | 17.66   | 17.61   | 17.78   | 18.70             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 17.68   | 17.85   | 17.83   | 17.99   | 17.68   | 18.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 17.50   | 17.25   | 17.33   | 17.22   | 17.30   | 18.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 17.23   | 17.38   | 17.36   | 17.16   | 17.53   | 18.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.64   | 17.58   | 17.46   | 17.43   | 17.27   | 18.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 17.50   | 17.47   | 17.55   | 17.54   | 17.74   | 18.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 17.92   | 17.61   | 17.80   | 17.73   | 17.94   | 18.70             |
| CP-OFDM 64QAM   | 1                 | 1       | 17.44     | 17.82   | 17.63   | 17.75   | 17.47   | 18.70   |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 16.21     | 15.99   | 16.15   | 15.99   | 16.16   | 17.70   |                   |

## N41-ANT4 State2&amp;4(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 15.68   | 15.55   | 15.62   | 15.80   | 15.48   | 16.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 15.55   | 15.50   | 15.73   | 15.64   | 15.48   | 16.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 15.79   | 15.53   | 15.97   | 15.66   | 15.51   | 16.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 15.76   | 15.41   | 15.96   | 15.79   | 15.53   | 16.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 15.47   | 15.59   | 15.78   | 15.73   | 15.48   | 16.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 15.81   | 15.62   | 15.99   | 15.56   | 15.69   | 16.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 15.61   | 15.53   | 15.97   | 15.59   | 15.54   | 16.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 15.72   | 15.36   | 15.98   | 15.49   | 15.49   | 16.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 15.46   | 15.35   | 15.80   | 15.42   | 15.49   | 16.20             |
|                 |                   | 1       | 137       | 15.18   | 15.73   | 15.37   | 15.27   | 15.28   | 16.20             |
|                 |                   | 1       | 271       | 14.89   | 15.27   | 14.96   | 14.59   | 14.20   | 16.20             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 15.66   | 15.64   | 15.69   | 15.47   | 15.65   | 16.20             |
|                 |                   | 135     | 69        | 15.75   | 15.52   | 15.76   | 15.59   | 15.63   | 16.20             |
|                 |                   | 135     | 138       | 14.98   | 15.14   | 15.33   | 15.22   | 15.24   | 16.20             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 15.30   | 15.43   | 15.55   | 15.34   | 15.18   | 16.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 15.12   | 15.12   | 14.91   | 14.83   | 15.20   | 16.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 14.96   | 14.85   | 14.87   | 15.11   | 15.09   | 16.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 15.58   | 15.18   | 15.53   | 15.40   | 15.48   | 16.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 15.16   | 15.41   | 15.32   | 15.30   | 14.83   | 16.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 15.51   | 15.70   | 15.39   | 15.60   | 15.23   | 16.20             |
| CP-OFDM 64QAM   | 1                 | 1       | 15.29     | 15.27   | 15.04   | 15.11   | 15.39   | 16.20   |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 15.12     | 14.98   | 14.94   | 15.07   | 14.95   | 16.20   |                   |

## N41-ANT4 State3&amp;5(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 14.85   | 14.76   | 14.77   | 14.74   | 14.72   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 15.09   | 14.79   | 14.66   | 14.63   | 14.39   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 14.99   | 15.05   | 14.75   | 14.66   | 14.33   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 15.38   | 14.72   | 14.78   | 14.92   | 14.44   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 15.28   | 15.02   | 14.67   | 14.95   | 14.67   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 15.34   | 14.99   | 14.98   | 14.94   | 14.52   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 15.38   | 14.97   | 14.80   | 14.87   | 14.40   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 15.16   | 14.95   | 14.92   | 14.61   | 14.38   | 15.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 15.10   | 14.74   | 15.50   | 14.60   | 14.52   | 15.70             |
|                 |                   | 1       | 137       | 14.82   | 15.23   | 15.19   | 14.91   | 14.85   | 15.70             |
|                 |                   | 1       | 271       | 14.52   | 14.80   | 14.74   | 14.05   | 13.93   | 15.70             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 15.28   | 15.18   | 15.48   | 15.28   | 15.22   | 15.70             |
|                 |                   | 135     | 69        | 15.26   | 15.18   | 15.24   | 15.25   | 15.09   | 15.70             |
|                 |                   | 135     | 138       | 14.75   | 14.79   | 14.88   | 15.08   | 14.75   | 15.70             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 14.96   | 14.96   | 15.02   | 14.99   | 14.86   | 15.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 14.69   | 14.73   | 14.63   | 14.61   | 14.80   | 15.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 14.70   | 14.62   | 14.67   | 14.67   | 14.75   | 15.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 15.12   | 15.02   | 15.08   | 15.02   | 15.12   | 15.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 14.93   | 14.90   | 14.84   | 14.87   | 14.68   | 15.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 15.21   | 15.25   | 15.05   | 15.11   | 15.01   | 15.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 14.76   | 14.94   | 14.86   | 14.88   | 14.93   | 15.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 14.77     | 14.62   | 14.66   | 14.79   | 14.65   | 15.70   |                   |

