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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 372000                | 376000                   | 380000                 |                     |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 24.06                 | 24.20                    | 23.96                  | 24.5                |
| 20              | PI/2 BPSK  | 1       | 53        | 23.96                 | 24.11                    | 23.85                  |                     |
| 20              | PI/2 BPSK  | 1       | 104       | 24.03                 | 24.17                    | 23.90                  |                     |
| 20              | PI/2 BPSK  | 50      | 0         | 23.64                 | 23.78                    | 23.47                  | 24.0                |
| 20              | PI/2 BPSK  | 50      | 28        | 24.00                 | 24.17                    | 23.91                  | 24.5                |
| 20              | PI/2 BPSK  | 50      | 56        | 23.60                 | 23.78                    | 23.51                  | 24.0                |
| 20              | PI/2 BPSK  | 100     | 0         | 23.60                 | 23.75                    | 23.47                  |                     |
| 20              | QPSK       | 1       | 1         | 24.06                 | 24.18                    | 23.95                  | 24.5                |
| 20              | QPSK       | 1       | 53        | 24.00                 | 24.12                    | 23.82                  |                     |
| 20              | QPSK       | 1       | 104       | 23.98                 | 24.14                    | 23.86                  |                     |
| 20              | QPSK       | 50      | 0         | 23.16                 | 23.36                    | 23.08                  | 23.5                |
| 20              | QPSK       | 50      | 28        | 24.03                 | 24.16                    | 23.95                  | 24.5                |
| 20              | QPSK       | 50      | 56        | 23.08                 | 23.28                    | 22.99                  | 23.5                |
| 20              | QPSK       | 100     | 0         | 23.13                 | 23.30                    | 23.07                  |                     |
| 20              | 16QAM      | 1       | 1         | 23.07                 | 23.27                    | 22.96                  | 23.5                |
| 20              | 64QAM      | 1       | 1         | 21.70                 | 21.86                    | 21.64                  | 22.0                |
| 20              | 256QAM     | 1       | 1         | 19.68                 | 19.83                    | 19.52                  | 20.0                |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 23.93                 | 24.12                    | 23.81                  | 24.5                |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 23.96                 | 24.10                    | 23.84                  | 24.5                |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 23.92                 | 24.11                    | 23.81                  | 24.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 372000                | 376000                   | 380000                 |                     |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 17.18                 | 17.21                    | 17.15                  | 17.7                |
| 20              | PI/2 BPSK  | 1       | 53        | 17.14                 | 17.16                    | 17.08                  |                     |
| 20              | PI/2 BPSK  | 1       | 104       | 17.15                 | 17.18                    | 17.12                  |                     |
| 20              | PI/2 BPSK  | 50      | 0         | 17.05                 | 17.14                    | 17.07                  | 17.7                |
| 20              | PI/2 BPSK  | 50      | 28        | 17.12                 | 17.18                    | 17.13                  | 17.7                |
| 20              | PI/2 BPSK  | 50      | 56        | 17.07                 | 17.16                    | 17.06                  | 17.7                |
| 20              | PI/2 BPSK  | 100     | 0         | 17.16                 | 17.17                    | 17.12                  |                     |
| 20              | QPSK       | 1       | 1         | 17.11                 | 17.19                    | 17.10                  | 17.7                |
| 20              | QPSK       | 1       | 53        | 17.15                 | 17.15                    | 17.05                  |                     |
| 20              | QPSK       | 1       | 104       | 17.14                 | 17.14                    | 17.07                  |                     |
| 20              | QPSK       | 50      | 0         | 17.10                 | 17.16                    | 17.12                  | 17.7                |
| 20              | QPSK       | 50      | 28        | 17.10                 | 17.16                    | 17.09                  | 17.7                |
| 20              | QPSK       | 50      | 56        | 17.14                 | 17.15                    | 17.06                  | 17.7                |
| 20              | QPSK       | 100     | 0         | 17.14                 | 17.14                    | 17.13                  |                     |
| 20              | 16QAM      | 1       | 1         | 17.15                 | 17.18                    | 17.17                  | 17.7                |
| 20              | 64QAM      | 1       | 1         | 17.08                 | 17.16                    | 17.08                  | 17.7                |
| 20              | 256QAM     | 1       | 1         | 17.06                 | 17.12                    | 17.03                  | 17.7                |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 17.11                 | 17.13                    | 17.14                  | 17.7                |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 17.14                 | 17.07                    | 17.08                  | 17.7                |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 17.05                 | 17.11                    | 17.02                  | 17.7                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 24.5                |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 24.09                 | 24.15                    | 24.06                  |                     |
| 20              | PI/2 BPSK  | 1       | 53        | 23.94                 | 24.07                    | 23.94                  | 24.0                |
| 20              | PI/2 BPSK  | 1       | 104       | 23.99                 | 24.07                    | 24.06                  |                     |
| 20              | PI/2 BPSK  | 50      | 0         | 23.51                 | 23.58                    | 23.54                  | 24.5                |
| 20              | PI/2 BPSK  | 50      | 28        | 23.99                 | 24.03                    | 24.00                  | 24.0                |
| 20              | PI/2 BPSK  | 50      | 56        | 23.44                 | 23.56                    | 23.39                  |                     |
| 20              | PI/2 BPSK  | 100     | 0         | 23.44                 | 23.55                    | 23.46                  | 24.5                |
| 20              | QPSK       | 1       | 1         | 24.08                 | 24.11                    | 24.03                  |                     |
| 20              | QPSK       | 1       | 53        | 24.02                 | 24.05                    | 24.03                  | 23.5                |
| 20              | QPSK       | 1       | 104       | 23.95                 | 24.00                    | 23.99                  |                     |
| 20              | QPSK       | 50      | 0         | 23.10                 | 23.16                    | 23.04                  | 24.5                |
| 20              | QPSK       | 50      | 28        | 24.07                 | 24.09                    | 24.04                  |                     |
| 20              | QPSK       | 50      | 56        | 22.93                 | 22.99                    | 22.90                  | 23.5                |
| 20              | QPSK       | 100     | 0         | 23.09                 | 23.11                    | 23.01                  |                     |
| 20              | 16QAM      | 1       | 1         | 23.38                 | 23.42                    | 23.31                  | 23.5                |
| 20              | 64QAM      | 1       | 1         | 21.63                 | 21.70                    | 21.61                  | 22.0                |
| 20              | 256QAM     | 1       | 1         | 19.62                 | 19.62                    | 19.54                  | 20.0                |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | 24.5                |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 24.03                 | 24.05                    | 24.05                  | 24.5                |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 |                     |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   | 24.5                |
| 10              | PI/2 BPSK  | 1       | 1         | 23.99                 | 24.14                    | 24.01                  |                     |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | 24.5                |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 24.08                 | 24.11                    | 23.99                  | 24.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 372000                | 376000                   | 380000                 |                     |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 16.53                 | 16.64                    | 16.49                  | 17.3                |
| 20              | PI/2 BPSK  | 1       | 53        | 16.44                 | 16.49                    | 16.43                  |                     |
| 20              | PI/2 BPSK  | 1       | 104       | 16.48                 | 16.53                    | 16.46                  |                     |
| 20              | PI/2 BPSK  | 50      | 0         | 16.49                 | 16.57                    | 16.49                  | 17.3                |
| 20              | PI/2 BPSK  | 50      | 28        | 16.51                 | 16.62                    | 16.50                  | 17.3                |
| 20              | PI/2 BPSK  | 50      | 56        | 16.57                 | 16.60                    | 16.54                  | 17.3                |
| 20              | PI/2 BPSK  | 100     | 0         | 16.45                 | 16.55                    | 16.49                  |                     |
| 20              | QPSK       | 1       | 1         | 16.55                 | 16.60                    | 16.51                  | 17.3                |
| 20              | QPSK       | 1       | 53        | 16.47                 | 16.57                    | 16.51                  |                     |
| 20              | QPSK       | 1       | 104       | 16.45                 | 16.53                    | 16.46                  |                     |
| 20              | QPSK       | 50      | 0         | 16.48                 | 16.56                    | 16.50                  | 17.3                |
| 20              | QPSK       | 50      | 28        | 16.52                 | 16.59                    | 16.52                  | 17.3                |
| 20              | QPSK       | 50      | 56        | 16.43                 | 16.53                    | 16.45                  | 17.3                |
| 20              | QPSK       | 100     | 0         | 16.39                 | 16.47                    | 16.40                  |                     |
| 20              | 16QAM      | 1       | 1         | 16.48                 | 16.56                    | 16.48                  | 17.3                |
| 20              | 64QAM      | 1       | 1         | 16.48                 | 16.55                    | 16.49                  | 17.3                |
| 20              | 256QAM     | 1       | 1         | 16.33                 | 16.43                    | 16.35                  | 17.3                |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 16.40                 | 16.49                    | 16.37                  | 17.3                |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 16.36                 | 16.50                    | 16.38                  | 17.3                |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 16.33                 | 16.45                    | 16.29                  | 17.3                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 166800                | 167300                   | 167800                 |                     |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 23.54                 | 23.56                    | 23.53                  | 24.5                |
| 20              | PI/2 BPSK  | 1       | 53        | 23.23                 | 23.28                    | 23.25                  |                     |
| 20              | PI/2 BPSK  | 1       | 104       | 23.29                 | 23.33                    | 23.29                  |                     |
| 20              | PI/2 BPSK  | 50      | 0         | 22.93                 | 22.98                    | 22.91                  | 24.0                |
| 20              | PI/2 BPSK  | 50      | 28        | 23.45                 | 23.48                    | 23.47                  | 24.5                |
| 20              | PI/2 BPSK  | 50      | 56        | 23.04                 | 23.07                    | 23.04                  | 24.0                |
| 20              | PI/2 BPSK  | 100     | 0         | 23.06                 | 23.08                    | 23.04                  |                     |
| 20              | QPSK       | 1       | 1         | 23.32                 | 23.46                    | 23.43                  | 24.5                |
| 20              | QPSK       | 1       | 53        | 23.44                 | 23.51                    | 23.47                  |                     |
| 20              | QPSK       | 1       | 104       | 23.35                 | 23.39                    | 23.32                  |                     |
| 20              | QPSK       | 50      | 0         | 22.14                 | 22.20                    | 22.11                  | 23.5                |
| 20              | QPSK       | 50      | 28        | 23.42                 | 23.46                    | 23.44                  | 24.5                |
| 20              | QPSK       | 50      | 56        | 22.15                 | 22.26                    | 22.13                  | 23.5                |
| 20              | QPSK       | 100     | 0         | 22.18                 | 22.22                    | 22.20                  |                     |
| 20              | 16QAM      | 1       | 1         | 22.43                 | 22.46                    | 22.44                  | 23.5                |
| 20              | 64QAM      | 1       | 1         | 20.99                 | 21.03                    | 21.00                  | 22.0                |
| 20              | 256QAM     | 1       | 1         | 19.06                 | 19.10                    | 19.06                  | 20.0                |
| Channel         |            |         |           | 166300                | 167300                   | 168300                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 831.5                 | 836.5                    | 841.5                  |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 23.47                 | 23.50                    | 23.43                  | 24.5                |
| Channel         |            |         |           | 165800                | 167300                   | 168800                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 23.45                 | 23.50                    | 23.46                  | 24.5                |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 23.46                 | 23.49                    | 23.52                  | 24.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 166800                | 167300                   | 167800                 |                     |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 20.63                 | 20.69                    | 20.64                  | 21.1                |
| 20              | PI/2 BPSK  | 1       | 53        | 20.59                 | 20.65                    | 20.49                  |                     |
| 20              | PI/2 BPSK  | 1       | 104       | 20.58                 | 20.64                    | 20.55                  |                     |
| 20              | PI/2 BPSK  | 50      | 0         | 20.46                 | 20.53                    | 20.41                  | 21.1                |
| 20              | PI/2 BPSK  | 50      | 28        | 20.51                 | 20.59                    | 20.56                  | 21.1                |
| 20              | PI/2 BPSK  | 50      | 56        | 20.44                 | 20.52                    | 20.39                  | 21.1                |
| 20              | PI/2 BPSK  | 100     | 0         | 20.49                 | 20.56                    | 20.49                  |                     |
| 20              | QPSK       | 1       | 1         | 20.62                 | 20.66                    | 20.59                  | 21.1                |
| 20              | QPSK       | 1       | 53        | 20.55                 | 20.65                    | 20.46                  |                     |
| 20              | QPSK       | 1       | 104       | 20.61                 | 20.62                    | 20.59                  |                     |
| 20              | QPSK       | 50      | 0         | 20.56                 | 20.60                    | 20.46                  | 21.1                |
| 20              | QPSK       | 50      | 28        | 20.51                 | 20.58                    | 20.50                  | 21.1                |
| 20              | QPSK       | 50      | 56        | 20.49                 | 20.54                    | 20.41                  | 21.1                |
| 20              | QPSK       | 100     | 0         | 20.54                 | 20.59                    | 20.48                  |                     |
| 20              | 16QAM      | 1       | 1         | 20.63                 | 20.63                    | 20.54                  | 21.1                |
| 20              | 64QAM      | 1       | 1         | 20.57                 | 20.62                    | 20.49                  | 21.1                |
| 20              | 256QAM     | 1       | 1         | 19.07                 | 19.13                    | 18.98                  | 20.0                |
| Channel         |            |         |           | 166300                | 167300                   | 168300                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 831.5                 | 836.5                    | 841.5                  |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 20.43                 | 20.65                    | 20.61                  | 21.1                |
| Channel         |            |         |           | 165800                | 167300                   | 168800                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 20.51                 | 20.55                    | 20.47                  | 21.1                |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 20.54                 | 20.59                    | 20.45                  | 21.1                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 504000                | 507000                   | 510000                 |                     |
| Frequency (MHz) |            |         |           | 2520                  | 2535                     | 2550                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 23.98                 | 24.02                    | 23.95                  | 24.5                |
| 40              | PI/2 BPSK  | 1       | 108       | 23.85                 | 23.96                    | 23.94                  |                     |
| 40              | PI/2 BPSK  | 1       | 214       | 23.84                 | 23.89                    | 23.85                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 23.52                 | 23.55                    | 23.50                  | 24.0                |
| 40              | PI/2 BPSK  | 108     | 54        | 23.94                 | 23.96                    | 23.93                  | 24.5                |
| 40              | PI/2 BPSK  | 108     | 108       | 23.55                 | 23.60                    | 23.56                  | 24.0                |
| 40              | PI/2 BPSK  | 216     | 0         | 23.48                 | 23.52                    | 23.49                  |                     |
| 40              | QPSK       | 1       | 1         | 23.97                 | 24.00                    | 23.98                  | 24.5                |
| 40              | QPSK       | 1       | 108       | 23.92                 | 23.95                    | 23.91                  |                     |
| 40              | QPSK       | 1       | 214       | 23.95                 | 23.93                    | 23.87                  |                     |
| 40              | QPSK       | 108     | 0         | 23.08                 | 23.10                    | 23.08                  | 23.5                |
| 40              | QPSK       | 108     | 54        | 23.96                 | 23.99                    | 23.94                  | 24.5                |
| 40              | QPSK       | 108     | 108       | 23.07                 | 23.12                    | 23.09                  | 23.5                |
| 40              | QPSK       | 216     | 0         | 22.99                 | 23.02                    | 22.99                  |                     |
| 40              | 16QAM      | 1       | 1         | 23.10                 | 23.15                    | 23.12                  | 23.5                |
| 40              | 64QAM      | 1       | 1         | 21.50                 | 21.55                    | 21.50                  | 22.0                |
| 40              | 256QAM     | 1       | 1         | 19.57                 | 19.62                    | 19.58                  | 20.0                |
| Channel         |            |         |           | 503000                | 507000                   | 511000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2515                  | 2535                     | 2555                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 23.94                 | 23.93                    | 23.87                  | 24.5                |
| Channel         |            |         |           | 502500                | 507000                   | 511500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2512.5                | 2535                     | 2557.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 23.92                 | 23.90                    | 23.90                  | 24.5                |
| Channel         |            |         |           | 502000                | 507000                   | 512000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 23.93                 | 23.99                    | 23.93                  | 24.5                |
| Channel         |            |         |           | 501500                | 507000                   | 512500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 23.90                 | 23.98                    | 23.89                  | 24.5                |
| Channel         |            |         |           | 501000                | 507000                   | 513000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 23.93                 | 23.94                    | 23.87                  | 24.5                |
| Channel         |            |         |           | 500500                | 507000                   | 513500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 23.91                 | 23.90                    | 23.91                  | 24.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 504000                | 507000                   | 510000                 |                     |
| Frequency (MHz) |            |         |           | 2520                  | 2535                     | 2550                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 15.80                 | 15.84                    | 15.55                  | 17.1                |
| 40              | PI/2 BPSK  | 1       | 108       | 15.80                 | 15.83                    | 15.80                  |                     |
| 40              | PI/2 BPSK  | 1       | 214       | 15.82                 | 15.82                    | 15.77                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 15.66                 | 15.75                    | 15.61                  | 17.1                |
| 40              | PI/2 BPSK  | 108     | 54        | 15.75                 | 15.80                    | 15.74                  | 17.1                |
| 40              | PI/2 BPSK  | 108     | 108       | 15.72                 | 15.76                    | 15.70                  | 17.1                |
| 40              | PI/2 BPSK  | 216     | 0         | 15.68                 | 15.78                    | 15.64                  |                     |
| 40              | QPSK       | 1       | 1         | 15.74                 | 15.80                    | 15.72                  | 17.1                |
| 40              | QPSK       | 1       | 108       | 15.69                 | 15.76                    | 15.66                  |                     |
| 40              | QPSK       | 1       | 214       | 15.73                 | 15.77                    | 15.66                  |                     |
| 40              | QPSK       | 108     | 0         | 15.75                 | 15.78                    | 15.74                  | 17.1                |
| 40              | QPSK       | 108     | 54        | 15.71                 | 15.75                    | 15.61                  | 17.1                |
| 40              | QPSK       | 108     | 108       | 15.69                 | 15.71                    | 15.67                  | 17.1                |
| 40              | QPSK       | 216     | 0         | 15.60                 | 15.69                    | 15.53                  |                     |
| 40              | 16QAM      | 1       | 1         | 15.63                 | 15.73                    | 15.55                  | 17.1                |
| 40              | 64QAM      | 1       | 1         | 15.63                 | 15.72                    | 15.59                  | 17.1                |
| 40              | 256QAM     | 1       | 1         | 15.74                 | 15.78                    | 15.73                  | 17.1                |
| Channel         |            |         |           | 503000                | 507000                   | 511000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2515                  | 2535                     | 2555                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 15.70                 | 15.82                    | 15.52                  | 17.1                |
| Channel         |            |         |           | 502500                | 507000                   | 511500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2512.5                | 2535                     | 2557.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 15.75                 | 15.82                    | 15.74                  | 17.1                |
| Channel         |            |         |           | 502000                | 507000                   | 512000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 15.82                 | 15.73                    | 15.69                  | 17.1                |
| Channel         |            |         |           | 501500                | 507000                   | 512500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 15.61                 | 15.67                    | 15.58                  | 17.1                |
| Channel         |            |         |           | 501000                | 507000                   | 513000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 15.65                 | 15.79                    | 15.71                  | 17.1                |
| Channel         |            |         |           | 500500                | 507000                   | 513500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 15.69                 | 15.75                    | 15.62                  | 17.1                |





<FR1 n7\_Ant 2\_Index 1>

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 504000                | 507000                   | 510000                 |                     |
| Frequency (MHz) |            |         |           | 2520                  | 2535                     | 2550                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 13.52                 | 13.62                    | 13.57                  | 14.7                |
| 40              | PI/2 BPSK  | 1       | 108       | 13.49                 | 13.55                    | 13.50                  |                     |
| 40              | PI/2 BPSK  | 1       | 214       | 13.42                 | 13.51                    | 13.45                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 13.46                 | 13.54                    | 13.46                  | 14.2                |
| 40              | PI/2 BPSK  | 108     | 54        | 13.52                 | 13.59                    | 13.49                  | 14.7                |
| 40              | PI/2 BPSK  | 108     | 108       | 13.42                 | 13.52                    | 13.47                  | 14.2                |
| 40              | PI/2 BPSK  | 216     | 0         | 13.49                 | 13.55                    | 13.46                  |                     |
| 40              | QPSK       | 1       | 1         | 13.54                 | 13.60                    | 13.51                  | 14.7                |
| 40              | QPSK       | 1       | 108       | 13.52                 | 13.58                    | 13.48                  | 23.5                |
| 40              | QPSK       | 1       | 214       | 13.48                 | 13.57                    | 13.52                  | 24.5                |
| 40              | QPSK       | 108     | 0         | 13.45                 | 13.52                    | 13.43                  | 13.7                |
| 40              | QPSK       | 108     | 54        | 13.46                 | 13.55                    | 13.50                  | 23.5                |
| 40              | QPSK       | 108     | 108       | 13.49                 | 13.54                    | 13.47                  | 13.7                |
| 40              | QPSK       | 216     | 0         | 13.35                 | 13.43                    | 13.38                  |                     |
| 40              | 16QAM      | 1       | 1         | 13.48                 | 13.56                    | 13.47                  | 13.7                |
| 40              | 64QAM      | 1       | 1         | 13.43                 | 13.52                    | 13.46                  | 12.2                |
| 40              | 256QAM     | 1       | 1         | 13.46                 | 13.54                    | 13.48                  | 10.2                |
| Channel         |            |         |           | 503000                | 507000                   | 511000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2515                  | 2535                     | 2555                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 13.35                 | 13.49                    | 13.40                  | 14.7                |
| Channel         |            |         |           | 502500                | 507000                   | 511500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2512.5                | 2535                     | 2557.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 13.34                 | 13.51                    | 13.39                  | 14.7                |
| Channel         |            |         |           | 502000                | 507000                   | 512000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 13.35                 | 13.46                    | 13.45                  | 14.7                |
| Channel         |            |         |           | 501500                | 507000                   | 512500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 13.37                 | 13.45                    | 13.45                  | 14.7                |
| Channel         |            |         |           | 501000                | 507000                   | 513000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 13.39                 | 13.42                    | 13.38                  | 14.7                |
| Channel         |            |         |           | 500500                | 507000                   | 513500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 13.41                 | 13.46                    | 13.44                  | 14.7                |