## N41-ANT4 State6(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 501204  | 509904  | 518598  | 527298  | 535998  | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|---------|---------|---------|---------|---------|-------------------|
|                 |                   | RB Size | RB offset | 2506.02 | 2549.52 | 2592.99 | 2636.49 | 2679.99 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 12.89   | 12.72   | 12.68   | 12.81   | 12.85   | 13.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 502200  | 510398  | 518598  | 526798  | 534996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2511    | 2551.99 | 2592.99 | 2633.99 | 2674.98 |                   |
| 30              | DFT-s-OFDM QPSK   | 1       | 1         | 12.78   | 13.14   | 12.91   | 12.98   | 12.50   | 13.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 503202  | 510900  | 518598  | 526302  | 534000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2516.01 | 2554.5  | 2592.99 | 2631.5  | 2670    |                   |
| 40              | DFT-s-OFDM QPSK   | 1       | 1         | 12.89   | 12.89   | 12.87   | 12.81   | 12.57   | 13.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 504204  | 511404  | 518598  | 525798  | 532998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2521.02 | 2557.02 | 2592.99 | 2628.99 | 2664.99 |                   |
| 50              | DFT-s-OFDM QPSK   | 1       | 1         | 12.89   | 13.20   | 12.78   | 12.87   | 12.37   | 13.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 505200  | 511902  | 518598  | 525300  | 531996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2526    | 2559.51 | 2592.99 | 2626.5  | 2659.98 |                   |
| 60              | DFT-s-OFDM QPSK   | 1       | 1         | 13.09   | 12.95   | 12.63   | 12.61   | 12.46   | 13.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 506202  | 512404  | 518598  | 524798  | 531000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2531.01 | 2562.02 | 2592.99 | 2623.99 | 2655    |                   |
| 70              | DFT-s-OFDM QPSK   | 1       | 1         | 12.88   | 13.18   | 12.85   | 12.76   | 12.45   | 13.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 507204  | 512904  | 518598  | 524298  | 529998  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2536.02 | 2564.52 | 2592.99 | 2621.49 | 2649.99 |                   |
| 80              | DFT-s-OFDM QPSK   | 1       | 1         | 12.73   | 12.92   | 12.63   | 12.88   | 12.33   | 13.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 508200  | 513402  | 518598  | 523800  | 528996  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2541    | 2567.01 | 2592.99 | 2619    | 2644.98 |                   |
| 90              | DFT-s-OFDM QPSK   | 1       | 1         | 12.87   | 12.96   | 12.97   | 12.90   | 12.33   | 13.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 509202  | 513900  | 518598  | 523302  | 528000  | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 2546.01 | 2569.5  | 2592.99 | 2616.51 | 2640    |                   |
| 100             | DFT-s-OFDM QPSK   | 1       | 1         | 12.95   | 12.93   | 12.80   | 12.68   | 12.46   | 13.20             |
|                 |                   | 1       | 137       | 13.05   | 13.02   | 13.10   | 12.94   | 12.78   | 13.20             |
|                 |                   | 1       | 271       | 12.35   | 12.34   | 12.16   | 11.98   | 11.92   | 13.20             |
|                 | DFT-s-OFDM QPSK   | 135     | 0         | 13.16   | 12.94   | 13.02   | 12.84   | 13.01   | 13.20             |
|                 |                   | 135     | 69        | 13.13   | 12.97   | 13.04   | 13.14   | 13.00   | 13.20             |
|                 |                   | 135     | 138       | 12.93   | 12.75   | 12.78   | 12.75   | 12.91   | 13.20             |
|                 | DFT-s-OFDM QPSK   | 270     | 0         | 12.93   | 12.86   | 12.95   | 12.75   | 13.09   | 13.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 12.44   | 12.41   | 12.54   | 12.56   | 12.74   | 13.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 12.51   | 12.56   | 12.58   | 12.71   | 12.54   | 13.20             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 12.92   | 12.90   | 12.89   | 12.71   | 12.78   | 13.20             |
|                 | CP-OFDM QPSK      | 1       | 1         | 12.72   | 12.62   | 12.77   | 12.62   | 12.66   | 13.20             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 12.70   | 12.83   | 12.90   | 13.01   | 12.85   | 13.20             |
| CP-OFDM 64QAM   | 1                 | 1       | 12.76     | 13.01   | 12.82   | 12.72   | 12.62   | 13.20   |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 12.38     | 12.71   | 12.56   | 12.68   | 12.76   | 13.20   |                   |

## 8.6.4 NR Band66 Output Power

### N66-ANT3 Full power(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 23.43  | 23.39  | 23.32  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.25  | 23.19  | 23.03  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.40  | 23.34  | 23.25  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 23.32  | 23.47  | 23.30  | 24.20             |
|                 |                   | 1       | 53        | 23.27  | 23.43  | 23.35  | 24.20             |
|                 |                   | 1       | 104       | 23.28  | 23.20  | 23.18  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 23.13  | 23.47  | 22.96  | 24.20             |
|                 |                   | 50      | 28        | 23.35  | 23.05  | 23.31  | 24.20             |
|                 |                   | 50      | 56        | 22.89  | 22.99  | 23.00  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 23.06  | 23.06  | 23.12  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.88  | 22.04  | 22.06  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.45  | 20.60  | 20.77  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 19.19  | 19.15  | 19.29  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.65  | 21.84  | 21.65  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.46  | 21.59  | 21.73  | 22.20             |
| CP-OFDM 64QAM   | 1                 | 1       | 20.07     | 19.90  | 20.04  | 20.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 16.49     | 16.53  | 16.60  | 17.70  |                   |

### N66-ANT3 State1&3(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 20.53  | 20.37  | 20.14  | 21.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 20.41  | 20.26  | 20.27  | 21.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 20.44  | 20.33  | 20.18  | 21.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 20.35  | 20.39  | 20.35  | 21.70             |
|                 |                   | 1       | 53        | 20.29  | 20.17  | 20.31  | 21.70             |
|                 |                   | 1       | 104       | 20.21  | 20.17  | 20.21  | 21.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 20.45  | 20.47  | 20.37  | 21.70             |
|                 |                   | 50      | 28        | 20.39  | 20.46  | 20.26  | 21.70             |
|                 |                   | 50      | 56        | 20.44  | 20.43  | 20.34  | 21.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 20.49  | 20.59  | 20.52  | 21.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 19.94  | 19.95  | 19.89  | 21.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.05  | 20.06  | 20.17  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.97  | 19.11  | 19.00  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.27  | 20.27  | 20.47  | 21.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.74  | 20.54  | 20.50  | 21.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 19.70  | 19.87  | 20.05  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.73     | 16.53  | 16.72  | 17.70  |                   |

**N66-ANT3 State2&4&6(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 23.43  | 23.39  | 23.32  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.25  | 23.19  | 23.03  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.40  | 23.34  | 23.25  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 23.32  | 23.47  | 23.30  | 24.20             |
|                 |                   | 1       | 53        | 23.27  | 23.43  | 23.35  | 24.20             |
|                 |                   | 1       | 104       | 23.28  | 23.20  | 23.18  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 23.13  | 23.47  | 22.96  | 24.20             |
|                 |                   | 50      | 28        | 23.35  | 23.05  | 23.31  | 24.20             |
|                 |                   | 50      | 56        | 22.89  | 22.99  | 23.00  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 23.06  | 23.06  | 23.12  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.88  | 22.04  | 22.06  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.45  | 20.60  | 20.77  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 19.19  | 19.15  | 19.29  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.65  | 21.84  | 21.65  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 21.46  | 21.59  | 21.73  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 20.07  | 19.90  | 20.04  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 16.49     | 16.53  | 16.60  | 17.70  |                   |