<FR1 n12\_Ant 1\_Index 1>

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 141300                | 141500                   | 141700                 |                     |
| Frequency (MHz) |            |         |           | 706.5                 | 707.5                    | 708.5                  |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 24.07                 | 24.20                    | 24.11                  | 24.5                |
| 15              | PI/2 BPSK  | 1       | 40        | 23.85                 | 24.02                    | 23.86                  |                     |
| 15              | PI/2 BPSK  | 1       | 77        | 23.77                 | 23.95                    | 23.81                  |                     |
| 15              | PI/2 BPSK  | 36      | 0         | 23.87                 | 23.97                    | 23.81                  | 24.0                |
| 15              | PI/2 BPSK  | 36      | 22        | 23.94                 | 24.08                    | 23.98                  | 24.5                |
| 15              | PI/2 BPSK  | 36      | 43        | 23.80                 | 23.97                    | 23.87                  | 24.0                |
| 15              | PI/2 BPSK  | 75      | 0         | 23.88                 | 23.99                    | 23.87                  |                     |
| 15              | QPSK       | 1       | 1         | 23.96                 | 24.13                    | 23.98                  | 24.5                |
| 15              | QPSK       | 1       | 40        | 23.73                 | 23.89                    | 23.72                  |                     |
| 15              | QPSK       | 1       | 77        | 23.73                 | 23.90                    | 23.81                  |                     |
| 15              | QPSK       | 36      | 0         | 23.30                 | 23.43                    | 23.29                  | 23.5                |
| 15              | QPSK       | 36      | 22        | 23.77                 | 23.97                    | 23.88                  | 24.5                |
| 15              | QPSK       | 36      | 43        | 23.37                 | 23.49                    | 23.39                  | 23.5                |
| 15              | QPSK       | 75      | 0         | 23.36                 | 23.47                    | 23.35                  |                     |
| 15              | 16QAM      | 1       | 1         | 23.29                 | 23.41                    | 23.27                  | 23.5                |
| 15              | 64QAM      | 1       | 1         | 21.82                 | 21.93                    | 21.81                  | 22.0                |
| 15              | 256QAM     | 1       | 1         | 19.81                 | 19.96                    | 19.83                  | 20.0                |
| Channel         |            |         |           | 140800                | 141500                   | 142200                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 24.05                 | 24.08                    | 24.03                  | 24.5                |
| Channel         |            |         |           | 140300                | 141500                   | 142700                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 701.5                 | 707.5                    | 713.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 24.06                 | 24.11                    | 24.06                  | 24.5                |

<FR1 n12\_Ant 1\_Index 2/3>

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 141300                | 141500                   | 141700                 |                     |
| Frequency (MHz) |            |         |           | 706.5                 | 707.5                    | 708.5                  |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 21.33                 | 21.41                    | 21.36                  | 21.8                |
| 15              | PI/2 BPSK  | 1       | 40        | 21.29                 | 21.35                    | 21.21                  |                     |
| 15              | PI/2 BPSK  | 1       | 77        | 21.28                 | 21.35                    | 21.28                  |                     |
| 15              | PI/2 BPSK  | 36      | 0         | 21.23                 | 21.29                    | 21.13                  | 21.8                |
| 15              | PI/2 BPSK  | 36      | 22        | 21.37                 | 21.38                    | 21.29                  | 21.8                |
| 15              | PI/2 BPSK  | 36      | 43        | 21.23                 | 21.33                    | 21.16                  | 21.8                |
| 15              | PI/2 BPSK  | 75      | 0         | 21.26                 | 21.35                    | 21.16                  |                     |
| 15              | QPSK       | 1       | 1         | 21.35                 | 21.36                    | 21.35                  | 21.8                |
| 15              | QPSK       | 1       | 40        | 21.30                 | 21.30                    | 21.24                  |                     |
| 15              | QPSK       | 1       | 77        | 21.30                 | 21.32                    | 21.27                  |                     |
| 15              | QPSK       | 36      | 0         | 21.19                 | 21.27                    | 21.15                  | 21.8                |
| 15              | QPSK       | 36      | 22        | 21.28                 | 21.29                    | 21.28                  | 21.8                |
| 15              | QPSK       | 36      | 43        | 21.15                 | 21.22                    | 21.10                  | 21.8                |
| 15              | QPSK       | 75      | 0         | 21.15                 | 21.23                    | 21.15                  |                     |
| 15              | 16QAM      | 1       | 1         | 21.25                 | 21.30                    | 21.18                  | 21.8                |
| 15              | 64QAM      | 1       | 1         | 21.23                 | 21.32                    | 21.21                  | 21.8                |
| 15              | 256QAM     | 1       | 1         | 19.28                 | 19.29                    | 19.22                  | 20.0                |
| Channel         |            |         |           | 140800                | 141500                   | 142200                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 21.17                 | 21.39                    | 21.30                  | 21.8                |
| Channel         |            |         |           | 140300                | 141500                   | 142700                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 701.5                 | 707.5                    | 713.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 21.10                 | 21.26                    | 21.14                  | 21.8                |



**<FR1 n13\_Ant 1\_Index 1>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 156400                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 782                      |                        |                     |
| 10              | PI/2 BPSK  | 1       | 1         |                       | 23.83                    |                        | 24.5                |
| 10              | PI/2 BPSK  | 1       | 26        |                       | 23.80                    |                        |                     |
| 10              | PI/2 BPSK  | 1       | 50        |                       | 23.80                    |                        |                     |
| 10              | PI/2 BPSK  | 25      | 0         |                       | 23.29                    |                        | 24.0                |
| 10              | PI/2 BPSK  | 25      | 14        |                       | 23.75                    |                        | 24.5                |
| 10              | PI/2 BPSK  | 25      | 27        |                       | 23.30                    |                        | 24.0                |
| 10              | PI/2 BPSK  | 50      | 0         |                       | 23.33                    |                        |                     |
| 10              | QPSK       | 1       | 1         |                       | 23.79                    |                        | 24.5                |
| 10              | QPSK       | 1       | 26        |                       | 23.75                    |                        |                     |
| 10              | QPSK       | 1       | 50        |                       | 23.78                    |                        |                     |
| 10              | QPSK       | 25      | 0         |                       | 22.85                    |                        | 23.5                |
| 10              | QPSK       | 25      | 14        |                       | 23.77                    |                        | 24.5                |
| 10              | QPSK       | 25      | 27        |                       | 22.83                    |                        | 23.5                |
| 10              | QPSK       | 50      | 0         |                       | 22.81                    |                        |                     |
| 10              | 16QAM      | 1       | 1         |                       | 22.98                    |                        | 23.5                |
| 10              | 64QAM      | 1       | 1         |                       | 21.24                    |                        | 22.0                |
| 10              | 256QAM     | 1       | 1         |                       | 19.20                    |                        | 20.0                |
| Channel         |            |         |           | 155900                | 156400                   | 156900                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 779.5                 | 782                      | 784.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 23.71                 | 23.82                    | 23.75                  | 24.5                |

**<FR1 n13\_Ant 1\_Index 2/3>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 156400                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 782                      |                        |                     |
| 10              | PI/2 BPSK  | 1       | 1         |                       | 21.45                    |                        | 22.2                |
| 10              | PI/2 BPSK  | 1       | 26        |                       | 21.35                    |                        |                     |
| 10              | PI/2 BPSK  | 1       | 50        |                       | 21.40                    |                        |                     |
| 10              | PI/2 BPSK  | 25      | 0         |                       | 21.42                    |                        | 22.2                |
| 10              | PI/2 BPSK  | 25      | 14        |                       | 21.43                    |                        | 22.2                |
| 10              | PI/2 BPSK  | 25      | 27        |                       | 21.36                    |                        | 22.2                |
| 10              | PI/2 BPSK  | 50      | 0         |                       | 21.37                    |                        |                     |
| 10              | QPSK       | 1       | 1         |                       | 21.39                    |                        | 22.2                |
| 10              | QPSK       | 1       | 26        |                       | 21.32                    |                        |                     |
| 10              | QPSK       | 1       | 50        |                       | 21.24                    |                        |                     |
| 10              | QPSK       | 25      | 0         |                       | 21.25                    |                        | 22.2                |
| 10              | QPSK       | 25      | 14        |                       | 21.28                    |                        | 22.2                |
| 10              | QPSK       | 25      | 27        |                       | 21.27                    |                        | 22.2                |
| 10              | QPSK       | 50      | 0         |                       | 21.23                    |                        |                     |
| 10              | 16QAM      | 1       | 1         |                       | 21.34                    |                        | 22.2                |
| 10              | 64QAM      | 1       | 1         |                       | 21.30                    |                        | 22.0                |
| 10              | 256QAM     | 1       | 1         |                       | 19.30                    |                        | 20.0                |
| Channel         |            |         |           | 155900                | 156400                   | 156900                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 779.5                 | 782                      | 784.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 21.41                 | 21.42                    | 21.36                  | 22.2                |



**<FR1 n14\_Ant 1\_Index 1>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 158600                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 793                      |                        |                     |
| 10              | PI/2 BPSK  | 1       | 1         |                       | 24.05                    |                        | 24.5                |
| 10              | PI/2 BPSK  | 1       | 26        |                       | 24.02                    |                        |                     |
| 10              | PI/2 BPSK  | 1       | 50        |                       | 23.91                    |                        |                     |
| 10              | PI/2 BPSK  | 25      | 0         |                       | 23.97                    |                        | 24.0                |
| 10              | PI/2 BPSK  | 25      | 14        |                       | 24.04                    |                        | 24.5                |
| 10              | PI/2 BPSK  | 25      | 27        |                       | 23.96                    |                        | 24.0                |
| 10              | PI/2 BPSK  | 50      | 0         |                       | 23.98                    |                        |                     |
| 10              | QPSK       | 1       | 1         |                       | 24.03                    |                        | 24.5                |
| 10              | QPSK       | 1       | 26        |                       | 24.02                    |                        |                     |
| 10              | QPSK       | 1       | 50        |                       | 23.92                    |                        |                     |
| 10              | QPSK       | 25      | 0         |                       | 23.45                    |                        | 23.5                |
| 10              | QPSK       | 25      | 14        |                       | 24.03                    |                        | 24.5                |
| 10              | QPSK       | 25      | 27        |                       | 23.32                    |                        | 23.5                |
| 10              | QPSK       | 50      | 0         |                       | 23.47                    |                        |                     |
| 10              | 16QAM      | 1       | 1         |                       | 23.43                    |                        | 23.5                |
| 10              | 64QAM      | 1       | 1         |                       | 21.94                    |                        | 22.0                |
| 10              | 256QAM     | 1       | 1         |                       | 19.90                    |                        | 20.0                |
| Channel         |            |         |           | 158100                | 158600                   | 159100                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 790.5                 | 793                      | 795.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 24.02                 | 24.04                    | 24.03                  | 24.5                |

**<FR1 n14\_Ant 1\_Index 2/3>**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 158600                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 793                      |                        |                     |
| 10              | PI/2 BPSK  | 1       | 1         |                       | 21.57                    |                        | 22.3                |
| 10              | PI/2 BPSK  | 1       | 26        |                       | 21.52                    |                        |                     |
| 10              | PI/2 BPSK  | 1       | 50        |                       | 21.48                    |                        |                     |
| 10              | PI/2 BPSK  | 25      | 0         |                       | 21.49                    |                        | 22.3                |
| 10              | PI/2 BPSK  | 25      | 14        |                       | 21.53                    |                        | 22.3                |
| 10              | PI/2 BPSK  | 25      | 27        |                       | 21.51                    |                        | 22.3                |
| 10              | PI/2 BPSK  | 50      | 0         |                       | 21.49                    |                        |                     |
| 10              | QPSK       | 1       | 1         |                       | 21.52                    |                        | 22.3                |
| 10              | QPSK       | 1       | 26        |                       | 21.50                    |                        |                     |
| 10              | QPSK       | 1       | 50        |                       | 21.45                    |                        |                     |
| 10              | QPSK       | 25      | 0         |                       | 21.46                    |                        | 22.3                |
| 10              | QPSK       | 25      | 14        |                       | 21.48                    |                        | 22.3                |
| 10              | QPSK       | 25      | 27        |                       | 21.43                    |                        | 22.3                |
| 10              | QPSK       | 50      | 0         |                       | 21.41                    |                        |                     |
| 10              | 16QAM      | 1       | 1         |                       | 21.50                    |                        | 22.3                |
| 10              | 64QAM      | 1       | 1         |                       | 21.46                    |                        | 22.0                |
| 10              | 256QAM     | 1       | 1         |                       | 19.44                    |                        | 20.0                |
| Channel         |            |         |           | 158100                | 158600                   | 159100                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 790.5                 | 793                      | 795.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 21.50                 | 21.54                    | 21.52                  | 22.3                |



<FR1 n25\_Ant 1\_Index 1>

| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         | 374000                | 376500                   | 379000                 |                     |
| Frequency (MHz) | 1870                  | 1882.5                   | 1895                   |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 24.27               |
| 40              | PI/2 BPSK             | 1                        | 108                    | 24.22               |
| 40              | PI/2 BPSK             | 1                        | 214                    | 24.13               |
| 40              | PI/2 BPSK             | 108                      | 0                      | 23.75               |
| 40              | PI/2 BPSK             | 108                      | 54                     | 24.24               |
| 40              | PI/2 BPSK             | 108                      | 108                    | 23.71               |
| 40              | PI/2 BPSK             | 216                      | 0                      | 23.59               |
| 40              | QPSK                  | 1                        | 1                      | 24.23               |
| 40              | QPSK                  | 1                        | 108                    | 24.16               |
| 40              | QPSK                  | 1                        | 214                    | 24.15               |
| 40              | QPSK                  | 108                      | 0                      | 23.18               |
| 40              | QPSK                  | 108                      | 54                     | 24.17               |
| 40              | QPSK                  | 108                      | 108                    | 23.26               |
| 40              | QPSK                  | 216                      | 0                      | 23.16               |
| 40              | 16QAM                 | 1                        | 1                      | 23.36               |
| 40              | 64QAM                 | 1                        | 1                      | 21.83               |
| 40              | 256QAM                | 1                        | 1                      | 19.86               |
| Channel         | 373000                | 376500                   | 380000                 |                     |
| Frequency (MHz) | 1865                  | 1882.5                   | 1900                   |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 24.19               |
| Channel         | 372500                | 376500                   | 380500                 |                     |
| Frequency (MHz) | 1862.5                | 1882.5                   | 1902.5                 |                     |
| 25              | PI/2 BPSK             | 1                        | 1                      | 24.19               |
| Channel         | 372000                | 376500                   | 381000                 |                     |
| Frequency (MHz) | 1860                  | 1882.5                   | 1905                   |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 24.19               |
| Channel         | 371500                | 376500                   | 381500                 |                     |
| Frequency (MHz) | 1857.5                | 1882.5                   | 1907.5                 |                     |
| 15              | PI/2 BPSK             | 1                        | 1                      | 24.21               |
| Channel         | 371000                | 376500                   | 382000                 |                     |
| Frequency (MHz) | 1855                  | 1882.5                   | 1910                   |                     |
| 10              | PI/2 BPSK             | 1                        | 1                      | 24.16               |
| Channel         | 370500                | 376500                   | 382500                 |                     |
| Frequency (MHz) | 1852.5                | 1882.5                   | 1912.5                 |                     |
| 5               | PI/2 BPSK             | 1                        | 1                      | 24.26               |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         | 374000                | 376500                   | 379000                 |                     |
| Frequency (MHz) | 1870                  | 1882.5                   | 1895                   |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 17.23               |
| 40              | PI/2 BPSK             | 1                        | 108                    | 17.17               |
| 40              | PI/2 BPSK             | 1                        | 214                    | 17.12               |
| 40              | PI/2 BPSK             | 108                      | 0                      | 17.13               |
| 40              | PI/2 BPSK             | 108                      | 54                     | 17.18               |
| 40              | PI/2 BPSK             | 108                      | 108                    | 17.17               |
| 40              | PI/2 BPSK             | 216                      | 0                      | 17.16               |
| 40              | QPSK                  | 1                        | 1                      | 17.16               |
| 40              | QPSK                  | 1                        | 108                    | 17.16               |
| 40              | QPSK                  | 1                        | 214                    | 17.10               |
| 40              | QPSK                  | 108                      | 0                      | 17.12               |
| 40              | QPSK                  | 108                      | 54                     | 17.12               |
| 40              | QPSK                  | 108                      | 108                    | 17.09               |
| 40              | QPSK                  | 216                      | 0                      | 17.10               |
| 40              | 16QAM                 | 1                        | 1                      | 17.15               |
| 40              | 64QAM                 | 1                        | 1                      | 17.16               |
| 40              | 256QAM                | 1                        | 1                      | 17.12               |
| Channel         | 373000                | 376500                   | 380000                 |                     |
| Frequency (MHz) | 1865                  | 1882.5                   | 1900                   |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 17.11               |
| Channel         | 372500                | 376500                   | 380500                 |                     |
| Frequency (MHz) | 1862.5                | 1882.5                   | 1902.5                 |                     |
| 25              | PI/2 BPSK             | 1                        | 1                      | 17.10               |
| Channel         | 372000                | 376500                   | 381000                 |                     |
| Frequency (MHz) | 1860                  | 1882.5                   | 1905                   |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 17.09               |
| Channel         | 371500                | 376500                   | 381500                 |                     |
| Frequency (MHz) | 1857.5                | 1882.5                   | 1907.5                 |                     |
| 15              | PI/2 BPSK             | 1                        | 1                      | 17.07               |
| Channel         | 371000                | 376500                   | 382000                 |                     |
| Frequency (MHz) | 1855                  | 1882.5                   | 1910                   |                     |
| 10              | PI/2 BPSK             | 1                        | 1                      | 17.13               |
| Channel         | 370500                | 376500                   | 382500                 |                     |
| Frequency (MHz) | 1852.5                | 1882.5                   | 1912.5                 |                     |
| 5               | PI/2 BPSK             | 1                        | 1                      | 17.13               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 374000                | 376500                   | 379000                 |                     |
| Frequency (MHz) |            |         |           | 1870                  | 1882.5                   | 1895                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 24.11                 | 24.20                    | 24.07                  | 24.5                |
| 40              | PI/2 BPSK  | 1       | 108       | 24.02                 | 24.16                    | 24.04                  |                     |
| 40              | PI/2 BPSK  | 1       | 214       | 24.00                 | 24.12                    | 24.00                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 23.61                 | 23.66                    | 23.55                  | 24.0                |
| 40              | PI/2 BPSK  | 108     | 54        | 24.00                 | 24.09                    | 24.05                  | 24.5                |
| 40              | PI/2 BPSK  | 108     | 108       | 23.49                 | 23.57                    | 23.46                  | 24.0                |
| 40              | PI/2 BPSK  | 216     | 0         | 23.50                 | 23.62                    | 23.48                  |                     |
| 40              | QPSK       | 1       | 1         | 24.09                 | 24.17                    | 24.04                  | 24.5                |
| 40              | QPSK       | 1       | 108       | 24.03                 | 24.13                    | 24.09                  |                     |
| 40              | QPSK       | 1       | 214       | 23.97                 | 24.07                    | 24.02                  |                     |
| 40              | QPSK       | 108     | 0         | 23.16                 | 23.22                    | 23.08                  | 23.5                |
| 40              | QPSK       | 108     | 54        | 24.07                 | 24.12                    | 24.04                  | 24.5                |
| 40              | QPSK       | 108     | 108       | 22.98                 | 23.08                    | 22.99                  | 23.5                |
| 40              | QPSK       | 216     | 0         | 23.13                 | 23.17                    | 23.11                  |                     |
| 40              | 16QAM      | 1       | 1         | 23.40                 | 23.48                    | 23.39                  | 23.5                |
| 40              | 64QAM      | 1       | 1         | 21.65                 | 21.71                    | 21.61                  | 22.0                |
| 40              | 256QAM     | 1       | 1         | 19.65                 | 19.69                    | 19.62                  | 20.0                |
| Channel         |            |         |           | 373000                | 376500                   | 380000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1865                  | 1882.5                   | 1900                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 24.09                 | 24.17                    | 24.02                  | 24.5                |
| Channel         |            |         |           | 372500                | 376500                   | 380500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1862.5                | 1882.5                   | 1902.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 24.08                 | 24.11                    | 24.00                  | 24.5                |
| Channel         |            |         |           | 372000                | 376500                   | 381000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1860                  | 1882.5                   | 1905                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 24.09                 | 24.11                    | 24.03                  | 24.5                |
| Channel         |            |         |           | 371500                | 376500                   | 381500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5                | 1882.5                   | 1907.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 24.00                 | 24.09                    | 23.99                  | 24.5                |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                  | 1882.5                   | 1910                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 24.04                 | 24.15                    | 24.01                  | 24.5                |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5                | 1882.5                   | 1912.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 24.07                 | 24.15                    | 23.96                  | 24.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 374000                | 376500                   | 379000                 |                     |
| Frequency (MHz) |            |         |           | 1870                  | 1882.5                   | 1895                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 16.65                 | 16.72                    | 16.66                  | 17.3                |
| 40              | PI/2 BPSK  | 1       | 108       | 16.60                 | 16.65                    | 16.59                  |                     |
| 40              | PI/2 BPSK  | 1       | 214       | 16.54                 | 16.61                    | 16.55                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 16.55                 | 16.63                    | 16.57                  | 17.3                |
| 40              | PI/2 BPSK  | 108     | 54        | 16.60                 | 16.67                    | 16.62                  | 17.3                |
| 40              | PI/2 BPSK  | 108     | 108       | 16.56                 | 16.63                    | 16.55                  | 17.3                |
| 40              | PI/2 BPSK  | 216     | 0         | 16.55                 | 16.65                    | 16.59                  |                     |
| 40              | QPSK       | 1       | 1         | 16.60                 | 16.67                    | 16.57                  | 17.3                |
| 40              | QPSK       | 1       | 108       | 16.56                 | 16.66                    | 16.61                  |                     |
| 40              | QPSK       | 1       | 214       | 16.58                 | 16.64                    | 16.57                  |                     |
| 40              | QPSK       | 108     | 0         | 16.52                 | 16.58                    | 16.51                  | 17.3                |
| 40              | QPSK       | 108     | 54        | 16.57                 | 16.62                    | 16.53                  | 17.3                |
| 40              | QPSK       | 108     | 108       | 16.49                 | 16.57                    | 16.49                  | 17.3                |
| 40              | QPSK       | 216     | 0         | 16.45                 | 16.55                    | 16.49                  |                     |
| 40              | 16QAM      | 1       | 1         | 16.57                 | 16.62                    | 16.52                  | 17.3                |
| 40              | 64QAM      | 1       | 1         | 16.53                 | 16.63                    | 16.53                  | 17.3                |
| 40              | 256QAM     | 1       | 1         | 16.51                 | 16.59                    | 16.50                  | 17.3                |
| Channel         |            |         |           | 373000                | 376500                   | 380000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1865                  | 1882.5                   | 1900                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 16.45                 | 16.59                    | 16.52                  | 17.3                |
| Channel         |            |         |           | 372500                | 376500                   | 380500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1862.5                | 1882.5                   | 1902.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 16.52                 | 16.52                    | 16.56                  | 17.3                |
| Channel         |            |         |           | 372000                | 376500                   | 381000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1860                  | 1882.5                   | 1905                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 16.54                 | 16.52                    | 16.51                  | 17.3                |
| Channel         |            |         |           | 371500                | 376500                   | 381500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5                | 1882.5                   | 1907.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 16.53                 | 16.59                    | 16.48                  | 17.3                |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                  | 1882.5                   | 1910                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 16.46                 | 16.60                    | 16.55                  | 17.3                |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5                | 1882.5                   | 1912.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 16.46                 | 16.60                    | 16.50                  | 17.3                |





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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 164800                | 166300                   | 167800                 |                     |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 24.15                 | 24.43                    | 24.29                  | 24.5                |
| 20              | PI/2 BPSK  | 1       | 53        | 24.09                 | 24.40                    | 24.25                  |                     |
| 20              | PI/2 BPSK  | 1       | 104       | 24.06                 | 24.36                    | 24.25                  |                     |
| 20              | PI/2 BPSK  | 50      | 0         | 23.60                 | 23.87                    | 23.75                  | 24.0                |
| 20              | PI/2 BPSK  | 50      | 28        | 24.09                 | 24.41                    | 24.21                  | 24.5                |
| 20              | PI/2 BPSK  | 50      | 56        | 23.55                 | 23.90                    | 23.80                  | 24.0                |
| 20              | PI/2 BPSK  | 100     | 0         | 23.66                 | 23.95                    | 23.82                  |                     |
| 20              | QPSK       | 1       | 1         | 24.17                 | 24.42                    | 24.22                  | 24.5                |
| 20              | QPSK       | 1       | 53        | 24.02                 | 24.37                    | 24.19                  |                     |
| 20              | QPSK       | 1       | 104       | 24.12                 | 24.39                    | 24.20                  |                     |
| 20              | QPSK       | 50      | 0         | 23.11                 | 23.42                    | 23.30                  | 23.5                |
| 20              | QPSK       | 50      | 28        | 24.14                 | 24.41                    | 24.27                  | 24.5                |
| 20              | QPSK       | 50      | 56        | 23.12                 | 23.42                    | 23.28                  | 23.5                |
| 20              | QPSK       | 100     | 0         | 23.16                 | 23.49                    | 23.34                  |                     |
| 20              | 16QAM      | 1       | 1         | 23.15                 | 23.44                    | 23.26                  | 23.5                |
| 20              | 64QAM      | 1       | 1         | 21.66                 | 21.99                    | 21.82                  | 22.0                |
| 20              | 256QAM     | 1       | 1         | 19.57                 | 19.82                    | 19.66                  | 20.0                |
| Channel         |            |         |           | 164300                | 166300                   | 168300                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 24.07                 | 24.38                    | 24.24                  | 24.5                |
| Channel         |            |         |           | 163800                | 166300                   | 168800                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 24.13                 | 24.36                    | 24.21                  | 24.5                |
| Channel         |            |         |           | 163300                | 166300                   | 169300                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 24.05                 | 24.32                    | 24.20                  | 24.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 164800                | 166300                   | 167800                 |                     |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 20.47                 | 20.53                    | 20.41                  | 21.1                |
| 20              | PI/2 BPSK  | 1       | 53        | 20.44                 | 20.49                    | 20.44                  |                     |
| 20              | PI/2 BPSK  | 1       | 104       | 20.44                 | 20.50                    | 20.45                  |                     |
| 20              | PI/2 BPSK  | 50      | 0         | 20.39                 | 20.45                    | 20.40                  | 21.1                |
| 20              | PI/2 BPSK  | 50      | 28        | 20.43                 | 20.49                    | 20.43                  | 21.1                |
| 20              | PI/2 BPSK  | 50      | 56        | 20.39                 | 20.44                    | 20.37                  | 21.1                |
| 20              | PI/2 BPSK  | 100     | 0         | 20.42                 | 20.48                    | 20.41                  |                     |
| 20              | QPSK       | 1       | 1         | 20.42                 | 20.47                    | 20.42                  | 21.1                |
| 20              | QPSK       | 1       | 53        | 20.33                 | 20.41                    | 20.34                  |                     |
| 20              | QPSK       | 1       | 104       | 20.26                 | 20.34                    | 20.29                  |                     |
| 20              | QPSK       | 50      | 0         | 20.38                 | 20.43                    | 20.36                  | 21.1                |
| 20              | QPSK       | 50      | 28        | 20.40                 | 20.46                    | 20.39                  | 21.1                |
| 20              | QPSK       | 50      | 56        | 20.36                 | 20.41                    | 20.35                  | 21.1                |
| 20              | QPSK       | 100     | 0         | 20.34                 | 20.39                    | 20.33                  |                     |
| 20              | 16QAM      | 1       | 1         | 20.36                 | 20.42                    | 20.37                  | 21.1                |
| 20              | 64QAM      | 1       | 1         | 20.38                 | 20.45                    | 20.37                  | 21.1                |
| 20              | 256QAM     | 1       | 1         | 19.73                 | 19.78                    | 19.72                  | 20.0                |
| Channel         |            |         |           | 164300                | 166300                   | 168300                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 20.33                 | 20.42                    | 20.30                  | 21.1                |
| Channel         |            |         |           | 163800                | 166300                   | 168800                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 20.33                 | 20.41                    | 20.21                  | 21.1                |
| Channel         |            |         |           | 163300                | 166300                   | 169300                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 20.32                 | 20.38                    | 20.24                  | 21.1                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 462000                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 2310                     |                        |                     |
| 10              | PI/2 BPSK  | 1       | 1         |                       | 22.96                    |                        | 23.0                |
| 10              | PI/2 BPSK  | 1       | 26        |                       | 22.95                    |                        |                     |
| 10              | PI/2 BPSK  | 1       | 50        |                       | 22.94                    |                        |                     |
| 10              | PI/2 BPSK  | 25      | 0         |                       | 22.42                    |                        | 22.5                |
| 10              | PI/2 BPSK  | 25      | 14        |                       | 22.88                    |                        | 23.0                |
| 10              | PI/2 BPSK  | 25      | 27        |                       | 22.40                    |                        | 22.5                |
| 10              | PI/2 BPSK  | 50      | 0         |                       | 22.38                    |                        |                     |
| 10              | QPSK       | 1       | 1         |                       | 22.95                    |                        | 23.0                |
| 10              | QPSK       | 1       | 26        |                       | 22.93                    |                        |                     |
| 10              | QPSK       | 1       | 50        |                       | 22.87                    |                        |                     |
| 10              | QPSK       | 25      | 0         |                       | 21.92                    |                        | 22.0                |
| 10              | QPSK       | 25      | 14        |                       | 22.95                    |                        | 23.0                |
| 10              | QPSK       | 25      | 27        |                       | 21.94                    |                        | 22.0                |
| 10              | QPSK       | 50      | 0         |                       | 21.93                    |                        |                     |
| 10              | 16QAM      | 1       | 1         |                       | 21.93                    |                        | 22.0                |
| 10              | 64QAM      | 1       | 1         |                       | 20.47                    |                        | 20.5                |
| 10              | 256QAM     | 1       | 1         |                       | 18.33                    |                        | 18.5                |
| Channel         |            |         |           | 461500                | 462000                   | 462500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 22.91                 | 22.88                    | 22.93                  | 23.0                |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 462000                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 2310                     |                        |                     |
| 10              | PI/2 BPSK  | 1       | 1         |                       | 17.51                    |                        | 17.9                |
| 10              | PI/2 BPSK  | 1       | 26        |                       | 17.42                    |                        |                     |
| 10              | PI/2 BPSK  | 1       | 50        |                       | 17.46                    |                        |                     |
| 10              | PI/2 BPSK  | 25      | 0         |                       | 17.41                    |                        | 17.9                |
| 10              | PI/2 BPSK  | 25      | 14        |                       | 17.44                    |                        | 17.9                |
| 10              | PI/2 BPSK  | 25      | 27        |                       | 17.43                    |                        | 17.9                |
| 10              | PI/2 BPSK  | 50      | 0         |                       | 17.43                    |                        |                     |
| 10              | QPSK       | 1       | 1         |                       | 17.47                    |                        | 17.9                |
| 10              | QPSK       | 1       | 26        |                       | 17.45                    |                        |                     |
| 10              | QPSK       | 1       | 50        |                       | 17.42                    |                        |                     |
| 10              | QPSK       | 25      | 0         |                       | 17.46                    |                        | 17.9                |
| 10              | QPSK       | 25      | 14        |                       | 17.43                    |                        | 17.9                |
| 10              | QPSK       | 25      | 27        |                       | 17.40                    |                        | 17.9                |
| 10              | QPSK       | 50      | 0         |                       | 17.42                    |                        |                     |
| 10              | 16QAM      | 1       | 1         |                       | 17.45                    |                        | 17.9                |
| 10              | 64QAM      | 1       | 1         |                       | 17.43                    |                        | 17.9                |
| 10              | 256QAM     | 1       | 1         |                       | 17.44                    |                        | 17.9                |
| Channel         |            |         |           | 461500                | 462000                   | 462500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 17.40                 | 17.45                    | 17.45                  | 17.9                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 346000                | 349000                   | 352000                 |                     |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 24.01                 | 24.08                    | 24.04                  | 24.5                |
| 40              | PI/2 BPSK  | 1       | 108       | 23.96                 | 24.00                    | 23.96                  |                     |
| 40              | PI/2 BPSK  | 1       | 214       | 24.00                 | 24.03                    | 23.93                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 23.45                 | 23.57                    | 23.49                  | 24.0                |
| 40              | PI/2 BPSK  | 108     | 54        | 23.92                 | 24.01                    | 23.88                  | 24.5                |
| 40              | PI/2 BPSK  | 108     | 108       | 23.45                 | 23.58                    | 23.45                  | 24.0                |
| 40              | PI/2 BPSK  | 216     | 0         | 23.43                 | 23.55                    | 23.46                  |                     |
| 40              | QPSK       | 1       | 1         | 23.93                 | 24.02                    | 23.99                  | 24.5                |
| 40              | QPSK       | 1       | 108       | 23.89                 | 23.99                    | 23.94                  |                     |
| 40              | QPSK       | 1       | 214       | 23.95                 | 24.01                    | 23.97                  |                     |
| 40              | QPSK       | 108     | 0         | 22.93                 | 23.01                    | 22.90                  | 23.5                |
| 40              | QPSK       | 108     | 54        | 23.93                 | 24.04                    | 23.91                  | 24.5                |
| 40              | QPSK       | 108     | 108       | 22.96                 | 23.07                    | 23.04                  | 23.5                |
| 40              | QPSK       | 216     | 0         | 22.95                 | 23.05                    | 22.94                  |                     |
| 40              | 16QAM      | 1       | 1         | 23.38                 | 23.42                    | 23.30                  | 23.5                |
| 40              | 64QAM      | 1       | 1         | 21.48                 | 21.61                    | 21.58                  | 22.0                |
| 40              | 256QAM     | 1       | 1         | 19.38                 | 19.44                    | 19.38                  | 20.0                |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 23.96                 | 24.01                    | 23.92                  | 24.5                |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 23.93                 | 24.03                    | 23.97                  | 24.5                |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 23.99                 | 24.02                    | 23.94                  | 24.5                |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 23.93                 | 24.02                    | 24.00                  | 24.5                |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 23.93                 | 23.97                    | 24.00                  | 24.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 346000                | 349000                   | 352000                 | 16.0                |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 15.22                 | 15.28                    | 15.23                  |                     |
| 40              | PI/2 BPSK  | 1       | 108       | 15.13                 | 15.21                    | 15.11                  | 16.0                |
| 40              | PI/2 BPSK  | 1       | 214       | 15.16                 | 15.23                    | 15.14                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 15.13                 | 15.20                    | 15.13                  | 16.0                |
| 40              | PI/2 BPSK  | 108     | 54        | 15.19                 | 15.25                    | 15.15                  | 16.0                |
| 40              | PI/2 BPSK  | 108     | 108       | 15.14                 | 15.23                    | 15.16                  | 16.0                |
| 40              | PI/2 BPSK  | 216     | 0         | 15.15                 | 15.22                    | 15.13                  |                     |
| 40              | QPSK       | 1       | 1         | 15.18                 | 15.26                    | 15.16                  | 16.0                |
| 40              | QPSK       | 1       | 108       | 15.13                 | 15.20                    | 15.12                  |                     |
| 40              | QPSK       | 1       | 214       | 15.13                 | 15.18                    | 15.13                  |                     |
| 40              | QPSK       | 108     | 0         | 15.11                 | 15.20                    | 15.14                  | 16.0                |
| 40              | QPSK       | 108     | 54        | 15.19                 | 15.24                    | 15.14                  | 16.0                |
| 40              | QPSK       | 108     | 108       | 15.14                 | 15.21                    | 15.12                  | 16.0                |
| 40              | QPSK       | 216     | 0         | 15.09                 | 15.19                    | 15.13                  |                     |
| 40              | 16QAM      | 1       | 1         | 15.16                 | 15.21                    | 15.16                  | 16.0                |
| 40              | 64QAM      | 1       | 1         | 15.16                 | 15.23                    | 15.13                  | 16.0                |
| 40              | 256QAM     | 1       | 1         | 15.09                 | 15.16                    | 15.11                  | 16.0                |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 15.04                 | 15.14                    | 15.11                  | 16.0                |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 15.10                 | 15.17                    | 15.05                  | 16.0                |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 15.09                 | 15.17                    | 15.13                  | 16.0                |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 15.12                 | 15.16                    | 15.12                  | 16.0                |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 15.02                 | 15.14                    | 15.10                  | 16.0                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 346000                | 349000                   | 352000                 |                     |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 24.00                 | 24.10                    | 24.06                  | 24.5                |
| 40              | PI/2 BPSK  | 1       | 108       | 23.98                 | 24.07                    | 24.05                  |                     |
| 40              | PI/2 BPSK  | 1       | 214       | 23.98                 | 24.09                    | 24.01                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 23.38                 | 23.50                    | 23.41                  | 24.0                |
| 40              | PI/2 BPSK  | 108     | 54        | 23.96                 | 24.07                    | 24.00                  | 24.5                |
| 40              | PI/2 BPSK  | 108     | 108       | 23.56                 | 23.63                    | 23.60                  | 24.0                |
| 40              | PI/2 BPSK  | 216     | 0         | 23.55                 | 23.63                    | 23.57                  |                     |
| 40              | QPSK       | 1       | 1         | 23.93                 | 24.08                    | 23.99                  | 24.5                |
| 40              | QPSK       | 1       | 108       | 23.97                 | 24.06                    | 23.98                  |                     |
| 40              | QPSK       | 1       | 214       | 23.92                 | 24.05                    | 24.05                  |                     |
| 40              | QPSK       | 108     | 0         | 23.01                 | 23.11                    | 23.02                  | 23.5                |
| 40              | QPSK       | 108     | 54        | 23.90                 | 24.03                    | 23.97                  | 24.5                |
| 40              | QPSK       | 108     | 108       | 22.96                 | 23.08                    | 23.02                  | 23.5                |
| 40              | QPSK       | 216     | 0         | 23.01                 | 23.11                    | 23.04                  |                     |
| 40              | 16QAM      | 1       | 1         | 23.35                 | 23.43                    | 23.33                  | 23.5                |
| 40              | 64QAM      | 1       | 1         | 21.50                 | 21.63                    | 21.63                  | 22.0                |
| 40              | 256QAM     | 1       | 1         | 19.34                 | 19.50                    | 19.41                  | 20.0                |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 23.90                 | 24.07                    | 23.96                  | 24.5                |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 23.98                 | 24.01                    | 24.05                  | 24.5                |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 23.95                 | 24.07                    | 23.98                  | 24.5                |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 23.98                 | 24.01                    | 24.01                  | 24.5                |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 23.98                 | 24.07                    | 24.04                  | 24.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 346000                | 349000                   | 352000                 |                     |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 16.65                 | 16.72                    | 16.63                  |                     |
| 40              | PI/2 BPSK  | 1       | 108       | 16.52                 | 16.62                    | 16.54                  | 17.1                |
| 40              | PI/2 BPSK  | 1       | 214       | 16.57                 | 16.66                    | 16.56                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 16.59                 | 16.68                    | 16.63                  | 17.1                |
| 40              | PI/2 BPSK  | 108     | 54        | 16.62                 | 16.70                    | 16.63                  | 17.1                |
| 40              | PI/2 BPSK  | 108     | 108       | 16.56                 | 16.63                    | 16.54                  | 17.1                |
| 40              | PI/2 BPSK  | 216     | 0         | 16.58                 | 16.64                    | 16.57                  |                     |
| 40              | QPSK       | 1       | 1         | 16.62                 | 16.67                    | 16.61                  | 17.1                |
| 40              | QPSK       | 1       | 108       | 16.50                 | 16.59                    | 16.52                  |                     |
| 40              | QPSK       | 1       | 214       | 16.50                 | 16.55                    | 16.46                  |                     |
| 40              | QPSK       | 108     | 0         | 16.53                 | 16.63                    | 16.54                  | 17.1                |
| 40              | QPSK       | 108     | 54        | 16.55                 | 16.64                    | 16.57                  | 17.1                |
| 40              | QPSK       | 108     | 108       | 16.54                 | 16.62                    | 16.56                  | 17.1                |
| 40              | QPSK       | 216     | 0         | 16.48                 | 16.58                    | 16.52                  |                     |
| 40              | 16QAM      | 1       | 1         | 16.51                 | 16.59                    | 16.54                  | 17.1                |
| 40              | 64QAM      | 1       | 1         | 16.54                 | 16.62                    | 16.57                  | 17.1                |
| 40              | 256QAM     | 1       | 1         | 16.52                 | 16.57                    | 16.51                  | 17.1                |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 16.48                 | 16.62                    | 16.52                  | 17.1                |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 16.53                 | 16.58                    | 16.43                  | 17.1                |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 16.46                 | 16.54                    | 16.45                  | 17.1                |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 16.51                 | 16.57                    | 16.46                  | 17.1                |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 16.47                 | 16.58                    | 16.52                  | 17.1                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 134600                | 136100                   | 137600                 |                     |
| Frequency (MHz) |            |         |           | 673                   | 680.5                    | 688                    |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 23.95                 | 24.10                    | 24.09                  | 24.5                |
| 20              | PI/2 BPSK  | 1       | 53        | 23.94                 | 24.00                    | 23.92                  |                     |
| 20              | PI/2 BPSK  | 1       | 104       | 23.81                 | 23.96                    | 23.95                  |                     |
| 20              | PI/2 BPSK  | 50      | 0         | 23.44                 | 23.53                    | 23.48                  | 24.0                |
| 20              | PI/2 BPSK  | 50      | 28        | 23.89                 | 24.07                    | 23.97                  | 24.5                |
| 20              | PI/2 BPSK  | 50      | 56        | 23.39                 | 23.54                    | 23.51                  | 24.0                |
| 20              | PI/2 BPSK  | 100     | 0         | 23.54                 | 23.60                    | 23.54                  |                     |
| 20              | QPSK       | 1       | 1         | 23.92                 | 24.05                    | 24.01                  | 24.5                |
| 20              | QPSK       | 1       | 53        | 23.94                 | 24.02                    | 23.93                  |                     |
| 20              | QPSK       | 1       | 104       | 23.93                 | 24.03                    | 23.99                  |                     |
| 20              | QPSK       | 50      | 0         | 22.78                 | 22.89                    | 22.88                  | 23.5                |
| 20              | QPSK       | 50      | 28        | 23.99                 | 24.04                    | 23.97                  | 24.5                |
| 20              | QPSK       | 50      | 56        | 22.90                 | 22.96                    | 22.93                  | 23.5                |
| 20              | QPSK       | 100     | 0         | 22.89                 | 23.01                    | 22.97                  |                     |
| 20              | 16QAM      | 1       | 1         | 23.14                 | 23.27                    | 23.20                  | 23.5                |
| 20              | 64QAM      | 1       | 1         | 21.34                 | 21.48                    | 21.46                  | 22.0                |
| 20              | 256QAM     | 1       | 1         | 19.17                 | 19.29                    | 19.26                  | 20.0                |
| Channel         |            |         |           | 134100                | 136100                   | 138100                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 23.92                 | 24.04                    | 24.00                  | 24.5                |
| Channel         |            |         |           | 133600                | 136100                   | 138600                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668                   | 680.5                    | 693                    |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 23.92                 | 24.04                    | 24.01                  | 24.5                |
| Channel         |            |         |           | 133100                | 136100                   | 139100                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5                 | 680.5                    | 695.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 23.86                 | 24.08                    | 24.01                  | 24.5                |