**N66-ANT3 State5(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 1712.5 | 1745   | 1767.5 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 342500 | 349000 | 353500 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 18.02  | 17.98  | 18.12  | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1715   | 1745   | 1765   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343000 | 349000 | 353000 |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 18.32  | 18.14  | 18.41  | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1717.5 | 1745   | 1762.5 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343500 | 349000 | 352500 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 18.11  | 18.10  | 18.11  | 18.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1730   | 1745   | 1750   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 346000 | 349000 | 350000 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 18.26  | 18.38  | 18.29  | 18.70             |
|                 |                   | 1       | 53        | 18.37  | 18.35  | 18.37  | 18.70             |
|                 |                   | 1       | 104       | 18.29  | 18.13  | 18.16  | 18.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 18.46  | 18.62  | 18.50  | 18.70             |
|                 |                   | 50      | 28        | 18.34  | 18.42  | 18.40  | 18.70             |
|                 |                   | 50      | 56        | 18.17  | 18.30  | 18.40  | 18.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 18.53  | 18.43  | 18.46  | 18.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 17.85  | 17.97  | 17.99  | 18.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 18.16  | 18.10  | 17.91  | 18.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.43  | 18.40  | 18.32  | 18.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 18.31  | 18.25  | 18.22  | 18.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 18.38  | 18.50  | 18.63  | 18.70             |
| CP-OFDM 64QAM   | 1                 | 1       | 18.41     | 18.31  | 18.47  | 18.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 16.56     | 16.54  | 16.37  | 17.70  |                   |



## 8.6.4 NR Band66 Output Power

### N66-ANT1 Full power(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 1712.5 | 1745   | 1767.5 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 342500 | 349000 | 353500 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 23.43  | 23.39  | 23.32  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1715   | 1745   | 1765   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343000 | 349000 | 353000 |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.11  | 23.19  | 23.03  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1717.5 | 1745   | 1762.5 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343500 | 349000 | 352500 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.40  | 23.34  | 23.25  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1720   | 1745   | 1760   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 344000 | 349000 | 352000 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.73  | 22.92  | 22.68  | 24.20             |
|                 |                   | 1       | 53        | 22.75  | 22.74  | 22.72  | 24.20             |
|                 |                   | 1       | 104       | 22.85  | 22.78  | 22.65  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.38  | 22.91  | 22.76  | 24.20             |
|                 |                   | 50      | 28        | 22.63  | 22.80  | 22.58  | 24.20             |
|                 |                   | 50      | 56        | 22.62  | 22.49  | 22.59  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 22.77  | 22.67  | 22.81  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.40  | 21.47  | 21.46  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.03  | 20.01  | 19.89  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.68  | 18.57  | 18.37  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.32  | 21.24  | 21.24  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.87  | 21.00  | 21.06  | 22.20             |
| CP-OFDM 64QAM   | 1                 | 1       | 19.38     | 19.29  | 19.28  | 20.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 16.13     | 15.95  | 16.09  | 17.70  |                   |

**N66-ANT1 State1&2&3&4&6(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 1712.5 | 1745   | 1767.5 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 342500 | 349000 | 353500 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 23.43  | 23.39  | 23.32  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1715   | 1745   | 1765   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343000 | 349000 | 353000 |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 23.25  | 23.19  | 23.03  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1717.5 | 1745   | 1762.5 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343500 | 349000 | 352500 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 23.40  | 23.34  | 23.25  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1720   | 1745   | 1760   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 344000 | 349000 | 352000 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.73  | 22.92  | 22.68  | 24.20             |
|                 |                   | 1       | 53        | 22.75  | 22.74  | 22.72  | 24.20             |
|                 |                   | 1       | 104       | 22.85  | 22.78  | 22.65  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.38  | 22.91  | 22.76  | 24.20             |
|                 |                   | 50      | 28        | 22.63  | 22.80  | 22.58  | 24.20             |
|                 |                   | 50      | 56        | 22.62  | 22.49  | 22.59  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 22.77  | 22.67  | 22.81  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.40  | 21.47  | 21.46  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.03  | 20.01  | 19.89  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.68  | 18.57  | 18.37  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.32  | 21.24  | 21.24  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.87  | 21.00  | 21.06  | 22.20             |
| CP-OFDM 64QAM   | 1                 | 1       | 19.38     | 19.29  | 19.28  | 20.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 16.13     | 15.95  | 16.09  | 17.70  |                   |

**N66-ANT1 State5(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 1712.5 | 1745   | 1767.5 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 342500 | 349000 | 353500 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 21.51  | 21.23  | 21.46  | 21.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1715   | 1745   | 1765   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343000 | 349000 | 353000 |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 21.26  | 21.38  | 21.40  | 21.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1717.5 | 1745   | 1762.5 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343500 | 349000 | 352500 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 20.94  | 21.10  | 21.30  | 21.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1730   | 1745   | 1750   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 346000 | 349000 | 350000 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 21.12  | 21.32  | 21.21  | 21.70             |
|                 |                   | 1       | 53        | 21.21  | 21.29  | 21.20  | 21.70             |
|                 |                   | 1       | 104       | 21.19  | 21.24  | 21.18  | 21.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 21.22  | 21.53  | 21.16  | 21.70             |
|                 |                   | 50      | 28        | 21.34  | 21.34  | 21.32  | 21.70             |
|                 |                   | 50      | 56        | 21.44  | 21.38  | 21.42  | 21.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.35  | 21.40  | 21.44  | 21.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.03  | 20.91  | 20.83  | 21.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 20.09  | 20.01  | 20.05  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 18.69  | 18.53  | 18.58  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 21.05  | 21.24  | 21.30  | 21.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.89  | 21.02  | 21.05  | 21.70             |
| CP-OFDM 64QAM   | 1                 | 1       | 19.25     | 19.29  | 19.11  | 20.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 15.99     | 15.94  | 15.91  | 17.70  |                   |