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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 134600                | 136100                   | 137600                 |                     |
| Frequency (MHz) |            |         |           | 673                   | 680.5                    | 688                    |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 21.82                 | 21.97                    | 21.93                  | 22.4                |
| 20              | PI/2 BPSK  | 1       | 53        | 21.90                 | 21.95                    | 21.90                  |                     |
| 20              | PI/2 BPSK  | 1       | 104       | 21.88                 | 21.94                    | 21.85                  |                     |
| 20              | PI/2 BPSK  | 50      | 0         | 21.79                 | 21.89                    | 21.80                  | 22.4                |
| 20              | PI/2 BPSK  | 50      | 28        | 21.88                 | 21.93                    | 21.85                  | 22.4                |
| 20              | PI/2 BPSK  | 50      | 56        | 21.82                 | 21.88                    | 21.82                  | 22.4                |
| 20              | PI/2 BPSK  | 100     | 0         | 21.87                 | 21.92                    | 21.86                  |                     |
| 20              | QPSK       | 1       | 1         | 21.89                 | 21.95                    | 21.88                  | 22.4                |
| 20              | QPSK       | 1       | 53        | 21.85                 | 21.90                    | 21.82                  |                     |
| 20              | QPSK       | 1       | 104       | 21.81                 | 21.87                    | 21.79                  |                     |
| 20              | QPSK       | 50      | 0         | 21.75                 | 21.83                    | 21.73                  | 22.4                |
| 20              | QPSK       | 50      | 28        | 21.82                 | 21.88                    | 21.83                  | 22.4                |
| 20              | QPSK       | 50      | 56        | 21.79                 | 21.84                    | 21.78                  | 22.4                |
| 20              | QPSK       | 100     | 0         | 21.77                 | 21.85                    | 21.75                  |                     |
| 20              | 16QAM      | 1       | 1         | 21.76                 | 21.86                    | 21.78                  | 22.4                |
| 20              | 64QAM      | 1       | 1         | 21.31                 | 21.40                    | 21.32                  | 22.0                |
| 20              | 256QAM     | 1       | 1         | 19.20                 | 19.27                    | 19.21                  | 20.0                |
| Channel         |            |         |           | 134100                | 136100                   | 138100                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 21.66                 | 21.79                    | 21.74                  | 22.4                |
| Channel         |            |         |           | 133600                | 136100                   | 138600                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668                   | 680.5                    | 693                    |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 21.72                 | 21.77                    | 21.74                  | 22.4                |
| Channel         |            |         |           | 133100                | 136100                   | 139100                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5                 | 680.5                    | 695.5                  |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 21.67                 | 21.78                    | 21.75                  | 22.4                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 518000                | 519000                   | 520000                 |                     |
| Frequency (MHz) |            |         |           | 2590                  | 2595                     | 2600                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 23.78                 | 23.71                    | 23.74                  | 24.5                |
| 40              | PI/2 BPSK  | 1       | 53        | 23.73                 | 23.70                    | 23.69                  |                     |
| 40              | PI/2 BPSK  | 1       | 104       | 23.68                 | 23.69                    | 23.68                  |                     |
| 40              | PI/2 BPSK  | 50      | 0         | 23.06                 | 23.22                    | 23.07                  | 24.0                |
| 40              | PI/2 BPSK  | 50      | 28        | 23.73                 | 23.67                    | 23.69                  | 24.5                |
| 40              | PI/2 BPSK  | 50      | 56        | 23.30                 | 23.17                    | 23.11                  | 24.0                |
| 40              | PI/2 BPSK  | 100     | 0         | 23.23                 | 23.12                    | 23.06                  |                     |
| 40              | QPSK       | 1       | 1         | 23.72                 | 23.68                    | 23.63                  | 24.5                |
| 40              | QPSK       | 1       | 53        | 23.64                 | 23.63                    | 23.52                  |                     |
| 40              | QPSK       | 1       | 104       | 23.68                 | 23.66                    | 23.59                  |                     |
| 40              | QPSK       | 50      | 0         | 23.67                 | 23.61                    | 23.56                  | 24.5                |
| 40              | QPSK       | 50      | 28        | 23.65                 | 23.57                    | 23.53                  |                     |
| 40              | QPSK       | 50      | 56        | 23.65                 | 23.52                    | 23.54                  |                     |
| 40              | QPSK       | 100     | 0         | 22.71                 | 22.57                    | 22.56                  | 23.5                |
| 40              | 16QAM      | 1       | 1         | 22.71                 | 22.56                    | 22.58                  | 23.5                |
| 40              | 64QAM      | 1       | 1         | 21.22                 | 21.07                    | 21.12                  | 22.0                |
| 40              | 256QAM     | 1       | 1         | 19.24                 | 19.08                    | 19.08                  | 20.0                |
| Channel         |            |         |           | 517000                | 519000                   | 521000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2585                  | 2595                     | 2605                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 23.69                 | 23.66                    | 23.65                  | 24.5                |
| Channel         |            |         |           | 516000                | 519000                   | 522000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 23.74                 | 23.69                    | 23.65                  | 24.5                |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 518000                | 519000                   | 520000                 |                     |
| Frequency (MHz) |            |         |           | 2590                  | 2595                     | 2600                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 15.84                 | 15.73                    | 15.77                  | 16.8                |
| 40              | PI/2 BPSK  | 1       | 53        | 15.72                 | 15.53                    | 15.57                  |                     |
| 40              | PI/2 BPSK  | 1       | 104       | 15.77                 | 15.57                    | 15.64                  |                     |
| 40              | PI/2 BPSK  | 50      | 0         | 15.78                 | 15.58                    | 15.68                  | 16.8                |
| 40              | PI/2 BPSK  | 50      | 28        | 15.80                 | 15.65                    | 15.68                  | 16.8                |
| 40              | PI/2 BPSK  | 50      | 56        | 15.76                 | 15.64                    | 15.59                  | 16.8                |
| 40              | PI/2 BPSK  | 100     | 0         | 15.75                 | 15.64                    | 15.55                  |                     |
| 40              | QPSK       | 1       | 1         | 15.82                 | 15.68                    | 15.68                  | 16.8                |
| 40              | QPSK       | 1       | 53        | 15.80                 | 15.62                    | 15.65                  |                     |
| 40              | QPSK       | 1       | 104       | 15.79                 | 15.67                    | 15.66                  |                     |
| 40              | QPSK       | 50      | 0         | 15.73                 | 15.61                    | 15.58                  | 16.8                |
| 40              | QPSK       | 50      | 28        | 15.76                 | 15.58                    | 15.62                  |                     |
| 40              | QPSK       | 50      | 56        | 15.71                 | 15.52                    | 15.61                  |                     |
| 40              | QPSK       | 100     | 0         | 15.71                 | 15.60                    | 15.52                  | 16.8                |
| 40              | 16QAM      | 1       | 1         | 15.78                 | 15.66                    | 15.63                  | 16.8                |
| 40              | 64QAM      | 1       | 1         | 15.69                 | 15.57                    | 15.55                  | 16.8                |
| 40              | 256QAM     | 1       | 1         | 15.73                 | 15.59                    | 15.56                  | 16.8                |
| Channel         |            |         |           | 517000                | 519000                   | 521000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2585                  | 2595                     | 2605                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 15.69                 | 15.62                    | 15.67                  | 16.8                |
| Channel         |            |         |           | 516000                | 519000                   | 522000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 15.71                 | 15.60                    | 15.59                  | 16.8                |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |      |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|------|
| Channel         | 518000                | 519000                   | 520000                 |                     |      |
| Frequency (MHz) | 2590                  | 2595                     | 2600                   |                     |      |
| 40              | PI/2 BPSK             | 1                        | 1                      | 14.11               | 14.5 |
| 40              | PI/2 BPSK             | 1                        | 53                     | 14.03               |      |
| 40              | PI/2 BPSK             | 1                        | 104                    | 14.06               |      |
| 40              | PI/2 BPSK             | 50                       | 0                      | 14.05               | 14.5 |
| 40              | PI/2 BPSK             | 50                       | 28                     | 14.09               | 14.5 |
| 40              | PI/2 BPSK             | 50                       | 56                     | 14.06               | 14.5 |
| 40              | PI/2 BPSK             | 100                      | 0                      | 14.08               |      |
| 40              | QPSK                  | 1                        | 1                      | 14.10               | 14.5 |
| 40              | QPSK                  | 1                        | 53                     | 14.07               |      |
| 40              | QPSK                  | 1                        | 104                    | 14.06               |      |
| 40              | QPSK                  | 50                       | 0                      | 14.03               | 14.5 |
| 40              | QPSK                  | 50                       | 28                     | 14.08               |      |
| 40              | QPSK                  | 50                       | 56                     | 14.02               |      |
| 40              | QPSK                  | 100                      | 0                      | 14.03               | 14.5 |
| 40              | 16QAM                 | 1                        | 1                      | 14.05               | 14.5 |
| 40              | 64QAM                 | 1                        | 1                      | 14.06               | 14.5 |
| 40              | 256QAM                | 1                        | 1                      | 14.00               | 14.5 |
| Channel         | 517000                | 519000                   | 521000                 | Tune-up limit (dBm) |      |
| Frequency (MHz) | 2585                  | 2595                     | 2605                   |                     |      |
| 30              | PI/2 BPSK             | 1                        | 1                      | 13.91               | 14.5 |
| Channel         | 516000                | 519000                   | 522000                 | Tune-up limit (dBm) |      |
| Frequency (MHz) | 2580                  | 2595                     | 2610                   |                     |      |
| 20              | PI/2 BPSK             | 1                        | 1                      | 13.96               | 14.5 |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 23.18                 | 23.20                    | 23.16                  | 24.5                |
| 100             | PI/2 BPSK  | 1       | 137       | 22.98                 | 23.08                    | 22.98                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 23.07                 | 23.12                    | 23.00                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 23.08                 | 23.11                    | 23.05                  | 24.5                |
| 100             | PI/2 BPSK  | 135     | 69        | 23.16                 | 23.18                    | 23.15                  | 24.5                |
| 100             | PI/2 BPSK  | 135     | 138       | 23.11                 | 23.15                    | 23.03                  | 24.5                |
| 100             | PI/2 BPSK  | 270     | 0         | 23.06                 | 23.10                    | 23.08                  |                     |
| 100             | QPSK       | 1       | 1         | 23.09                 | 23.12                    | 23.10                  | 24.5                |
| 100             | QPSK       | 1       | 137       | 23.01                 | 23.11                    | 23.02                  |                     |
| 100             | QPSK       | 1       | 271       | 23.04                 | 23.09                    | 23.07                  |                     |
| 100             | QPSK       | 135     | 0         | 22.91                 | 23.04                    | 23.05                  | 24.5                |
| 100             | QPSK       | 135     | 69        | 22.97                 | 23.11                    | 22.97                  |                     |
| 100             | QPSK       | 135     | 138       | 22.93                 | 23.05                    | 22.94                  |                     |
| 100             | QPSK       | 270     | 0         | 22.91                 | 23.03                    | 23.01                  | 24.5                |
| 100             | 16QAM      | 1       | 1         | 22.99                 | 23.09                    | 22.99                  | 24.5                |
| 100             | 64QAM      | 1       | 1         | 22.94                 | 23.07                    | 22.96                  | 24.5                |
| 100             | 256QAM     | 1       | 1         | 21.63                 | 21.74                    | 21.63                  | 22.5                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 23.13                 | 23.08                    | 23.11                  | 24.5                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 23.12                 | 23.16                    | 23.08                  | 24.5                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 23.16                 | 23.18                    | 23.12                  | 24.5                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 23.11                 | 23.14                    | 23.11                  | 24.5                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 23.17                 | 23.08                    | 23.14                  | 24.5                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 23.15                 | 23.13                    | 23.12                  | 24.5                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 23.17                 | 23.08                    | 23.05                  | 24.5                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 23.07                 | 23.15                    | 23.11                  | 24.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 15.68                 | 15.81                    | 15.76                  | 16.8                |
| 100             | PI/2 BPSK  | 1       | 137       | 15.62                 | 15.72                    | 15.52                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 15.64                 | 15.76                    | 15.59                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 15.49                 | 15.69                    | 15.59                  | 16.8                |
| 100             | PI/2 BPSK  | 135     | 69        | 15.61                 | 15.77                    | 15.64                  | 16.8                |
| 100             | PI/2 BPSK  | 135     | 138       | 15.59                 | 15.74                    | 15.58                  | 16.8                |
| 100             | PI/2 BPSK  | 270     | 0         | 15.62                 | 15.75                    | 15.61                  |                     |
| 100             | QPSK       | 1       | 1         | 15.59                 | 15.78                    | 15.59                  | 16.8                |
| 100             | QPSK       | 1       | 137       | 15.61                 | 15.72                    | 15.59                  |                     |
| 100             | QPSK       | 1       | 271       | 15.51                 | 15.69                    | 15.56                  |                     |
| 100             | QPSK       | 135     | 0         | 15.57                 | 15.69                    | 15.49                  | 16.8                |
| 100             | QPSK       | 135     | 69        | 15.61                 | 15.73                    | 15.58                  |                     |
| 100             | QPSK       | 135     | 138       | 15.59                 | 15.71                    | 15.56                  |                     |
| 100             | QPSK       | 270     | 0         | 15.56                 | 15.72                    | 15.61                  | 16.8                |
| 100             | 16QAM      | 1       | 1         | 15.58                 | 15.73                    | 15.61                  | 16.8                |
| 100             | 64QAM      | 1       | 1         | 15.49                 | 15.69                    | 15.57                  | 16.8                |
| 100             | 256QAM     | 1       | 1         | 15.58                 | 15.69                    | 15.58                  | 16.8                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 15.57                 | 15.63                    | 15.57                  | 16.8                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 15.51                 | 15.65                    | 15.62                  | 16.8                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 15.56                 | 15.69                    | 15.58                  | 16.8                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 15.52                 | 15.62                    | 15.66                  | 16.8                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 15.55                 | 15.61                    | 15.62                  | 16.8                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 15.51                 | 15.71                    | 15.61                  | 16.8                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 15.51                 | 15.68                    | 15.61                  | 16.8                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 15.54                 | 15.61                    | 15.56                  | 16.8                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 13.98                 | 14.06                    | 14.02                  | 14.5                |
| 100             | PI/2 BPSK  | 1       | 137       | 13.90                 | 14.02                    | 13.90                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 13.89                 | 14.01                    | 13.89                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 13.88                 | 14.00                    | 13.86                  | 14.5                |
| 100             | PI/2 BPSK  | 135     | 69        | 13.87                 | 14.02                    | 13.90                  | 14.5                |
| 100             | PI/2 BPSK  | 135     | 138       | 13.79                 | 13.93                    | 13.76                  | 14.5                |
| 100             | PI/2 BPSK  | 270     | 0         | 13.81                 | 13.98                    | 13.86                  |                     |
| 100             | QPSK       | 1       | 1         | 13.88                 | 14.05                    | 13.92                  | 14.5                |
| 100             | QPSK       | 1       | 137       | 13.86                 | 14.01                    | 13.88                  |                     |
| 100             | QPSK       | 1       | 271       | 13.81                 | 13.94                    | 13.78                  |                     |
| 100             | QPSK       | 135     | 0         | 13.78                 | 13.91                    | 13.78                  | 14.5                |
| 100             | QPSK       | 135     | 69        | 13.86                 | 13.98                    | 13.85                  |                     |
| 100             | QPSK       | 135     | 138       | 13.77                 | 13.89                    | 13.77                  |                     |
| 100             | QPSK       | 270     | 0         | 13.83                 | 13.99                    | 13.86                  | 14.5                |
| 100             | 16QAM      | 1       | 1         | 13.86                 | 14.00                    | 13.83                  | 14.5                |
| 100             | 64QAM      | 1       | 1         | 13.79                 | 13.96                    | 13.81                  | 14.5                |
| 100             | 256QAM     | 1       | 1         | 13.77                 | 13.89                    | 13.72                  | 14.5                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 13.81                 | 13.96                    | 13.83                  | 14.5                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 13.83                 | 13.90                    | 13.87                  | 14.5                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 13.85                 | 13.89                    | 13.89                  | 14.5                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 13.80                 | 13.95                    | 13.85                  | 14.5                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 13.82                 | 13.93                    | 13.89                  | 14.5                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 13.85                 | 13.91                    | 13.87                  | 14.5                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 13.83                 | 13.91                    | 13.90                  | 14.5                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 13.82                 | 13.92                    | 13.91                  | 14.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 12.64                 | 12.69                    | 12.58                  | 13.8                |
| 100             | PI/2 BPSK  | 1       | 137       | 12.47                 | 12.65                    | 12.47                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 12.45                 | 12.64                    | 12.51                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 12.46                 | 12.60                    | 12.38                  | 13.8                |
| 100             | PI/2 BPSK  | 135     | 69        | 12.52                 | 12.66                    | 12.53                  | 13.8                |
| 100             | PI/2 BPSK  | 135     | 138       | 12.40                 | 12.63                    | 12.40                  | 13.8                |
| 100             | PI/2 BPSK  | 270     | 0         | 12.41                 | 12.59                    | 12.44                  |                     |
| 100             | QPSK       | 1       | 1         | 12.52                 | 12.66                    | 12.51                  | 13.8                |
| 100             | QPSK       | 1       | 137       | 12.34                 | 12.56                    | 12.37                  |                     |
| 100             | QPSK       | 1       | 271       | 12.36                 | 12.60                    | 12.45                  |                     |
| 100             | QPSK       | 135     | 0         | 12.46                 | 12.60                    | 12.38                  | 13.8                |
| 100             | QPSK       | 135     | 69        | 12.47                 | 12.63                    | 12.46                  |                     |
| 100             | QPSK       | 135     | 138       | 12.35                 | 12.59                    | 12.37                  |                     |
| 100             | QPSK       | 270     | 0         | 12.36                 | 12.54                    | 12.41                  | 13.8                |
| 100             | 16QAM      | 1       | 1         | 12.38                 | 12.56                    | 12.38                  | 13.8                |
| 100             | 64QAM      | 1       | 1         | 12.38                 | 12.57                    | 12.34                  | 13.8                |
| 100             | 256QAM     | 1       | 1         | 12.40                 | 12.60                    | 12.46                  | 13.8                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.48                 | 12.47                    | 12.35                  | 13.8                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.50                 | 12.52                    | 12.36                  | 13.8                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.51                 | 12.49                    | 12.41                  | 13.8                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.44                 | 12.52                    | 12.42                  | 13.8                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.47                 | 12.46                    | 12.44                  | 13.8                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.48                 | 12.57                    | 12.42                  | 13.8                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.40                 | 12.52                    | 12.34                  | 13.8                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.40                 | 12.46                    | 12.34                  | 13.8                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 19.67                 | 19.81                    | 19.64                  | 20.5                |
| 100             | PI/2 BPSK  | 1       | 137       | 19.52                 | 19.75                    | 19.57                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 19.49                 | 19.72                    | 19.55                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 19.42                 | 19.65                    | 19.46                  | 20.5                |
| 100             | PI/2 BPSK  | 135     | 69        | 19.49                 | 19.68                    | 19.46                  | 20.5                |
| 100             | PI/2 BPSK  | 135     | 138       | 19.49                 | 19.63                    | 19.44                  | 20.5                |
| 100             | PI/2 BPSK  | 270     | 0         | 19.41                 | 19.62                    | 19.46                  |                     |
| 100             | QPSK       | 1       | 1         | 19.61                 | 19.74                    | 19.61                  | 20.5                |
| 100             | QPSK       | 1       | 137       | 19.47                 | 19.70                    | 19.48                  |                     |
| 100             | QPSK       | 1       | 271       | 19.56                 | 19.72                    | 19.59                  |                     |
| 100             | QPSK       | 135     | 0         | 19.45                 | 19.62                    | 19.40                  | 20.5                |
| 100             | QPSK       | 135     | 69        | 19.43                 | 19.65                    | 19.50                  |                     |
| 100             | QPSK       | 135     | 138       | 19.39                 | 19.60                    | 19.37                  |                     |
| 100             | QPSK       | 270     | 0         | 19.42                 | 19.63                    | 19.48                  | 20.5                |
| 100             | 16QAM      | 1       | 1         | 19.50                 | 19.72                    | 19.50                  | 20.5                |
| 100             | 64QAM      | 1       | 1         | 19.61                 | 19.74                    | 19.61                  | 20.5                |
| 100             | 256QAM     | 1       | 1         | 18.11                 | 18.30                    | 18.15                  | 19.0                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 19.48                 | 19.63                    | 19.48                  | 20.5                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 19.47                 | 19.62                    | 19.50                  | 20.5                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 19.51                 | 19.63                    | 19.54                  | 20.5                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 19.53                 | 19.62                    | 19.51                  | 20.5                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 19.54                 | 19.65                    | 19.46                  | 20.5                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 19.57                 | 19.67                    | 19.45                  | 20.5                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 19.56                 | 19.70                    | 19.46                  | 20.5                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 19.51                 | 19.67                    | 19.48                  | 20.5                |