## 8.6.4 NR Band66 Output Power

### N66-ANT4 Full power(NSA)

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 22.32  | 23.43  | 22.39  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 22.28  | 23.28  | 22.42  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 22.34  | 23.46  | 22.37  | 24.20             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 22.30  | 23.35  | 22.34  | 24.20             |
|                 |                   | 1       | 53        | 22.29  | 22.34  | 22.29  | 24.20             |
|                 |                   | 1       | 104       | 22.26  | 22.32  | 22.42  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 22.31  | 22.40  | 22.32  | 24.20             |
|                 |                   | 50      | 28        | 22.28  | 22.22  | 22.28  | 24.20             |
|                 |                   | 50      | 56        | 22.27  | 22.27  | 22.28  | 24.20             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.60  | 21.66  | 21.77  | 23.20             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 21.25  | 21.27  | 21.34  | 23.20             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.82  | 19.84  | 19.76  | 21.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.84  | 17.78  | 17.80  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.88  | 20.89  | 20.72  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.29  | 20.21  | 20.33  | 22.20             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 18.89  | 18.84  | 18.89  | 20.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 15.85     | 15.90  | 15.77  | 17.70  |                   |

**N66-ANT4 State1(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 21.60  | 21.67  | 21.80  | 22.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 21.34  | 21.35  | 21.49  | 22.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 21.26  | 21.30  | 21.40  | 22.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 21.38  | 21.57  | 21.32  | 22.70             |
|                 |                   | 1       | 53        | 21.46  | 21.56  | 21.37  | 22.70             |
|                 |                   | 1       | 104       | 21.39  | 21.38  | 21.46  | 22.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 21.43  | 21.83  | 21.53  | 22.70             |
|                 |                   | 50      | 28        | 21.56  | 21.64  | 21.61  | 22.70             |
|                 |                   | 50      | 56        | 21.37  | 21.53  | 21.67  | 22.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 21.67  | 21.63  | 21.47  | 22.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 20.70  | 20.80  | 20.75  | 22.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 19.91  | 19.81  | 19.74  | 21.50             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.87  | 17.72  | 17.73  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 20.76  | 20.75  | 20.73  | 22.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 20.30  | 20.21  | 20.26  | 22.20             |
| CP-OFDM 64QAM   | 1                 | 1       | 18.75     | 18.73  | 18.74  | 20.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 15.88     | 15.77  | 15.88  | 17.70  |                   |

**N66-ANT4 State2&4(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 342500 | 349000 | 353500 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 1712.5 | 1745   | 1767.5 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 15.52  | 15.56  | 15.54  | 16.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343000 | 349000 | 353000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1715   | 1745   | 1765   |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 15.62  | 15.25  | 15.15  | 16.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 343500 | 349000 | 352500 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1717.5 | 1745   | 1762.5 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 15.54  | 15.46  | 15.42  | 16.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 346000 | 349000 | 352000 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 1730   | 1745   | 1760   |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 15.36  | 15.55  | 15.42  | 16.70             |
|                 |                   | 1       | 53        | 15.30  | 15.51  | 15.49  | 16.70             |
|                 |                   | 1       | 104       | 15.35  | 15.30  | 15.29  | 16.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 15.48  | 15.67  | 15.40  | 16.70             |
|                 |                   | 50      | 28        | 15.41  | 15.50  | 15.63  | 16.70             |
|                 |                   | 50      | 56        | 15.32  | 15.41  | 15.35  | 16.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 15.57  | 15.50  | 15.31  | 16.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 15.09  | 15.04  | 14.88  | 16.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 15.20  | 15.24  | 15.16  | 16.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 15.53  | 15.71  | 15.58  | 16.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 15.13  | 15.28  | 15.34  | 16.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 15.57  | 15.59  | 15.77  | 16.70             |
| CP-OFDM 64QAM   | 1                 | 1       | 15.29     | 15.41  | 15.57  | 16.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 15.12     | 15.09  | 15.09  | 16.70  |                   |

**N66-ANT4 State3&5(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 1712.5 | 1745   | 1767.5 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 342500 | 349000 | 353500 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 18.75  | 18.76  | 18.68  | 19.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1715   | 1745   | 1765   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343000 | 349000 | 353000 |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 18.51  | 18.68  | 18.73  | 19.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1717.5 | 1745   | 1762.5 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343500 | 349000 | 352500 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 18.62  | 18.60  | 18.73  | 19.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1730   | 1745   | 1750   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 346000 | 349000 | 350000 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 18.76  | 19.03  | 18.89  | 19.70             |
|                 |                   | 1       | 53        | 18.96  | 18.81  | 18.92  | 19.70             |
|                 |                   | 1       | 104       | 18.95  | 18.89  | 18.79  | 19.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 19.05  | 19.32  | 18.81  | 19.70             |
|                 |                   | 50      | 28        | 19.12  | 19.12  | 19.01  | 19.70             |
|                 |                   | 50      | 56        | 19.09  | 18.99  | 19.14  | 19.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 19.27  | 19.10  | 19.07  | 19.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 18.78  | 18.63  | 18.63  | 19.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 18.86  | 18.71  | 18.53  | 19.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 17.87  | 17.75  | 17.78  | 19.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 18.91  | 18.89  | 18.74  | 19.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 19.12  | 19.16  | 19.19  | 19.70             |
| CP-OFDM 64QAM   | 1                 | 1       | 18.68     | 18.48  | 18.32  | 19.70  |                   |
| CP-OFDM 256QAM  | 1                 | 1       | 16.04     | 15.91  | 16.05  | 17.70  |                   |

**N66-ANT4 State6(NSA)**

| Bandwidth (MHz) | Modulation        | Channel |           | 1712.5 | 1745   | 1767.5 | Tune-up power(dB) |
|-----------------|-------------------|---------|-----------|--------|--------|--------|-------------------|
|                 |                   | RB Size | RB offset | 342500 | 349000 | 353500 |                   |
| 5               | DFT-s-OFDM QPSK   | 1       | 1         | 13.84  | 13.76  | 13.80  | 14.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1715   | 1745   | 1765   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343000 | 349000 | 353000 |                   |
| 10              | DFT-s-OFDM QPSK   | 1       | 1         | 14.11  | 13.92  | 14.19  | 14.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1717.5 | 1745   | 1762.5 | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 343500 | 349000 | 352500 |                   |
| 15              | DFT-s-OFDM QPSK   | 1       | 1         | 13.96  | 13.84  | 14.11  | 14.70             |
| Bandwidth (MHz) | Modulation        | Channel |           | 1730   | 1745   | 1750   | Tune-up power(dB) |
|                 |                   | RB Size | RB offset | 346000 | 349000 | 350000 |                   |
| 20              | DFT-s-OFDM QPSK   | 1       | 1         | 13.95  | 14.02  | 14.01  | 14.70             |
|                 |                   | 1       | 53        | 13.74  | 13.95  | 13.98  | 14.70             |
|                 |                   | 1       | 104       | 13.98  | 13.83  | 13.85  | 14.70             |
|                 | DFT-s-OFDM QPSK   | 50      | 0         | 13.99  | 14.22  | 13.95  | 14.70             |
|                 |                   | 50      | 28        | 14.08  | 14.08  | 14.20  | 14.70             |
|                 |                   | 50      | 56        | 14.19  | 14.06  | 13.98  | 14.70             |
|                 | DFT-s-OFDM QPSK   | 100     | 0         | 14.14  | 14.18  | 14.11  | 14.70             |
|                 | DFT-s-OFDM 16QAM  | 1       | 1         | 13.89  | 13.70  | 13.51  | 14.70             |
|                 | DFT-s-OFDM 64QAM  | 1       | 1         | 13.75  | 13.72  | 13.64  | 14.70             |
|                 | DFT-s-OFDM 256QAM | 1       | 1         | 13.90  | 14.10  | 14.06  | 14.70             |
|                 | CP-OFDM QPSK      | 1       | 1         | 13.96  | 13.97  | 14.02  | 14.70             |
|                 | CP-OFDM 16QAM     | 1       | 1         | 13.98  | 14.02  | 13.87  | 14.70             |
|                 | CP-OFDM 64QAM     | 1       | 1         | 14.05  | 14.05  | 13.92  | 14.70             |
| CP-OFDM 256QAM  | 1                 | 1       | 13.92     | 13.78  | 13.98  | 14.70  |                   |