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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 6.69                  | 6.76                     | 6.62                   | 7.6                 |
| 100             | PI/2 BPSK  | 1       | 137       | 6.61                  | 6.72                     | 6.52                   |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 6.60                  | 6.71                     | 6.49                   |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 6.59                  | 6.70                     | 6.48                   | 7.6                 |
| 100             | PI/2 BPSK  | 135     | 69        | 6.60                  | 6.72                     | 6.57                   | 7.6                 |
| 100             | PI/2 BPSK  | 135     | 138       | 6.53                  | 6.63                     | 6.48                   | 7.6                 |
| 100             | PI/2 BPSK  | 270     | 0         | 6.56                  | 6.68                     | 6.53                   |                     |
| 100             | QPSK       | 1       | 1         | 6.65                  | 6.75                     | 6.54                   | 7.6                 |
| 100             | QPSK       | 1       | 137       | 6.57                  | 6.71                     | 6.52                   |                     |
| 100             | QPSK       | 1       | 271       | 6.55                  | 6.64                     | 6.41                   |                     |
| 100             | QPSK       | 135     | 0         | 6.46                  | 6.61                     | 6.45                   | 7.6                 |
| 100             | QPSK       | 135     | 69        | 6.55                  | 6.68                     | 6.52                   |                     |
| 100             | QPSK       | 135     | 138       | 6.46                  | 6.59                     | 6.40                   |                     |
| 100             | QPSK       | 270     | 0         | 6.57                  | 6.69                     | 6.54                   | 7.6                 |
| 100             | 16QAM      | 1       | 1         | 6.59                  | 6.70                     | 6.47                   | 7.6                 |
| 100             | 64QAM      | 1       | 1         | 6.49                  | 6.66                     | 6.52                   | 7.6                 |
| 100             | 256QAM     | 1       | 1         | 6.46                  | 6.59                     | 6.39                   | 7.6                 |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 6.52                  | 6.64                     | 6.38                   | 7.6                 |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 6.48                  | 6.59                     | 6.44                   | 7.6                 |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 6.45                  | 6.52                     | 6.41                   | 7.6                 |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 6.54                  | 6.61                     | 6.46                   | 7.6                 |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 6.48                  | 6.57                     | 6.50                   | 7.6                 |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 6.48                  | 6.64                     | 6.41                   | 7.6                 |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 6.57                  | 6.61                     | 6.50                   | 7.6                 |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 6.52                  | 6.62                     | 6.38                   | 7.6                 |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 14.39                 | 14.46                    | 14.32                  | 15.3                |
| 100             | PI/2 BPSK  | 1       | 137       | 14.26                 | 14.42                    | 14.20                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 14.25                 | 14.41                    | 14.21                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 14.33                 | 14.40                    | 14.19                  | 15.3                |
| 100             | PI/2 BPSK  | 135     | 69        | 14.25                 | 14.42                    | 14.26                  | 15.3                |
| 100             | PI/2 BPSK  | 135     | 138       | 14.19                 | 14.33                    | 14.16                  | 15.3                |
| 100             | PI/2 BPSK  | 270     | 0         | 14.28                 | 14.38                    | 14.21                  |                     |
| 100             | QPSK       | 1       | 1         | 14.31                 | 14.45                    | 14.31                  | 15.3                |
| 100             | QPSK       | 1       | 137       | 14.24                 | 14.41                    | 14.24                  |                     |
| 100             | QPSK       | 1       | 271       | 14.23                 | 14.34                    | 14.19                  |                     |
| 100             | QPSK       | 135     | 0         | 14.20                 | 14.31                    | 14.13                  | 15.3                |
| 100             | QPSK       | 135     | 69        | 14.24                 | 14.38                    | 14.14                  |                     |
| 100             | QPSK       | 135     | 138       | 14.13                 | 14.29                    | 14.08                  |                     |
| 100             | QPSK       | 270     | 0         | 14.25                 | 14.39                    | 14.23                  | 15.3                |
| 100             | 16QAM      | 1       | 1         | 14.29                 | 14.40                    | 14.23                  | 15.3                |
| 100             | 64QAM      | 1       | 1         | 14.26                 | 14.36                    | 14.14                  | 15.3                |
| 100             | 256QAM     | 1       | 1         | 14.15                 | 14.29                    | 14.11                  | 15.3                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 14.33                 | 14.36                    | 14.23                  | 15.3                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 14.25                 | 14.35                    | 14.12                  | 15.3                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 14.25                 | 14.35                    | 14.20                  | 15.3                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 14.24                 | 14.37                    | 14.12                  | 15.3                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 14.19                 | 14.39                    | 14.23                  | 15.3                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 14.16                 | 14.33                    | 14.12                  | 15.3                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 14.24                 | 14.32                    | 14.20                  | 15.3                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 14.19                 | 14.39                    | 14.23                  | 15.3                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 26.20                 | 26.38                    | 26.23                  | 27.0                |
| 100             | PI/2 BPSK  | 1       | 137       | 26.16                 | 26.20                    | 26.15                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 26.18                 | 26.22                    | 26.17                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 25.60                 | 25.68                    | 25.61                  | 26.5                |
| 100             | PI/2 BPSK  | 135     | 69        | 26.14                 | 26.22                    | 26.02                  | 27.0                |
| 100             | PI/2 BPSK  | 135     | 138       | 25.59                 | 25.70                    | 25.69                  | 26.5                |
| 100             | PI/2 BPSK  | 270     | 0         | 25.64                 | 25.75                    | 25.63                  |                     |
| 100             | QPSK       | 1       | 1         | 26.14                 | 26.26                    | 26.12                  | 27.0                |
| 100             | QPSK       | 1       | 137       | 26.01                 | 26.18                    | 26.01                  |                     |
| 100             | QPSK       | 1       | 271       | 26.08                 | 26.12                    | 26.08                  |                     |
| 100             | QPSK       | 135     | 0         | 25.86                 | 25.97                    | 25.96                  | 27.0                |
| 100             | QPSK       | 135     | 69        | 25.91                 | 26.06                    | 25.91                  |                     |
| 100             | QPSK       | 135     | 138       | 25.79                 | 25.84                    | 25.81                  |                     |
| 100             | QPSK       | 270     | 0         | 25.07                 | 25.22                    | 25.05                  | 26.0                |
| 100             | 16QAM      | 1       | 1         | 25.12                 | 25.29                    | 25.14                  | 26.0                |
| 100             | 64QAM      | 1       | 1         | 23.61                 | 23.74                    | 23.61                  | 24.5                |
| 100             | 256QAM     | 1       | 1         | 21.58                 | 21.72                    | 21.54                  | 22.5                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 26.11                 | 26.37                    | 26.13                  | 27.0                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 26.10                 | 26.37                    | 26.15                  | 27.0                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 26.19                 | 26.29                    | 26.12                  | 27.0                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 26.13                 | 26.35                    | 26.12                  | 27.0                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 26.09                 | 26.30                    | 26.18                  | 27.0                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 26.13                 | 26.31                    | 26.18                  | 27.0                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 26.10                 | 26.33                    | 26.11                  | 27.0                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 26.14                 | 26.31                    | 26.13                  | 27.0                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 15.68                 | 15.81                    | 15.76                  | 16.8                |
| 100             | PI/2 BPSK  | 1       | 137       | 15.57                 | 15.72                    | 15.59                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 15.59                 | 15.76                    | 15.65                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 15.53                 | 15.69                    | 15.52                  | 16.8                |
| 100             | PI/2 BPSK  | 135     | 69        | 15.59                 | 15.77                    | 15.58                  | 16.8                |
| 100             | PI/2 BPSK  | 135     | 138       | 15.62                 | 15.74                    | 15.62                  | 16.8                |
| 100             | PI/2 BPSK  | 270     | 0         | 15.59                 | 15.75                    | 15.65                  |                     |
| 100             | QPSK       | 1       | 1         | 15.59                 | 15.78                    | 15.63                  | 16.8                |
| 100             | QPSK       | 1       | 137       | 15.60                 | 15.72                    | 15.59                  |                     |
| 100             | QPSK       | 1       | 271       | 15.58                 | 15.69                    | 15.52                  |                     |
| 100             | QPSK       | 135     | 0         | 15.59                 | 15.69                    | 15.55                  | 16.8                |
| 100             | QPSK       | 135     | 69        | 15.53                 | 15.73                    | 15.63                  |                     |
| 100             | QPSK       | 135     | 138       | 15.58                 | 15.71                    | 15.61                  |                     |
| 100             | QPSK       | 270     | 0         | 15.52                 | 15.72                    | 15.58                  | 16.8                |
| 100             | 16QAM      | 1       | 1         | 15.53                 | 15.73                    | 15.53                  | 16.8                |
| 100             | 64QAM      | 1       | 1         | 15.51                 | 15.69                    | 15.58                  | 16.8                |
| 100             | 256QAM     | 1       | 1         | 15.59                 | 15.69                    | 15.55                  | 16.8                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 15.49                 | 15.66                    | 15.66                  | 16.8                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 15.56                 | 15.70                    | 15.66                  | 16.8                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 15.52                 | 15.70                    | 15.59                  | 16.8                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 15.49                 | 15.64                    | 15.66                  | 16.8                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 15.55                 | 15.61                    | 15.61                  | 16.8                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 15.55                 | 15.61                    | 15.66                  | 16.8                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 15.56                 | 15.65                    | 15.65                  | 16.8                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 15.58                 | 15.63                    | 15.66                  | 16.8                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 13.98                 | 14.06                    | 14.02                  | 14.5                |
| 100             | PI/2 BPSK  | 1       | 137       | 13.90                 | 14.02                    | 13.90                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 13.89                 | 14.01                    | 13.89                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 13.88                 | 14.00                    | 13.86                  | 14.5                |
| 100             | PI/2 BPSK  | 135     | 69        | 13.87                 | 14.02                    | 13.90                  | 14.5                |
| 100             | PI/2 BPSK  | 135     | 138       | 13.79                 | 13.93                    | 13.76                  | 14.5                |
| 100             | PI/2 BPSK  | 270     | 0         | 13.81                 | 13.98                    | 13.86                  |                     |
| 100             | QPSK       | 1       | 1         | 13.88                 | 14.05                    | 13.92                  | 14.5                |
| 100             | QPSK       | 1       | 137       | 13.86                 | 14.01                    | 13.88                  |                     |
| 100             | QPSK       | 1       | 271       | 13.81                 | 13.94                    | 13.78                  |                     |
| 100             | QPSK       | 135     | 0         | 13.78                 | 13.91                    | 13.78                  | 14.5                |
| 100             | QPSK       | 135     | 69        | 13.86                 | 13.98                    | 13.85                  |                     |
| 100             | QPSK       | 135     | 138       | 13.77                 | 13.89                    | 13.77                  |                     |
| 100             | QPSK       | 270     | 0         | 13.83                 | 13.99                    | 13.86                  | 14.5                |
| 100             | 16QAM      | 1       | 1         | 13.86                 | 14.00                    | 13.83                  | 14.5                |
| 100             | 64QAM      | 1       | 1         | 13.79                 | 13.96                    | 13.81                  | 14.5                |
| 100             | 256QAM     | 1       | 1         | 13.77                 | 13.89                    | 13.72                  | 14.5                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 13.81                 | 13.96                    | 13.83                  | 14.5                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 13.83                 | 13.90                    | 13.87                  | 14.5                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 13.85                 | 13.89                    | 13.89                  | 14.5                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 13.80                 | 13.95                    | 13.85                  | 14.5                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 13.82                 | 13.93                    | 13.89                  | 14.5                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 13.85                 | 13.91                    | 13.87                  | 14.5                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 13.83                 | 13.91                    | 13.90                  | 14.5                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 13.82                 | 13.92                    | 13.91                  | 14.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 12.64                 | 12.69                    | 12.58                  | 13.8                |
| 100             | PI/2 BPSK  | 1       | 137       | 12.47                 | 12.65                    | 12.47                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 12.45                 | 12.64                    | 12.51                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 12.46                 | 12.60                    | 12.38                  | 13.8                |
| 100             | PI/2 BPSK  | 135     | 69        | 12.52                 | 12.66                    | 12.53                  | 13.8                |
| 100             | PI/2 BPSK  | 135     | 138       | 12.40                 | 12.63                    | 12.40                  | 13.8                |
| 100             | PI/2 BPSK  | 270     | 0         | 12.41                 | 12.59                    | 12.44                  |                     |
| 100             | QPSK       | 1       | 1         | 12.52                 | 12.66                    | 12.51                  | 13.8                |
| 100             | QPSK       | 1       | 137       | 12.34                 | 12.56                    | 12.37                  |                     |
| 100             | QPSK       | 1       | 271       | 12.36                 | 12.60                    | 12.45                  |                     |
| 100             | QPSK       | 135     | 0         | 12.46                 | 12.60                    | 12.38                  | 13.8                |
| 100             | QPSK       | 135     | 69        | 12.47                 | 12.63                    | 12.46                  |                     |
| 100             | QPSK       | 135     | 138       | 12.35                 | 12.59                    | 12.37                  |                     |
| 100             | QPSK       | 270     | 0         | 12.36                 | 12.54                    | 12.41                  | 13.8                |
| 100             | 16QAM      | 1       | 1         | 12.38                 | 12.56                    | 12.38                  | 13.8                |
| 100             | 64QAM      | 1       | 1         | 12.38                 | 12.57                    | 12.34                  | 13.8                |
| 100             | 256QAM     | 1       | 1         | 12.40                 | 12.60                    | 12.46                  | 13.8                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.48                 | 12.47                    | 12.35                  | 13.8                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.50                 | 12.52                    | 12.36                  | 13.8                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.51                 | 12.49                    | 12.41                  | 13.8                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.44                 | 12.52                    | 12.42                  | 13.8                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.47                 | 12.46                    | 12.44                  | 13.8                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.48                 | 12.57                    | 12.42                  | 13.8                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.40                 | 12.52                    | 12.34                  | 13.8                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.40                 | 12.46                    | 12.34                  | 13.8                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 22.74                 | 22.87                    | 22.74                  | 23.5                |
| 100             | PI/2 BPSK  | 1       | 137       | 22.57                 | 22.63                    | 22.57                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 22.51                 | 22.55                    | 22.50                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 22.21                 | 22.25                    | 22.20                  | 23.0                |
| 100             | PI/2 BPSK  | 135     | 69        | 22.67                 | 22.81                    | 22.69                  | 23.5                |
| 100             | PI/2 BPSK  | 135     | 138       | 22.28                 | 22.26                    | 22.19                  | 23.0                |
| 100             | PI/2 BPSK  | 270     | 0         | 22.19                 | 22.23                    | 22.20                  |                     |
| 100             | QPSK       | 1       | 1         | 22.69                 | 22.83                    | 22.67                  | 23.0                |
| 100             | QPSK       | 1       | 137       | 22.56                 | 22.75                    | 22.57                  |                     |
| 100             | QPSK       | 1       | 271       | 22.53                 | 22.72                    | 22.53                  |                     |
| 100             | QPSK       | 135     | 0         | 22.00                 | 22.21                    | 21.98                  | 23.0                |
| 100             | QPSK       | 135     | 69        | 22.45                 | 22.62                    | 22.41                  |                     |
| 100             | QPSK       | 135     | 138       | 21.54                 | 21.74                    | 21.55                  |                     |
| 100             | QPSK       | 270     | 0         | 21.64                 | 21.77                    | 21.62                  | 22.5                |
| 100             | 16QAM      | 1       | 1         | 21.67                 | 21.85                    | 21.63                  | 22.5                |
| 100             | 64QAM      | 1       | 1         | 20.10                 | 20.33                    | 20.10                  | 21.0                |
| 100             | 256QAM     | 1       | 1         | 18.15                 | 18.30                    | 18.17                  | 19.0                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 22.56                 | 22.70                    | 22.60                  | 23.5                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 22.56                 | 22.74                    | 22.64                  | 23.5                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 22.62                 | 22.68                    | 22.59                  | 23.5                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 22.58                 | 22.73                    | 22.63                  | 23.5                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 22.57                 | 22.70                    | 22.60                  | 23.5                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 22.61                 | 22.75                    | 22.62                  | 23.5                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 22.59                 | 22.72                    | 22.61                  | 23.5                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 22.61                 | 22.67                    | 22.59                  | 23.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 | 7.6                 |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 6.69                  | 6.76                     | 6.62                   |                     |
| 100             | PI/2 BPSK  | 1       | 137       | 6.61                  | 6.72                     | 6.52                   | 7.6                 |
| 100             | PI/2 BPSK  | 1       | 271       | 6.60                  | 6.71                     | 6.49                   |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 6.59                  | 6.70                     | 6.48                   | 7.6                 |
| 100             | PI/2 BPSK  | 135     | 69        | 6.60                  | 6.72                     | 6.57                   | 7.6                 |
| 100             | PI/2 BPSK  | 135     | 138       | 6.53                  | 6.63                     | 6.48                   | 7.6                 |
| 100             | PI/2 BPSK  | 270     | 0         | 6.56                  | 6.68                     | 6.53                   |                     |
| 100             | QPSK       | 1       | 1         | 6.65                  | 6.75                     | 6.54                   | 7.6                 |
| 100             | QPSK       | 1       | 137       | 6.57                  | 6.71                     | 6.52                   |                     |
| 100             | QPSK       | 1       | 271       | 6.55                  | 6.64                     | 6.41                   |                     |
| 100             | QPSK       | 135     | 0         | 6.46                  | 6.61                     | 6.45                   | 7.6                 |
| 100             | QPSK       | 135     | 69        | 6.55                  | 6.68                     | 6.52                   |                     |
| 100             | QPSK       | 135     | 138       | 6.46                  | 6.59                     | 6.40                   |                     |
| 100             | QPSK       | 270     | 0         | 6.57                  | 6.69                     | 6.54                   | 7.6                 |
| 100             | 16QAM      | 1       | 1         | 6.59                  | 6.70                     | 6.47                   | 7.6                 |
| 100             | 64QAM      | 1       | 1         | 6.49                  | 6.66                     | 6.52                   | 7.6                 |
| 100             | 256QAM     | 1       | 1         | 6.46                  | 6.59                     | 6.39                   | 7.6                 |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | 7.6                 |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 6.52                  | 6.64                     | 6.38                   | 7.6                 |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | 7.6                 |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 6.48                  | 6.59                     | 6.44                   | 7.6                 |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | 7.6                 |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 6.45                  | 6.52                     | 6.41                   | 7.6                 |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | 7.6                 |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 6.54                  | 6.61                     | 6.46                   | 7.6                 |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | 7.6                 |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 6.48                  | 6.57                     | 6.50                   | 7.6                 |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | 7.6                 |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 6.48                  | 6.64                     | 6.41                   | 7.6                 |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | 7.6                 |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 6.57                  | 6.61                     | 6.50                   | 7.6                 |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | 7.6                 |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 6.52                  | 6.62                     | 6.38                   | 7.6                 |





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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 14.39                 | 14.46                    | 14.32                  | 15.3                |
| 100             | PI/2 BPSK  | 1       | 137       | 14.26                 | 14.42                    | 14.20                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 14.25                 | 14.41                    | 14.21                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 14.33                 | 14.40                    | 14.19                  | 15.3                |
| 100             | PI/2 BPSK  | 135     | 69        | 14.25                 | 14.42                    | 14.26                  | 15.3                |
| 100             | PI/2 BPSK  | 135     | 138       | 14.19                 | 14.33                    | 14.16                  | 15.3                |
| 100             | PI/2 BPSK  | 270     | 0         | 14.28                 | 14.38                    | 14.21                  |                     |
| 100             | QPSK       | 1       | 1         | 14.31                 | 14.45                    | 14.31                  | 15.3                |
| 100             | QPSK       | 1       | 137       | 14.24                 | 14.41                    | 14.24                  |                     |
| 100             | QPSK       | 1       | 271       | 14.23                 | 14.34                    | 14.19                  |                     |
| 100             | QPSK       | 135     | 0         | 14.20                 | 14.31                    | 14.13                  | 15.3                |
| 100             | QPSK       | 135     | 69        | 14.24                 | 14.38                    | 14.14                  |                     |
| 100             | QPSK       | 135     | 138       | 14.13                 | 14.29                    | 14.08                  |                     |
| 100             | QPSK       | 270     | 0         | 14.25                 | 14.39                    | 14.23                  | 15.3                |
| 100             | 16QAM      | 1       | 1         | 14.29                 | 14.40                    | 14.23                  | 15.3                |
| 100             | 64QAM      | 1       | 1         | 14.26                 | 14.36                    | 14.14                  | 15.3                |
| 100             | 256QAM     | 1       | 1         | 14.15                 | 14.29                    | 14.11                  | 15.3                |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 14.33                 | 14.36                    | 14.23                  | 15.3                |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 14.25                 | 14.35                    | 14.12                  | 15.3                |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 14.25                 | 14.35                    | 14.20                  | 15.3                |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 14.24                 | 14.37                    | 14.12                  | 15.3                |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 14.19                 | 14.39                    | 14.23                  | 15.3                |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 14.16                 | 14.33                    | 14.12                  | 15.3                |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 14.24                 | 14.32                    | 14.20                  | 15.3                |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 14.19                 | 14.39                    | 14.23                  | 15.3                |