## 8.7.1 LTE Band7 Uplink CA Output Power

| LTE Uplink 2CA_ Band 7-ANT4 Full power |       |           |            |         |         |         |         |               |                     |                          |
|--|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)   |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                    | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|  |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 20850                                  | 21048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 22.49               | 23.5                     |
| 21100                                  | 21298 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 22.61               | 23.5                     |
| 21350                                  | 21152 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 22.57               | 23.5                     |

| LTE Uplink 2CA_ Band 7-ANT4-State1&3&5 |       |           |            |         |         |         |         |               |                     |                          |
|--|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)   |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                    | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|  |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 20850                                  | 21048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 18.52               | 19.5                     |
| 21100                                  | 21298 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 18.61               | 19.5                     |
| 21350                                  | 21152 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 18.56               | 19.5                     |

| LTE Uplink 2CA_ Band 7-ANT4-State2&4&6 |       |           |            |         |         |         |         |               |                     |                          |
|--|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)   |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                    | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|  |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 20850                                  | 21048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 15.52               | 16.5                     |
| 21100                                  | 21298 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 15.63               | 16.5                     |
| 21350                                  | 21152 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 15.4                | 16.5                     |

| LTE Uplink 2CA_ Band 7-ANT3 Full power |       |           |            |         |         |         |         |               |                     |                          |
|--|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)   |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                    | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|  |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 20850                                  | 21048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 23.25               | 23.5                     |
| 21100                                  | 21298 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 23.31               | 23.5                     |
| 21350                                  | 21152 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 23.21               | 23.5                     |

| LTE Uplink 2CA_ Band 7-ANT3-State1&3&5 |       |           |            |         |         |         |         |               |                     |                          |
|--|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)   |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                    | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|  |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 20850                                  | 21048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 18.65               | 19                       |
| 21100                                  | 21298 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 18.77               | 19                       |
| 21350                                  | 21152 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 18.73               | 19                       |

| LTE Uplink 2CA_ Band 7-ANT3-State2&4&6 |       |           |            |         |         |         |         |               |                     |                          |
|--|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)   |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                    | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|  |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 20850                                  | 21048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 23.25               | 23.5                     |
| 21100                                  | 21298 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 23.31               | 23.5                     |
| 21350                                  | 21152 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 23.21               | 23.5                     |

## 8.7.2 LTE Band38 Uplink CA Output Power

| LTE Uplink 2CA_Band 38-ANT4-Full power |       |           |            |         |         |         |         |               |                     |                          |
|--|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)   |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                    | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|  |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 37850                                  | 38048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 22.14               | 24                       |
| 38099                                  | 37901 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 22.26               | 24                       |
| 38150                                  | 37952 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 22.18               | 24                       |

| LTE Uplink 2CA_Band 38-ANT4-State1&3&5 |       |           |            |         |         |         |         |               |                     |                          |
|--|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)   |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                    | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|  |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 37850                                  | 38048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 20.32               | 22                       |
| 38099                                  | 37901 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 20.21               | 22                       |
| 38150                                  | 37952 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 20.29               | 22                       |

| LTE Uplink 2CA_Band 38-ANT4-State2&4 |       |           |            |         |         |         |         |               |                     |                          |
|--------------------------------------|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB) |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                  | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|                                      |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 37850                                | 38048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 15.68               | 17.5                     |
| 38099                                | 37901 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 15.79               | 17.5                     |
| 38150                                | 37952 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 15.71               | 17.5                     |

| LTE Uplink 2CA_Band 38-ANT4-State6   |       |           |            |         |         |         |         |               |                     |                          |
|--------------------------------------|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB) |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                  | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|                                      |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 37850                                | 38048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 14.77               | 16.5                     |
| 38099                                | 37901 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 14.83               | 16.5                     |
| 38150                                | 37952 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 14.86               | 16.5                     |

| LTE Uplink 2CA_Band 38-ANT3-Full power |       |           |            |         |         |         |         |               |                     |                          |
|--|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)   |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                    | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|  |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 37850                                  | 38048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 23.82               | 24                       |
| 38099                                  | 37901 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 23.79               | 24                       |
| 38150                                  | 37952 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 23.75               | 24                       |

| LTE Uplink 2CA_Band 38-ANT3-State1&3&5 |       |           |            |         |         |         |         |               |                     |                          |
|--|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)   |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                    | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|  |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 37850                                  | 38048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 21.83               | 22                       |
| 38099                                  | 37901 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 21.81               | 22                       |
| 38150                                  | 37952 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 21.88               | 22                       |

| LTE Uplink 2CA_Band 38-ANT3-State2&4&6 |       |           |            |         |         |         |         |               |                     |                          |
|--|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)   |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                    | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|  |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 37850                                  | 38048 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 23.82               | 24                       |
| 38099                                  | 37901 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 23.79               | 24                       |
| 38150                                  | 37952 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 23.75               | 24                       |

### 8.7.3 LTE Band41 Uplink CA Output Power

| LTE Uplink 2CA_ Band 41-ANT4-Full power |       |           |            |         |         |         |         |               |                     |                          |
|---|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)    |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                     | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|   |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 39750                                   | 39948 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 22.51               | 24                       |
| 40620                                   | 40818 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 22.59               | 24                       |
| 41490                                   | 41292 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 22.65               | 24                       |

| LTE Uplink 2CA_ Band 41-ANT4-State1  |       |           |            |         |         |         |         |               |                     |                          |
|--------------------------------------|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB) |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                  | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|                                      |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 39750                                | 39948 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 19.63               | 21                       |
| 40620                                | 40818 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 19.71               | 21                       |
| 41490                                | 41292 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 19.66               | 21                       |

| LTE Uplink 2CA_ Band 41-ANT1-State2&4 |       |           |            |         |         |         |         |               |                     |                          |
|---------------------------------------|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)  |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                   | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|                                       |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 39750                                 | 39948 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 15.95               | 17.5                     |
| 40620                                 | 40818 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 16.01               | 17.5                     |
| 41490                                 | 41292 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 15.99               | 17.5                     |

| LTE Uplink 2CA_ Band 41-ANT1-State3&5 |       |           |            |         |         |         |         |               |                     |                          |
|---------------------------------------|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)  |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                   | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|                                       |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 39750                                 | 39948 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 18.05               | 19.5                     |
| 40620                                 | 40818 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 18.06               | 19.5                     |
| 41490                                 | 41292 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 18.11               | 19.5                     |

| LTE Uplink 2CA_ Band 41-ANT1-State6  |       |           |            |         |         |         |         |               |                     |                          |
|--------------------------------------|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB) |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                  | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|                                      |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 39750                                | 39948 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 15.45               | 16.5                     |
| 40620                                | 40818 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 15.56               | 16.5                     |
| 41490                                | 41292 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 15.51               | 16.5                     |

| LTE Uplink 2CA_ Band 41-ANT3-Full power |       |           |            |         |         |         |         |               |                     |                          |
|---|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)    |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                     | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|   |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 39750                                   | 39948 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 23.66               | 24.5                     |
| 40620                                   | 40818 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 23.74               | 24.5                     |
| 41490                                   | 41292 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 23.78               | 24.5                     |

| LTE Uplink 2CA_ Band 41-ANT3-State1&3 |       |           |            |         |         |         |         |               |                     |                          |
|---------------------------------------|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)  |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                   | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|                                       |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 39750                                 | 39948 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 20.32               | 21                       |
| 40620                                 | 40818 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 20.36               | 21                       |
| 41490                                 | 41292 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 20.28               | 21                       |

| LTE Uplink 2CA_ Band 41-ANT3-State2&4&6 |       |           |            |         |         |         |         |               |                     |                          |
|---|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB)    |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                     | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|   |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 39750                                   | 39948 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 23.66               | 24.5                     |
| 40620                                   | 40818 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 23.74               | 24.5                     |
| 41490                                   | 41292 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 23.78               | 24.5                     |

| LTE Uplink 2CA_ Band 41-ANT3-State5  |       |           |            |         |         |         |         |               |                     |                          |
|--------------------------------------|-------|-----------|------------|---------|---------|---------|---------|---------------|---------------------|--------------------------|
| Combination 20MHz+20MHz(100RB+100RB) |       |           |            |         |         |         |         |               |                     |                          |
| PCC                                  | SCC   | Bandwidth | Modulation | PCC     |         | SCC     |         | Total RB Size | Measured Power(dBm) | Max. tune-up power (dBm) |
|                                      |       |           |            | RB Size | RB Pos. | RB Size | RB Pos. |               |                     |                          |
| 39750                                | 39948 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 18.76               | 19.5                     |
| 40620                                | 40818 | 20        | QPSK       | 1       | High    | 1       | Low     | 2             | 18.83               | 19.5                     |
| 41490                                | 41292 | 20        | QPSK       | 1       | Low     | 1       | High    | 2             | 18.65               | 19.5                     |