**<FR1 n48 Ant 3 Index 1>**

| BW [MHz]            | Modulation | RB Size         | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) |        |         |
|---------------------|------------|-----------------|-----------|-----------------------|--------------------------|------------------------|---------------------|--------|---------|
| Sub carrier spacing |            | Channel         |           | 637000                | 641667                   | 646332                 | 637000              | 641667 | 646332  |
| 30k                 | Hz         | Frequency (MHz) |           | 3555                  | 3625                     | 3694.98                | 3555                | 3625   | 3694.98 |
| 10                  | PI/2 BPSK  | 1               | 1         | 21.00                 | 21.20                    | 20.66                  | 22.00               | 22.00  | 22.00   |
| 10                  | PI/2 BPSK  | 1               | 22        | 21.02                 | 21.21                    | 20.67                  | 22.00               | 22.00  | 22.00   |
| 10                  | PI/2 BPSK  | 12              | 6         | 21.06                 | 21.24                    | 20.70                  | 22.00               | 22.00  | 22.00   |
| 10                  | PI/2 BPSK  | 1               | 0         | 20.54                 | 20.75                    | 20.12                  | 22.00               | 22.00  | 22.00   |
| 10                  | PI/2 BPSK  | 1               | 23        | 20.41                 | 20.67                    | 20.15                  | 22.00               | 22.00  | 22.00   |
| 10                  | PI/2 BPSK  | 24              | 0         | 20.57                 | 20.73                    | 20.15                  | 22.00               | 22.00  | 22.00   |
| 10                  | QPSK       | 1               | 1         | 20.95                 | 21.18                    | 20.59                  | 22.00               | 22.00  | 22.00   |
| 10                  | QPSK       | 1               | 22        | 21.06                 | 21.13                    | 20.52                  | 22.00               | 22.00  | 22.00   |
| 10                  | QPSK       | 12              | 6         | 21.02                 | 21.22                    | 20.69                  | 22.00               | 22.00  | 22.00   |
| 10                  | QPSK       | 1               | 0         | 19.97                 | 20.19                    | 19.57                  | 21.00               | 22.00  | 21.00   |
| 10                  | QPSK       | 1               | 23        | 19.95                 | 20.13                    | 19.55                  | 21.00               | 22.00  | 21.00   |
| 10                  | QPSK       | 24              | 0         | 20.04                 | 20.23                    | 19.71                  | 22.00               | 22.00  | 21.00   |
| 10                  | 16QAM      | 1               | 1         | 20.16                 | 20.35                    | 19.80                  | 22.00               | 22.00  | 21.00   |
| 10                  | 64QAM      | 1               | 1         | 18.62                 | 18.85                    | 18.26                  | 20.00               | 20.00  | 20.00   |
| 10                  | 256QAM     | 1               | 1         | 16.22                 | 16.41                    | 15.86                  | 18.00               | 18.00  | 17.00   |
| Sub carrier spacing |            | Channel         |           | 637334                | 641667                   | 646000                 | 637334              | 641667 | 646000  |
| 30k                 | Hz         | Frequency (MHz) |           | 3560.01               | 3625                     | 3690                   | 3560.01             | 3625   | 3690    |
| 20                  | PI/2 BPSK  | 1               | 1         | 17.08                 | 17.15                    | 16.68                  | 19.00               | 19.00  | 18.00   |
| 20                  | PI/2 BPSK  | 1               | 49        | 17.02                 | 16.98                    | 16.54                  | 19.00               | 18.00  | 18.00   |
| 20                  | PI/2 BPSK  | 25              | 12        | 17.15                 | 17.12                    | 16.61                  | 19.00               | 19.00  | 18.00   |
| 20                  | PI/2 BPSK  | 1               | 0         | 20.52                 | 20.43                    | 20.27                  | 22.00               | 22.00  | 22.00   |
| 20                  | PI/2 BPSK  | 1               | 50        | 20.58                 | 20.50                    | 20.04                  | 22.00               | 22.00  | 22.00   |
| 20                  | PI/2 BPSK  | 50              | 0         | 17.05                 | 17.08                    | 16.58                  | 19.00               | 19.00  | 18.00   |
| 20                  | QPSK       | 1               | 1         | 17.10                 | 16.92                    | 16.68                  | 19.00               | 18.00  | 18.00   |
| 20                  | QPSK       | 1               | 49        | 17.02                 | 16.97                    | 16.55                  | 19.00               | 18.00  | 18.00   |
| 20                  | QPSK       | 25              | 12        | 17.12                 | 17.01                    | 16.56                  | 19.00               | 19.00  | 18.00   |
| 20                  | QPSK       | 1               | 0         | 20.13                 | 19.95                    | 19.71                  | 22.00               | 21.00  | 21.00   |
| 20                  | QPSK       | 1               | 50        | 20.03                 | 19.98                    | 19.58                  | 22.00               | 21.00  | 21.00   |
| 20                  | QPSK       | 50              | 0         | 17.08                 | 17.10                    | 16.60                  | 19.00               | 19.00  | 18.00   |
| 20                  | 16QAM      | 1               | 1         | 16.27                 | 17.12                    | 16.72                  | 18.00               | 19.00  | 18.00   |
| 20                  | 64QAM      | 1               | 1         | 16.24                 | 17.05                    | 16.83                  | 18.00               | 19.00  | 18.00   |
| 20                  | 256QAM     | 1               | 1         | 16.29                 | 16.14                    | 15.91                  | 18.00               | 18.00  | 17.00   |
| Sub carrier spacing |            | Channel         |           | 638000                | 641667                   | 645333                 | 638000              | 641667 | 645333  |
| 30k                 | Hz         | Frequency (MHz) |           | 3570                  | 3625                     | 3680                   | 3570                | 3625   | 3680    |
| 40                  | PI/2 BPSK  | 1               | 1         | 10.85                 | 17.26                    | 10.41                  | 12.00               | 19.00  | 12.00   |
| 40                  | PI/2 BPSK  | 1               | 104       | 10.84                 | 17.12                    | 10.23                  | 12.00               | 19.00  | 12.00   |
| 40                  | PI/2 BPSK  | 50              | 25        | 10.72                 | 17.27                    | 10.32                  | 12.00               | 19.00  | 12.00   |
| 40                  | PI/2 BPSK  | 1               | 0         | 20.78                 | 20.76                    | 20.56                  | 22.00               | 22.00  | 22.00   |
| 40                  | PI/2 BPSK  | 1               | 105       | 20.75                 | 20.58                    | 20.36                  | 22.00               | 22.00  | 22.00   |
| 40                  | PI/2 BPSK  | 100             | 0         | 10.72                 | 17.24                    | 10.31                  | 12.00               | 19.00  | 12.00   |
| 40                  | QPSK       | 1               | 1         | 10.78                 | 17.19                    | 10.42                  | 12.00               | 19.00  | 12.00   |
| 40                  | QPSK       | 1               | 104       | 10.85                 | 17.04                    | 10.22                  | 12.00               | 19.00  | 12.00   |
| 40                  | QPSK       | 50              | 25        | 10.73                 | 17.21                    | 10.33                  | 12.00               | 19.00  | 12.00   |
| 40                  | QPSK       | 1               | 0         | 20.34                 | 20.26                    | 20.01                  | 22.00               | 22.00  | 22.00   |
| 40                  | QPSK       | 1               | 105       | 20.33                 | 20.15                    | 19.84                  | 22.00               | 22.00  | 21.00   |
| 40                  | QPSK       | 100             | 0         | 10.74                 | 17.28                    | 10.32                  | 12.00               | 19.00  | 12.00   |
| 40                  | 16QAM      | 1               | 1         | 10.33                 | 17.37                    | 10.07                  | 12.00               | 19.00  | 12.00   |
| 40                  | 64QAM      | 1               | 1         | 10.33                 | 17.28                    | 9.95                   | 12.00               | 19.00  | 11.00   |
| 40                  | 256QAM     | 1               | 1         | 10.00                 | 16.43                    | 9.59                   | 12.00               | 18.00  | 11.00   |



**<FR1 n48 Ant 3 Index 2&3>**

| BW [MHz]            | Modulation | RB Size         | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) |        |         |
|---------------------|------------|-----------------|-----------|-----------------------|--------------------------|------------------------|---------------------|--------|---------|
| Sub carrier spacing |            | Channel         |           | 637000                | 641667                   | 646332                 | 637000              | 641667 | 646332  |
| 30k                 | Hz         | Frequency (MHz) |           | 3555                  | 3625                     | 3694.98                | 3555                | 3625   | 3694.98 |
| 10                  | PI/2 BPSK  | 1               | 1         | 9.60                  | 9.66                     | 9.59                   | 10.30               | 10.30  | 10.30   |
| 10                  | PI/2 BPSK  | 1               | 22        | 9.51                  | 9.70                     | 9.40                   | 10.30               | 10.30  | 10.30   |
| 10                  | PI/2 BPSK  | 12              | 6         | 9.60                  | 9.64                     | 9.42                   | 10.30               | 10.30  | 10.30   |
| 10                  | PI/2 BPSK  | 1               | 0         | 9.63                  | 9.47                     | 9.50                   | 10.30               | 10.30  | 10.30   |
| 10                  | PI/2 BPSK  | 1               | 23        | 9.45                  | 9.66                     | 9.54                   | 10.30               | 10.30  | 10.30   |
| 10                  | PI/2 BPSK  | 24              | 0         | 9.35                  | 9.72                     | 9.46                   | 10.30               | 10.30  | 10.30   |
| 10                  | QPSK       | 1               | 1         | 9.55                  | 9.48                     | 9.35                   | 10.30               | 10.30  | 10.30   |
| 10                  | QPSK       | 1               | 22        | 9.56                  | 9.62                     | 9.44                   | 10.30               | 10.30  | 10.30   |
| 10                  | QPSK       | 12              | 6         | 9.41                  | 9.62                     | 9.43                   | 10.30               | 10.30  | 10.30   |
| 10                  | QPSK       | 1               | 0         | 9.42                  | 9.47                     | 9.44                   | 10.30               | 10.30  | 10.30   |
| 10                  | QPSK       | 1               | 23        | 9.40                  | 9.55                     | 9.32                   | 10.30               | 10.30  | 10.30   |
| 10                  | QPSK       | 24              | 0         | 9.31                  | 9.50                     | 9.46                   | 10.30               | 10.30  | 10.30   |
| 10                  | 16QAM      | 1               | 1         | 9.39                  | 9.62                     | 9.43                   | 10.30               | 10.30  | 10.30   |
| 10                  | 64QAM      | 1               | 1         | 9.38                  | 9.55                     | 9.43                   | 10.30               | 10.30  | 10.30   |
| 10                  | 256QAM     | 1               | 1         | 9.38                  | 9.44                     | 9.38                   | 10.30               | 10.30  | 10.30   |
| Sub carrier spacing |            | Channel         |           | 637334                | 641667                   | 646000                 | 637334              | 641667 | 646000  |
| 30k                 | Hz         | Frequency (MHz) |           | 3560.01               | 3625                     | 3690                   | 3560.01             | 3625   | 3690    |
| 20                  | PI/2 BPSK  | 1               | 1         | 9.51                  | 9.74                     | 9.54                   | 10.30               | 10.30  | 10.30   |
| 20                  | PI/2 BPSK  | 1               | 49        | 9.52                  | 9.67                     | 9.51                   | 10.30               | 10.30  | 10.30   |
| 20                  | PI/2 BPSK  | 25              | 12        | 9.47                  | 9.68                     | 9.55                   | 10.30               | 10.30  | 10.30   |
| 20                  | PI/2 BPSK  | 1               | 0         | 9.60                  | 9.53                     | 9.37                   | 10.30               | 10.30  | 10.30   |
| 20                  | PI/2 BPSK  | 1               | 50        | 9.52                  | 9.69                     | 9.55                   | 10.30               | 10.30  | 10.30   |
| 20                  | PI/2 BPSK  | 50              | 0         | 9.33                  | 9.65                     | 9.42                   | 10.30               | 10.30  | 10.30   |
| 20                  | QPSK       | 1               | 1         | 9.51                  | 9.53                     | 9.44                   | 10.30               | 10.30  | 10.30   |
| 20                  | QPSK       | 1               | 49        | 9.50                  | 9.54                     | 9.48                   | 10.30               | 10.30  | 10.30   |
| 20                  | QPSK       | 25              | 12        | 9.47                  | 9.57                     | 9.39                   | 10.30               | 10.30  | 10.30   |
| 20                  | QPSK       | 1               | 0         | 9.30                  | 9.61                     | 9.37                   | 10.30               | 10.30  | 10.30   |
| 20                  | QPSK       | 1               | 50        | 9.39                  | 9.62                     | 9.37                   | 10.30               | 10.30  | 10.30   |
| 20                  | QPSK       | 50              | 0         | 9.44                  | 9.52                     | 9.41                   | 10.30               | 10.30  | 10.30   |
| 20                  | 16QAM      | 1               | 1         | 9.45                  | 9.55                     | 9.43                   | 10.30               | 10.30  | 10.30   |
| 20                  | 64QAM      | 1               | 1         | 9.51                  | 9.54                     | 9.43                   | 10.30               | 10.30  | 10.30   |
| 20                  | 256QAM     | 1               | 1         | 9.24                  | 9.64                     | 9.50                   | 10.30               | 10.30  | 10.30   |
| Sub carrier spacing |            | Channel         |           | 638000                | 641667                   | 645333                 | 638000              | 641667 | 645333  |
| 30k                 | Hz         | Frequency (MHz) |           | 3570                  | 3625                     | 3680                   | 3570                | 3625   | 3680    |
| 40                  | PI/2 BPSK  | 1               | 1         | 9.70                  | 9.77                     | 9.72                   | 10.30               | 10.30  | 10.30   |
| 40                  | PI/2 BPSK  | 1               | 104       | 9.62                  | 9.72                     | 9.57                   | 10.30               | 10.30  | 10.30   |
| 40                  | PI/2 BPSK  | 50              | 25        | 9.61                  | 9.73                     | 9.60                   | 10.30               | 10.30  | 10.30   |
| 40                  | PI/2 BPSK  | 1               | 0         | 9.68                  | 9.62                     | 9.54                   | 10.30               | 10.30  | 10.30   |
| 40                  | PI/2 BPSK  | 1               | 105       | 9.62                  | 9.76                     | 9.68                   | 10.30               | 10.30  | 10.30   |
| 40                  | PI/2 BPSK  | 100             | 0         | 9.52                  | 9.72                     | 9.62                   | 10.30               | 10.30  | 10.30   |
| 40                  | QPSK       | 1               | 1         | 9.56                  | 9.68                     | 9.51                   | 10.30               | 10.30  | 10.30   |
| 40                  | QPSK       | 1               | 104       | 9.59                  | 9.70                     | 9.59                   | 10.30               | 10.30  | 10.30   |
| 40                  | QPSK       | 50              | 25        | 9.52                  | 9.69                     | 9.56                   | 10.30               | 10.30  | 10.30   |
| 40                  | QPSK       | 1               | 0         | 9.46                  | 9.65                     | 9.53                   | 10.30               | 10.30  | 10.30   |
| 40                  | QPSK       | 1               | 105       | 9.46                  | 9.62                     | 9.44                   | 10.30               | 10.30  | 10.30   |
| 40                  | QPSK       | 100             | 0         | 9.50                  | 9.70                     | 9.58                   | 10.30               | 10.30  | 10.30   |
| 40                  | 16QAM      | 1               | 1         | 9.55                  | 9.68                     | 9.55                   | 10.30               | 10.30  | 10.30   |
| 40                  | 64QAM      | 1               | 1         | 9.51                  | 9.67                     | 9.53                   | 10.30               | 10.30  | 10.30   |
| 40                  | 256QAM     | 1               | 1         | 9.44                  | 9.64                     | 9.53                   | 10.30               | 10.30  | 10.30   |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 20.27                 | 20.35                    | 20.01                  | 21.7                |
| 100             | PI/2 BPSK  | 1       | 137       | 20.19                 | 20.21                    | 20.18                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 20.09                 | 20.12                    | 20.09                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 20.24                 | 20.26                    | 20.24                  | 21.7                |
| 100             | PI/2 BPSK  | 135     | 69        | 20.24                 | 20.27                    | 20.24                  | 21.7                |
| 100             | PI/2 BPSK  | 135     | 138       | 20.06                 | 20.09                    | 20.07                  | 21.7                |
| 100             | PI/2 BPSK  | 270     | 0         | 20.22                 | 20.24                    | 20.22                  |                     |
| 100             | QPSK       | 1       | 1         | 20.28                 | 20.30                    | 20.28                  | 21.7                |
| 100             | QPSK       | 1       | 137       | 20.17                 | 20.19                    | 20.17                  |                     |
| 100             | QPSK       | 1       | 271       | 20.19                 | 20.21                    | 20.18                  |                     |
| 100             | QPSK       | 135     | 0         | 20.27                 | 20.30                    | 20.27                  | 21.7                |
| 100             | QPSK       | 135     | 69        | 20.14                 | 20.17                    | 20.15                  |                     |
| 100             | QPSK       | 135     | 138       | 20.10                 | 20.13                    | 20.10                  |                     |
| 100             | QPSK       | 270     | 0         | 20.16                 | 20.19                    | 20.17                  | 21.7                |
| 100             | 16QAM      | 1       | 1         | 20.32                 | 20.34                    | 20.31                  | 21.7                |
| 100             | 64QAM      | 1       | 1         | 20.30                 | 20.33                    | 20.30                  | 21.7                |
| 100             | 256QAM     | 1       | 1         | 20.25                 | 20.28                    | 20.25                  | 21.7                |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 20.25                 | 20.34                    | 19.99                  | 21.7                |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 20.25                 | 20.33                    | 19.99                  | 21.7                |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 20.25                 | 20.34                    | 20.00                  | 21.7                |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 20.26                 | 20.33                    | 19.99                  | 21.7                |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 20.26                 | 20.33                    | 20.00                  | 21.7                |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 20.25                 | 20.34                    | 19.99                  | 21.7                |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 20.25                 | 20.33                    | 19.99                  | 21.7                |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 20.26                 | 20.34                    | 19.99                  | 21.7                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 9.33                  | 9.35                     | 9.27                   | 10.6                |
| 100             | PI/2 BPSK  | 1       | 137       | 9.14                  | 9.28                     | 9.16                   |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 9.20                  | 9.30                     | 9.19                   |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 9.05                  | 9.23                     | 9.03                   | 10.6                |
| 100             | PI/2 BPSK  | 135     | 69        | 9.17                  | 9.33                     | 9.20                   | 10.6                |
| 100             | PI/2 BPSK  | 135     | 138       | 9.07                  | 9.26                     | 9.06                   | 10.6                |
| 100             | PI/2 BPSK  | 270     | 0         | 9.14                  | 9.27                     | 9.09                   |                     |
| 100             | QPSK       | 1       | 1         | 9.15                  | 9.29                     | 9.17                   | 10.6                |
| 100             | QPSK       | 1       | 137       | 9.11                  | 9.23                     | 9.09                   |                     |
| 100             | QPSK       | 1       | 271       | 9.02                  | 9.18                     | 9.05                   |                     |
| 100             | QPSK       | 135     | 0         | 9.08                  | 9.23                     | 9.13                   | 10.6                |
| 100             | QPSK       | 135     | 69        | 9.16                  | 9.26                     | 9.11                   |                     |
| 100             | QPSK       | 135     | 138       | 9.12                  | 9.22                     | 9.08                   |                     |
| 100             | QPSK       | 270     | 0         | 9.07                  | 9.24                     | 9.13                   | 10.6                |
| 100             | 16QAM      | 1       | 1         | 9.14                  | 9.26                     | 9.15                   | 10.6                |
| 100             | 64QAM      | 1       | 1         | 9.02                  | 9.19                     | 9.01                   | 10.6                |
| 100             | 256QAM     | 1       | 1         | 9.02                  | 9.18                     | 9.02                   | 10.6                |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 9.22                  | 9.23                     | 9.16                   | 10.6                |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 9.16                  | 9.18                     | 9.12                   | 10.6                |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 9.13                  | 9.21                     | 9.13                   | 10.6                |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 9.18                  | 9.21                     | 9.10                   | 10.6                |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 9.21                  | 9.22                     | 9.11                   | 10.6                |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 9.21                  | 9.24                     | 9.11                   | 10.6                |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 9.22                  | 9.25                     | 9.17                   | 10.6                |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 9.16                  | 9.15                     | 9.11                   | 10.6                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 9.46                  | 9.57                     | 9.52                   | 10.5                |
| 100             | PI/2 BPSK  | 1       | 137       | 9.33                  | 9.48                     | 9.35                   |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 9.37                  | 9.52                     | 9.37                   |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 9.36                  | 9.53                     | 9.35                   | 10.5                |
| 100             | PI/2 BPSK  | 135     | 69        | 9.36                  | 9.54                     | 9.38                   | 10.5                |
| 100             | PI/2 BPSK  | 135     | 138       | 9.27                  | 9.46                     | 9.30                   | 10.5                |
| 100             | PI/2 BPSK  | 270     | 0         | 9.28                  | 9.47                     | 9.32                   |                     |
| 100             | QPSK       | 1       | 1         | 9.33                  | 9.49                     | 9.36                   | 10.5                |
| 100             | QPSK       | 1       | 137       | 9.23                  | 9.43                     | 9.25                   |                     |
| 100             | QPSK       | 1       | 271       | 9.38                  | 9.48                     | 9.35                   |                     |
| 100             | QPSK       | 135     | 0         | 9.15                  | 9.33                     | 9.13                   | 10.5                |
| 100             | QPSK       | 135     | 69        | 9.28                  | 9.46                     | 9.36                   |                     |
| 100             | QPSK       | 135     | 138       | 9.29                  | 9.42                     | 9.31                   |                     |
| 100             | QPSK       | 270     | 0         | 9.26                  | 9.44                     | 9.28                   | 10.5                |
| 100             | 16QAM      | 1       | 1         | 9.17                  | 9.36                     | 9.21                   | 10.5                |
| 100             | 64QAM      | 1       | 1         | 9.40                  | 9.51                     | 9.31                   | 10.5                |
| 100             | 256QAM     | 1       | 1         | 9.31                  | 9.48                     | 9.31                   | 10.5                |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 9.27                  | 9.38                     | 9.34                   | 10.5                |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 9.29                  | 9.43                     | 9.41                   | 10.5                |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 9.36                  | 9.39                     | 9.32                   | 10.5                |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 9.34                  | 9.47                     | 9.39                   | 10.5                |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 9.27                  | 9.38                     | 9.40                   | 10.5                |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 9.26                  | 9.40                     | 9.41                   | 10.5                |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 9.33                  | 9.46                     | 9.35                   | 10.5                |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 9.31                  | 9.42                     | 9.34                   | 10.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 11.23                 | 11.27                    | 11.21                  | 12.0                |
| 100             | PI/2 BPSK  | 1       | 137       | 11.06                 | 11.22                    | 10.97                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 11.04                 | 11.20                    | 11.02                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 11.04                 | 11.23                    | 11.07                  | 12.0                |
| 100             | PI/2 BPSK  | 135     | 69        | 11.06                 | 11.25                    | 11.08                  | 12.0                |
| 100             | PI/2 BPSK  | 135     | 138       | 10.96                 | 11.16                    | 10.91                  | 12.0                |
| 100             | PI/2 BPSK  | 270     | 0         | 11.05                 | 11.20                    | 10.96                  |                     |
| 100             | QPSK       | 1       | 1         | 11.02                 | 11.26                    | 11.09                  | 12.0                |
| 100             | QPSK       | 1       | 137       | 11.04                 | 11.23                    | 11.06                  |                     |
| 100             | QPSK       | 1       | 271       | 10.98                 | 11.19                    | 11.00                  |                     |
| 100             | QPSK       | 135     | 0         | 10.97                 | 11.19                    | 11.02                  | 12.0                |
| 100             | QPSK       | 135     | 69        | 11.00                 | 11.23                    | 11.11                  |                     |
| 100             | QPSK       | 135     | 138       | 11.02                 | 11.22                    | 11.09                  |                     |
| 100             | QPSK       | 270     | 0         | 10.93                 | 11.15                    | 10.93                  | 12.0                |
| 100             | 16QAM      | 1       | 1         | 10.95                 | 11.17                    | 10.97                  | 12.0                |
| 100             | 64QAM      | 1       | 1         | 11.07                 | 11.19                    | 10.99                  | 12.0                |
| 100             | 256QAM     | 1       | 1         | 10.95                 | 11.13                    | 10.99                  | 12.0                |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 11.02                 | 11.06                    | 11.01                  | 12.0                |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 11.03                 | 11.04                    | 11.06                  | 12.0                |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 11.09                 | 11.13                    | 11.08                  | 12.0                |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 11.09                 | 11.07                    | 10.96                  | 12.0                |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 11.02                 | 11.10                    | 10.95                  | 12.0                |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 11.03                 | 11.13                    | 11.00                  | 12.0                |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 10.97                 | 11.01                    | 11.00                  | 12.0                |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 11.01                 | 11.07                    | 11.06                  | 12.0                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 20.99                 | 21.08                    | 20.91                  | 22.0                |
| 100             | PI/2 BPSK  | 1       | 137       | 20.97                 | 21.04                    | 20.85                  |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 20.97                 | 21.03                    | 20.90                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 20.87                 | 20.96                    | 20.77                  | 22.0                |
| 100             | PI/2 BPSK  | 135     | 69        | 20.87                 | 20.99                    | 20.80                  | 22.0                |
| 100             | PI/2 BPSK  | 135     | 138       | 20.78                 | 20.94                    | 20.82                  | 22.0                |
| 100             | PI/2 BPSK  | 270     | 0         | 20.89                 | 20.96                    | 20.77                  |                     |
| 100             | QPSK       | 1       | 1         | 20.98                 | 21.07                    | 20.94                  | 22.0                |
| 100             | QPSK       | 1       | 137       | 20.89                 | 21.04                    | 20.87                  |                     |
| 100             | QPSK       | 1       | 271       | 20.90                 | 21.01                    | 20.83                  |                     |
| 100             | QPSK       | 135     | 0         | 20.84                 | 20.99                    | 20.86                  | 22.0                |
| 100             | QPSK       | 135     | 69        | 20.93                 | 21.00                    | 20.80                  |                     |
| 100             | QPSK       | 135     | 138       | 20.83                 | 20.97                    | 20.76                  |                     |
| 100             | QPSK       | 270     | 0         | 20.86                 | 20.96                    | 20.80                  | 22.0                |
| 100             | 16QAM      | 1       | 1         | 20.89                 | 21.03                    | 20.81                  | 22.0                |
| 100             | 64QAM      | 1       | 1         | 20.84                 | 21.00                    | 20.88                  | 22.0                |
| 100             | 256QAM     | 1       | 1         | 19.30                 | 19.43                    | 19.24                  | 20.5                |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 20.88                 | 20.88                    | 20.77                  | 22.0                |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 20.87                 | 20.97                    | 20.73                  | 22.0                |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 20.86                 | 20.96                    | 20.79                  | 22.0                |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 20.80                 | 20.96                    | 20.76                  | 22.0                |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 20.84                 | 20.92                    | 20.76                  | 22.0                |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 20.81                 | 20.93                    | 20.75                  | 22.0                |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 20.89                 | 20.90                    | 20.73                  | 22.0                |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 20.86                 | 20.96                    | 20.79                  | 22.0                |





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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 4.63                  | 4.77                     | 4.71                   | 5.0                 |
| 100             | PI/2 BPSK  | 1       | 137       | 4.53                  | 4.72                     | 4.62                   |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 4.50                  | 4.70                     | 4.56                   |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 4.50                  | 4.73                     | 4.61                   | 5.0                 |
| 100             | PI/2 BPSK  | 135     | 69        | 4.59                  | 4.75                     | 4.61                   | 5.0                 |
| 100             | PI/2 BPSK  | 135     | 138       | 4.50                  | 4.66                     | 4.56                   | 5.0                 |
| 100             | PI/2 BPSK  | 270     | 0         | 4.47                  | 4.70                     | 4.62                   |                     |
| 100             | QPSK       | 1       | 1         | 4.60                  | 4.76                     | 4.66                   | 5.0                 |
| 100             | QPSK       | 1       | 137       | 4.54                  | 4.73                     | 4.66                   |                     |
| 100             | QPSK       | 1       | 271       | 4.54                  | 4.69                     | 4.62                   |                     |
| 100             | QPSK       | 135     | 0         | 4.46                  | 4.69                     | 4.60                   | 5.0                 |
| 100             | QPSK       | 135     | 69        | 4.52                  | 4.73                     | 4.57                   |                     |
| 100             | QPSK       | 135     | 138       | 4.56                  | 4.72                     | 4.62                   |                     |
| 100             | QPSK       | 270     | 0         | 4.51                  | 4.65                     | 4.53                   | 5.0                 |
| 100             | 16QAM      | 1       | 1         | 4.50                  | 4.67                     | 4.56                   | 5.0                 |
| 100             | 64QAM      | 1       | 1         | 4.52                  | 4.69                     | 4.60                   | 5.0                 |
| 100             | 256QAM     | 1       | 1         | 4.41                  | 4.63                     | 4.52                   | 5.0                 |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 4.53                  | 4.66                     | 4.55                   | 5.0                 |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 4.50                  | 4.65                     | 4.49                   | 5.0                 |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 4.41                  | 4.59                     | 4.54                   | 5.0                 |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 4.47                  | 4.62                     | 4.59                   | 5.0                 |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 4.41                  | 4.64                     | 4.54                   | 5.0                 |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 4.53                  | 4.61                     | 4.61                   | 5.0                 |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 4.51                  | 4.65                     | 4.58                   | 5.0                 |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 4.53                  | 4.57                     | 4.53                   | 5.0                 |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 12.33                 | 12.47                    | 12.41                  |                     |
| 100             | PI/2 BPSK  | 1       | 137       | 12.28                 | 12.42                    | 12.26                  | 12.7                |
| 100             | PI/2 BPSK  | 1       | 271       | 12.20                 | 12.40                    | 12.30                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 12.22                 | 12.43                    | 12.31                  |                     |
| 100             | PI/2 BPSK  | 135     | 69        | 12.23                 | 12.45                    | 12.30                  | 12.7                |
| 100             | PI/2 BPSK  | 135     | 138       | 12.14                 | 12.36                    | 12.24                  | 12.7                |
| 100             | PI/2 BPSK  | 270     | 0         | 12.26                 | 12.40                    | 12.34                  |                     |
| 100             | QPSK       | 1       | 1         | 12.27                 | 12.46                    | 12.32                  | 12.7                |
| 100             | QPSK       | 1       | 137       | 12.22                 | 12.43                    | 12.37                  |                     |
| 100             | QPSK       | 1       | 271       | 12.17                 | 12.39                    | 12.23                  |                     |
| 100             | QPSK       | 135     | 0         | 12.15                 | 12.39                    | 12.30                  | 12.7                |
| 100             | QPSK       | 135     | 69        | 12.28                 | 12.43                    | 12.35                  |                     |
| 100             | QPSK       | 135     | 138       | 12.18                 | 12.42                    | 12.33                  |                     |
| 100             | QPSK       | 270     | 0         | 12.15                 | 12.35                    | 12.23                  | 12.7                |
| 100             | 16QAM      | 1       | 1         | 12.14                 | 12.37                    | 12.28                  | 12.7                |
| 100             | 64QAM      | 1       | 1         | 12.15                 | 12.39                    | 12.33                  | 12.7                |
| 100             | 256QAM     | 1       | 1         | 12.19                 | 12.33                    | 12.25                  | 12.7                |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.23                 | 12.42                    | 12.41                  | 12.7                |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.36                    | 12.24                  | 12.7                |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.10                 | 12.34                    | 12.23                  | 12.7                |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.19                 | 12.42                    | 12.26                  | 12.7                |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.13                 | 12.38                    | 12.24                  | 12.7                |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.09                 | 12.31                    | 12.15                  | 12.7                |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.37                    | 12.24                  | 12.7                |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.40                    | 12.31                  | 12.7                |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 20.27               |
| 100             | PI/2 BPSK             | 1                        | 137                    | 20.19               |
| 100             | PI/2 BPSK             | 1                        | 271                    | 20.09               |
| 100             | PI/2 BPSK             | 135                      | 0                      | 20.24               |
| 100             | PI/2 BPSK             | 135                      | 69                     | 20.24               |
| 100             | PI/2 BPSK             | 135                      | 138                    | 20.06               |
| 100             | PI/2 BPSK             | 270                      | 0                      | 20.22               |
| 100             | QPSK                  | 1                        | 1                      | 20.28               |
| 100             | QPSK                  | 1                        | 137                    | 20.17               |
| 100             | QPSK                  | 1                        | 271                    | 20.19               |
| 100             | QPSK                  | 135                      | 0                      | 20.27               |
| 100             | QPSK                  | 135                      | 69                     | 20.14               |
| 100             | QPSK                  | 135                      | 138                    | 20.10               |
| 100             | QPSK                  | 270                      | 0                      | 20.16               |
| 100             | 16QAM                 | 1                        | 1                      | 20.32               |
| 100             | 64QAM                 | 1                        | 1                      | 20.30               |
| 100             | 256QAM                | 1                        | 1                      | 20.25               |
| Channel         | 649668                | 656000                   | 662332                 |                     |
| Frequency (MHz) | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 20.25               |
| Channel         | 649334                | 656000                   | 662666                 |                     |
| Frequency (MHz) | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 20.25               |
| Channel         | 649000                | 656000                   | 663000                 |                     |
| Frequency (MHz) | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 20.25               |
| Channel         | 648668                | 656000                   | 663332                 |                     |
| Frequency (MHz) | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 20.26               |
| Channel         | 648334                | 656000                   | 663666                 |                     |
| Frequency (MHz) | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 20.26               |
| Channel         | 648000                | 656000                   | 664000                 |                     |
| Frequency (MHz) | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 20.25               |
| Channel         | 647668                | 656000                   | 664332                 |                     |
| Frequency (MHz) | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 20.25               |
| Channel         | 647334                | 656000                   | 664666                 |                     |
| Frequency (MHz) | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 20.26               |



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| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|---------|-----------------------|--------------------------|------------------------|---------------------|
| 650000  | 656000                | 662000                   |                        |                     |
| 3750    | 3840                  | 3930                     |                        |                     |
| 100     | 9.33                  | 9.35                     | 9.27                   | 10.6                |
| 100     | 9.14                  | 9.28                     | 9.16                   |                     |
| 100     | 9.20                  | 9.30                     | 9.19                   |                     |
| 100     | 9.05                  | 9.23                     | 9.03                   | 10.6                |
| 100     | 9.17                  | 9.33                     | 9.20                   | 10.6                |
| 100     | 9.07                  | 9.26                     | 9.06                   | 10.6                |
| 100     | 9.14                  | 9.27                     | 9.09                   |                     |
| 100     | 9.15                  | 9.29                     | 9.17                   | 10.6                |
| 100     | 9.11                  | 9.23                     | 9.09                   |                     |
| 100     | 9.02                  | 9.18                     | 9.05                   |                     |
| 100     | 9.08                  | 9.23                     | 9.13                   | 10.6                |
| 100     | 9.16                  | 9.26                     | 9.11                   |                     |
| 100     | 9.12                  | 9.22                     | 9.08                   |                     |
| 100     | 9.07                  | 9.24                     | 9.13                   | 10.6                |
| 100     | 9.14                  | 9.26                     | 9.15                   | 10.6                |
| 100     | 9.02                  | 9.19                     | 9.01                   | 10.6                |
| 100     | 9.02                  | 9.18                     | 9.02                   | 10.6                |
| 649668  | 656000                | 662332                   |                        |                     |
| 3745.02 | 3840                  | 3934.98                  |                        |                     |
| 90      | 9.22                  | 9.23                     | 9.16                   | 10.6                |
| 649334  | 656000                | 662666                   |                        |                     |
| 3740.01 | 3840                  | 3939.99                  |                        |                     |
| 80      | 9.16                  | 9.18                     | 9.12                   | 10.6                |
| 649000  | 656000                | 663000                   |                        |                     |
| 3735    | 3840                  | 3945                     |                        |                     |
| 70      | 9.13                  | 9.21                     | 9.13                   | 10.6                |
| 648668  | 656000                | 663332                   |                        |                     |
| 3730.02 | 3840                  | 3949.98                  |                        |                     |
| 60      | 9.18                  | 9.21                     | 9.10                   | 10.6                |
| 648334  | 656000                | 663666                   |                        |                     |
| 3725.01 | 3840                  | 3954.99                  |                        |                     |
| 50      | 9.21                  | 9.22                     | 9.11                   | 10.6                |
| 648000  | 656000                | 664000                   |                        |                     |
| 3720    | 3840                  | 3960                     |                        |                     |
| 40      | 9.21                  | 9.24                     | 9.11                   | 10.6                |
| 647668  | 656000                | 664332                   |                        |                     |
| 3715.02 | 3840.00               | 3964.98                  |                        |                     |
| 30      | 9.22                  | 9.25                     | 9.17                   | 10.6                |
| 647334  | 656000                | 664666                   |                        |                     |
| 3710.01 | 3840                  | 3969.99                  |                        |                     |
| 20      | 9.16                  | 9.15                     | 9.11                   | 10.6                |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 10.5                |
| 100             | PI/2 BPSK             | 1                        | 137                    |                     |
| 100             | PI/2 BPSK             | 1                        | 271                    |                     |
| 100             | PI/2 BPSK             | 135                      | 0                      | 10.5                |
| 100             | PI/2 BPSK             | 135                      | 69                     | 10.5                |
| 100             | PI/2 BPSK             | 135                      | 138                    | 10.5                |
| 100             | PI/2 BPSK             | 270                      | 0                      |                     |
| 100             | QPSK                  | 1                        | 1                      | 10.5                |
| 100             | QPSK                  | 1                        | 137                    |                     |
| 100             | QPSK                  | 1                        | 271                    |                     |
| 100             | QPSK                  | 135                      | 0                      | 10.5                |
| 100             | QPSK                  | 135                      | 69                     |                     |
| 100             | QPSK                  | 135                      | 138                    |                     |
| 100             | QPSK                  | 270                      | 0                      | 10.5                |
| 100             | 16QAM                 | 1                        | 1                      | 10.5                |
| 100             | 64QAM                 | 1                        | 1                      | 10.5                |
| 100             | 256QAM                | 1                        | 1                      | 10.5                |
| Channel         | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 10.5                |
| Channel         | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 10.5                |
| Channel         | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 10.5                |
| Channel         | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 10.5                |
| Channel         | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 10.5                |
| Channel         | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 10.5                |
| Channel         | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 10.5                |
| Channel         | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 10.5                |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 11.23               |
| 100             | PI/2 BPSK             | 1                        | 137                    | 11.06               |
| 100             | PI/2 BPSK             | 1                        | 271                    | 11.04               |
| 100             | PI/2 BPSK             | 135                      | 0                      | 11.04               |
| 100             | PI/2 BPSK             | 135                      | 69                     | 11.06               |
| 100             | PI/2 BPSK             | 135                      | 138                    | 10.96               |
| 100             | PI/2 BPSK             | 270                      | 0                      | 11.05               |
| 100             | QPSK                  | 1                        | 1                      | 11.02               |
| 100             | QPSK                  | 1                        | 137                    | 11.04               |
| 100             | QPSK                  | 1                        | 271                    | 10.98               |
| 100             | QPSK                  | 135                      | 0                      | 10.97               |
| 100             | QPSK                  | 135                      | 69                     | 11.00               |
| 100             | QPSK                  | 135                      | 138                    | 11.02               |
| 100             | QPSK                  | 270                      | 0                      | 10.93               |
| 100             | 16QAM                 | 1                        | 1                      | 10.95               |
| 100             | 64QAM                 | 1                        | 1                      | 11.07               |
| 100             | 256QAM                | 1                        | 1                      | 10.95               |
| Channel         | 649668                | 656000                   | 662332                 |                     |
| Frequency (MHz) | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 11.02               |
| Channel         | 649334                | 656000                   | 662666                 |                     |
| Frequency (MHz) | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 11.03               |
| Channel         | 649000                | 656000                   | 663000                 |                     |
| Frequency (MHz) | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 11.09               |
| Channel         | 648668                | 656000                   | 663332                 |                     |
| Frequency (MHz) | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 11.09               |
| Channel         | 648334                | 656000                   | 663666                 |                     |
| Frequency (MHz) | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 11.02               |
| Channel         | 648000                | 656000                   | 664000                 |                     |
| Frequency (MHz) | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 11.03               |
| Channel         | 647668                | 656000                   | 664332                 |                     |
| Frequency (MHz) | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 10.97               |
| Channel         | 647334                | 656000                   | 664666                 |                     |
| Frequency (MHz) | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 11.01               |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |       |       |      |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|-------|-------|------|
| Channel         | 650000                | 656000                   | 662000                 |                     |       |       |      |
| Frequency (MHz) | 3750                  | 3840                     | 3930                   |                     |       |       |      |
| 100             | PI/2 BPSK             | 1                        | 1                      | 23.94               | 24.00 | 23.88 | 25.0 |
| 100             | PI/2 BPSK             | 1                        | 137                    | 23.74               | 23.90 | 23.72 |      |
| 100             | PI/2 BPSK             | 1                        | 271                    | 23.52               | 23.58 | 23.46 |      |
| 100             | PI/2 BPSK             | 135                      | 0                      | 23.48               | 23.54 | 23.35 | 24.5 |
| 100             | PI/2 BPSK             | 135                      | 69                     | 23.70               | 23.82 | 23.68 | 25.0 |
| 100             | PI/2 BPSK             | 135                      | 138                    | 23.12               | 23.22 | 23.05 | 24.5 |
| 100             | PI/2 BPSK             | 270                      | 0                      | 23.24               | 23.34 | 23.13 |      |
| 100             | QPSK                  | 1                        | 1                      | 23.69               | 23.84 | 23.68 | 24.5 |
| 100             | QPSK                  | 1                        | 137                    | 23.47               | 23.63 | 23.43 |      |
| 100             | QPSK                  | 1                        | 271                    | 23.21               | 23.37 | 23.24 |      |
| 100             | QPSK                  | 135                      | 0                      | 23.02               | 23.08 | 22.93 | 24.5 |
| 100             | QPSK                  | 135                      | 69                     | 23.66               | 23.74 | 23.58 |      |
| 100             | QPSK                  | 135                      | 138                    | 22.95               | 23.11 | 22.98 |      |
| 100             | QPSK                  | 270                      | 0                      | 22.90               | 22.98 | 22.79 | 24.0 |
| 100             | 16QAM                 | 1                        | 1                      | 22.93               | 23.00 | 22.83 | 24.0 |
| 100             | 64QAM                 | 1                        | 1                      | 21.37               | 21.53 | 21.33 | 22.5 |
| 100             | 256QAM                | 1                        | 1                      | 19.40               | 19.55 | 19.41 | 20.5 |
| Channel         | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |       |       |      |
| Frequency (MHz) | 3745.02               | 3840                     | 3934.98                |                     |       |       |      |
| 90              | PI/2 BPSK             | 1                        | 1                      | 23.72               | 23.81 | 23.73 | 25.0 |
| Channel         | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |       |       |      |
| Frequency (MHz) | 3740.01               | 3840                     | 3939.99                |                     |       |       |      |
| 80              | PI/2 BPSK             | 1                        | 1                      | 23.73               | 23.79 | 23.68 | 25.0 |
| Channel         | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |       |       |      |
| Frequency (MHz) | 3735                  | 3840                     | 3945                   |                     |       |       |      |
| 70              | PI/2 BPSK             | 1                        | 1                      | 23.73               | 23.83 | 23.72 | 25.0 |
| Channel         | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |       |       |      |
| Frequency (MHz) | 3730.02               | 3840                     | 3949.98                |                     |       |       |      |
| 60              | PI/2 BPSK             | 1                        | 1                      | 23.74               | 23.84 | 23.68 | 25.0 |
| Channel         | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |       |       |      |
| Frequency (MHz) | 3725.01               | 3840                     | 3954.99                |                     |       |       |      |
| 50              | PI/2 BPSK             | 1                        | 1                      | 23.79               | 23.80 | 23.70 | 25.0 |
| Channel         | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |       |       |      |
| Frequency (MHz) | 3720                  | 3840                     | 3960                   |                     |       |       |      |
| 40              | PI/2 BPSK             | 1                        | 1                      | 23.76               | 23.79 | 23.67 | 25.0 |
| Channel         | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |       |       |      |
| Frequency (MHz) | 3715.02               | 3840.00                  | 3964.98                |                     |       |       |      |
| 30              | PI/2 BPSK             | 1                        | 1                      | 23.77               | 23.77 | 23.68 | 25.0 |
| Channel         | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |       |       |      |
| Frequency (MHz) | 3710.01               | 3840                     | 3969.99                |                     |       |       |      |
| 20              | PI/2 BPSK             | 1                        | 1                      | 23.79               | 23.85 | 23.66 | 25.0 |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 4.63                  | 4.77                     | 4.71                   | 5.0                 |
| 100             | PI/2 BPSK  | 1       | 137       | 4.53                  | 4.72                     | 4.62                   |                     |
| 100             | PI/2 BPSK  | 1       | 271       | 4.50                  | 4.70                     | 4.56                   |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 4.50                  | 4.73                     | 4.61                   | 5.0                 |
| 100             | PI/2 BPSK  | 135     | 69        | 4.59                  | 4.75                     | 4.61                   | 5.0                 |
| 100             | PI/2 BPSK  | 135     | 138       | 4.50                  | 4.66                     | 4.56                   | 5.0                 |
| 100             | PI/2 BPSK  | 270     | 0         | 4.47                  | 4.70                     | 4.62                   |                     |
| 100             | QPSK       | 1       | 1         | 4.60                  | 4.76                     | 4.66                   | 5.0                 |
| 100             | QPSK       | 1       | 137       | 4.54                  | 4.73                     | 4.66                   |                     |
| 100             | QPSK       | 1       | 271       | 4.54                  | 4.69                     | 4.62                   |                     |
| 100             | QPSK       | 135     | 0         | 4.46                  | 4.69                     | 4.60                   | 5.0                 |
| 100             | QPSK       | 135     | 69        | 4.52                  | 4.73                     | 4.57                   |                     |
| 100             | QPSK       | 135     | 138       | 4.56                  | 4.72                     | 4.62                   |                     |
| 100             | QPSK       | 270     | 0         | 4.51                  | 4.65                     | 4.53                   | 5.0                 |
| 100             | 16QAM      | 1       | 1         | 4.50                  | 4.67                     | 4.56                   | 5.0                 |
| 100             | 64QAM      | 1       | 1         | 4.52                  | 4.69                     | 4.60                   | 5.0                 |
| 100             | 256QAM     | 1       | 1         | 4.41                  | 4.63                     | 4.52                   | 5.0                 |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 4.53                  | 4.66                     | 4.55                   | 5.0                 |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 4.50                  | 4.65                     | 4.49                   | 5.0                 |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 4.41                  | 4.59                     | 4.54                   | 5.0                 |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 4.47                  | 4.62                     | 4.59                   | 5.0                 |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 4.41                  | 4.64                     | 4.54                   | 5.0                 |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 4.53                  | 4.61                     | 4.61                   | 5.0                 |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 4.51                  | 4.65                     | 4.58                   | 5.0                 |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 4.53                  | 4.57                     | 4.53                   | 5.0                 |





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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 650000                | 656000                   | 662000                 |                     |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 12.33                 | 12.47                    | 12.41                  |                     |
| 100             | PI/2 BPSK  | 1       | 137       | 12.28                 | 12.42                    | 12.26                  | 12.7                |
| 100             | PI/2 BPSK  | 1       | 271       | 12.20                 | 12.40                    | 12.30                  | 12.7                |
| 100             | PI/2 BPSK  | 135     | 0         | 12.22                 | 12.43                    | 12.31                  |                     |
| 100             | PI/2 BPSK  | 135     | 69        | 12.23                 | 12.45                    | 12.30                  | 12.7                |
| 100             | PI/2 BPSK  | 135     | 138       | 12.14                 | 12.36                    | 12.24                  | 12.7                |
| 100             | PI/2 BPSK  | 270     | 0         | 12.26                 | 12.40                    | 12.34                  |                     |
| 100             | QPSK       | 1       | 1         | 12.27                 | 12.46                    | 12.32                  | 12.7                |
| 100             | QPSK       | 1       | 137       | 12.22                 | 12.43                    | 12.37                  |                     |
| 100             | QPSK       | 1       | 271       | 12.17                 | 12.39                    | 12.23                  |                     |
| 100             | QPSK       | 135     | 0         | 12.15                 | 12.39                    | 12.30                  | 12.7                |
| 100             | QPSK       | 135     | 69        | 12.28                 | 12.43                    | 12.35                  |                     |
| 100             | QPSK       | 135     | 138       | 12.18                 | 12.42                    | 12.33                  |                     |
| 100             | QPSK       | 270     | 0         | 12.15                 | 12.35                    | 12.23                  | 12.7                |
| 100             | 16QAM      | 1       | 1         | 12.14                 | 12.37                    | 12.28                  | 12.7                |
| 100             | 64QAM      | 1       | 1         | 12.15                 | 12.39                    | 12.33                  | 12.7                |
| 100             | 256QAM     | 1       | 1         | 12.19                 | 12.33                    | 12.25                  | 12.7                |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.23                 | 12.42                    | 12.41                  | 12.7                |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.36                    | 12.24                  | 12.7                |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.10                 | 12.34                    | 12.23                  | 12.7                |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.19                 | 12.42                    | 12.26                  | 12.7                |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.13                 | 12.38                    | 12.24                  | 12.7                |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.09                 | 12.31                    | 12.15                  | 12.7                |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.37                    | 12.24                  | 12.7                |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.40                    | 12.31                  | 12.7                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 20.25                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 20.14                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 20.22                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 20.23                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 20.24                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 20.20                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 20.18                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 20.18                    |                        | 21.7                |
| 100             | QPSK       | 1       | 137       |                       | 20.20                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 20.15                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 20.16                    |                        | 21.7                |
| 100             | QPSK       | 135     | 69        |                       | 20.22                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 20.24                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 20.18                    |                        | 21.7                |
| 100             | 16QAM      | 1       | 1         |                       | 20.12                    |                        | 21.7                |
| 100             | 64QAM      | 1       | 1         |                       | 20.23                    |                        | 21.7                |
| 100             | 256QAM     | 1       | 1         |                       | 19.98                    |                        | 21.7                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 20.23                 | 20.22                    | 20.23                  | 21.7                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 20.21                 | 20.20                    | 20.21                  | 21.7                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 20.21                 | 20.20                    | 20.22                  | 21.7                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 20.22                 | 20.21                    | 20.21                  | 21.7                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 20.22                 | 20.20                    | 20.21                  | 21.7                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 20.22                 | 20.21                    | 20.21                  | 21.7                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 20.21                 | 20.21                    | 20.22                  | 21.7                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 20.21                 | 20.21                    | 20.21                  | 21.7                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 9.25                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 9.16                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 9.10                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 9.19                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 9.22                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 9.11                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 9.13                     |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 9.16                     |                        | 10.6                |
| 100             | QPSK       | 1       | 137       |                       | 9.13                     |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 9.09                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 9.07                     |                        | 10.6                |
| 100             | QPSK       | 135     | 69        |                       | 9.11                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 9.01                     |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 9.02                     |                        | 10.6                |
| 100             | 16QAM      | 1       | 1         |                       | 9.19                     |                        | 10.6                |
| 100             | 64QAM      | 1       | 1         |                       | 9.18                     |                        | 10.6                |
| 100             | 256QAM     | 1       | 1         |                       | 9.09                     |                        | 10.6                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 9.11                  | 9.13                     | 9.14                   | 10.6                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 8.95                  | 8.99                     | 8.94                   | 10.6                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 8.97                  | 9.01                     | 9.03                   | 10.6                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 9.00                  | 8.94                     | 9.04                   | 10.6                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 8.98                  | 9.00                     | 8.94                   | 10.6                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 8.91                  | 9.02                     | 9.03                   | 10.6                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 8.97                  | 8.99                     | 8.94                   | 10.6                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 8.98                  | 8.96                     | 9.02                   | 10.6                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 9.51                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 9.44                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 9.45                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 9.39                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 9.47                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 9.41                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 9.42                     |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 9.46                     |                        | 10.5                |
| 100             | QPSK       | 1       | 137       |                       | 9.43                     |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 9.39                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 9.42                     |                        | 10.5                |
| 100             | QPSK       | 135     | 69        |                       | 9.46                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 9.31                     |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 9.37                     |                        | 10.5                |
| 100             | 16QAM      | 1       | 1         |                       | 9.39                     |                        | 10.5                |
| 100             | 64QAM      | 1       | 1         |                       | 9.48                     |                        | 10.5                |
| 100             | 256QAM     | 1       | 1         |                       | 9.43                     |                        | 10.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 9.42                  | 9.48                     | 9.45                   | 10.5                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 9.23                  | 9.29                     | 9.29                   | 10.5                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 9.32                  | 9.34                     | 9.25                   | 10.5                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 9.27                  | 9.35                     | 9.25                   | 10.5                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 9.22                  | 9.34                     | 9.27                   | 10.5                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 9.25                  | 9.31                     | 9.32                   | 10.5                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 9.23                  | 9.28                     | 9.26                   | 10.5                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 9.30                  | 9.30                     | 9.32                   | 10.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 11.23                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 11.16                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 11.10                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 11.19                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 11.22                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 11.21                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 11.14                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 11.19                    |                        | 12.0                |
| 100             | QPSK       | 1       | 137       |                       | 11.13                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 11.16                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 11.17                    |                        | 12.0                |
| 100             | QPSK       | 135     | 69        |                       | 11.18                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 11.11                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 11.13                    |                        | 12.0                |
| 100             | 16QAM      | 1       | 1         |                       | 11.19                    |                        | 12.0                |
| 100             | 64QAM      | 1       | 1         |                       | 11.12                    |                        | 12.0                |
| 100             | 256QAM     | 1       | 1         |                       | 11.16                    |                        | 12.0                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 11.20                 | 11.21                    | 11.18                  | 12.0                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 11.03                 | 11.03                    | 11.05                  | 12.0                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 11.06                 | 11.04                    | 11.01                  | 12.0                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 11.03                 | 11.05                    | 11.01                  | 12.0                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 11.04                 | 11.06                    | 11.04                  | 12.0                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 11.04                 | 11.15                    | 11.02                  | 12.0                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 11.04                 | 11.12                    | 11.01                  | 12.0                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 11.02                 | 11.08                    | 11.05                  | 12.0                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 21.04                    |                        | 22.0                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 21.01                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 21.00                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 20.86                    |                        | 22.0                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 20.92                    |                        | 22.0                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 20.90                    |                        | 22.0                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 20.88                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 21.02                    |                        |                     |
| 100             | QPSK       | 1       | 137       |                       | 21.01                    |                        | 22.0                |
| 100             | QPSK       | 1       | 271       |                       | 20.98                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 20.94                    |                        |                     |
| 100             | QPSK       | 135     | 69        |                       | 20.97                    |                        | 22.0                |
| 100             | QPSK       | 135     | 138       |                       | 20.91                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 20.87                    |                        |                     |
| 100             | 16QAM      | 1       | 1         |                       | 21.00                    |                        | 22.0                |
| 100             | 64QAM      | 1       | 1         |                       | 20.40                    |                        | 22.0                |
| 100             | 256QAM     | 1       | 1         |                       | 19.25                    |                        | 20.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 20.98                 | 21.03                    | 21.01                  | 22.0                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 20.76                 | 20.81                    | 20.81                  | 22.0                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 20.81                 | 20.86                    | 20.80                  | 22.0                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 20.80                 | 20.84                    | 20.85                  | 22.0                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 20.84                 | 20.86                    | 20.87                  | 22.0                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 20.79                 | 20.88                    | 20.85                  | 22.0                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 20.82                 | 20.84                    | 20.88                  | 22.0                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 20.82                 | 20.90                    | 20.84                  | 22.0                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 4.73                     |                        | 5.0                 |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 4.66                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 4.60                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 4.69                     |                        | 5.0                 |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 4.72                     |                        | 5.0                 |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 4.71                     |                        | 5.0                 |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 4.64                     |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 4.69                     |                        | 5.0                 |
| 100             | QPSK       | 1       | 137       |                       | 4.63                     |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 4.66                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 4.67                     |                        | 5.0                 |
| 100             | QPSK       | 135     | 69        |                       | 4.68                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 4.61                     |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 4.63                     |                        | 5.0                 |
| 100             | 16QAM      | 1       | 1         |                       | 4.69                     |                        | 5.0                 |
| 100             | 64QAM      | 1       | 1         |                       | 4.62                     |                        | 5.0                 |
| 100             | 256QAM     | 1       | 1         |                       | 4.66                     |                        | 5.0                 |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 4.61                  | 4.58                     | 4.60                   | 5.0                 |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 4.50                  | 4.38                     | 4.44                   | 5.0                 |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 4.44                  | 4.35                     | 4.39                   | 5.0                 |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 4.42                  | 4.44                     | 4.41                   | 5.0                 |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 4.50                  | 4.36                     | 4.48                   | 5.0                 |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 4.42                  | 4.37                     | 4.49                   | 5.0                 |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 4.40                  | 4.41                     | 4.49                   | 5.0                 |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 4.39                  | 4.36                     | 4.42                   | 5.0                 |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 12.43                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 12.36                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 12.30                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 12.39                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 12.42                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 12.41                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 12.34                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 12.39                    |                        | 12.7                |
| 100             | QPSK       | 1       | 137       |                       | 12.33                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 12.36                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 12.37                    |                        | 12.7                |
| 100             | QPSK       | 135     | 69        |                       | 12.38                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 12.31                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 12.33                    |                        | 12.7                |
| 100             | 16QAM      | 1       | 1         |                       | 12.39                    |                        | 12.7                |
| 100             | 64QAM      | 1       | 1         |                       | 12.32                    |                        | 12.7                |
| 100             | 256QAM     | 1       | 1         |                       | 12.36                    |                        | 12.7                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.29                 | 12.38                    | 12.39                  | 12.7                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.28                 | 12.41                    | 12.19                  | 12.7                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.14                 | 12.39                    | 12.30                  | 12.7                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.14                 | 12.40                    | 12.26                  | 12.7                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.16                 | 12.35                    | 12.23                  | 12.7                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.09                 | 12.30                    | 12.16                  | 12.7                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.16                 | 12.37                    | 12.24                  | 12.7                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.22                 | 12.41                    | 12.27                  | 12.7                |





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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 20.25                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 20.14                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 20.22                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 20.23                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 20.24                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 20.20                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 20.18                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 20.18                    |                        | 21.7                |
| 100             | QPSK       | 1       | 137       |                       | 20.20                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 20.15                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 20.16                    |                        | 21.7                |
| 100             | QPSK       | 135     | 69        |                       | 20.22                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 20.24                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 20.18                    |                        | 21.7                |
| 100             | 16QAM      | 1       | 1         |                       | 20.12                    |                        | 21.7                |
| 100             | 64QAM      | 1       | 1         |                       | 20.23                    |                        | 21.7                |
| 100             | 256QAM     | 1       | 1         |                       | 19.98                    |                        | 21.7                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 20.23                 | 20.22                    | 20.23                  | 21.7                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 20.21                 | 20.20                    | 20.21                  | 21.7                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 20.21                 | 20.20                    | 20.22                  | 21.7                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 20.22                 | 20.21                    | 20.21                  | 21.7                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 20.22                 | 20.20                    | 20.21                  | 21.7                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 20.22                 | 20.21                    | 20.21                  | 21.7                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 20.21                 | 20.21                    | 20.22                  | 21.7                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 20.21                 | 20.21                    | 20.21                  | 21.7                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 9.25                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 9.16                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 9.10                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 9.19                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 9.22                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 9.11                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 9.13                     |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 9.16                     |                        | 10.6                |
| 100             | QPSK       | 1       | 137       |                       | 9.13                     |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 9.09                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 9.07                     |                        | 10.6                |
| 100             | QPSK       | 135     | 69        |                       | 9.11                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 9.01                     |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 9.02                     |                        | 10.6                |
| 100             | 16QAM      | 1       | 1         |                       | 9.19                     |                        | 10.6                |
| 100             | 64QAM      | 1       | 1         |                       | 9.18                     |                        | 10.6                |
| 100             | 256QAM     | 1       | 1         |                       | 9.09                     |                        | 10.6                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 9.15                  | 9.21                     | 9.13                   | 10.6                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 9.00                  | 9.02                     | 8.98                   | 10.6                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 9.05                  | 9.01                     | 9.02                   | 10.6                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 9.03                  | 9.02                     | 8.93                   | 10.6                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 9.04                  | 9.03                     | 8.97                   | 10.6                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 8.95                  | 9.01                     | 9.01                   | 10.6                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 9.02                  | 9.01                     | 9.03                   | 10.6                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 9.01                  | 9.07                     | 9.00                   | 10.6                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 9.51                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 9.44                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 9.45                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 9.39                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 9.47                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 9.41                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 9.42                     |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 9.46                     |                        | 10.5                |
| 100             | QPSK       | 1       | 137       |                       | 9.43                     |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 9.39                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 9.42                     |                        | 10.5                |
| 100             | QPSK       | 135     | 69        |                       | 9.46                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 9.31                     |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 9.37                     |                        | 10.5                |
| 100             | 16QAM      | 1       | 1         |                       | 9.39                     |                        | 10.5                |
| 100             | 64QAM      | 1       | 1         |                       | 9.48                     |                        | 10.5                |
| 100             | 256QAM     | 1       | 1         |                       | 9.43                     |                        | 10.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 9.42                  | 9.48                     | 9.45                   | 10.5                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 9.23                  | 9.29                     | 9.29                   | 10.5                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 9.32                  | 9.34                     | 9.25                   | 10.5                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 9.27                  | 9.35                     | 9.25                   | 10.5                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 9.22                  | 9.34                     | 9.27                   | 10.5                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 9.25                  | 9.31                     | 9.32                   | 10.5                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 9.23                  | 9.28                     | 9.26                   | 10.5                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 9.30                  | 9.30                     | 9.32                   | 10.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 11.23                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 11.16                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 11.10                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 11.19                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 11.22                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 11.21                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 11.14                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 11.19                    |                        | 12.0                |
| 100             | QPSK       | 1       | 137       |                       | 11.13                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 11.16                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 11.17                    |                        | 12.0                |
| 100             | QPSK       | 135     | 69        |                       | 11.18                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 11.11                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 11.13                    |                        | 12.0                |
| 100             | 16QAM      | 1       | 1         |                       | 11.19                    |                        | 12.0                |
| 100             | 64QAM      | 1       | 1         |                       | 11.12                    |                        | 12.0                |
| 100             | 256QAM     | 1       | 1         |                       | 11.16                    |                        | 12.0                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 11.20                 | 11.21                    | 11.18                  | 12.0                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 11.03                 | 11.03                    | 11.05                  | 12.0                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 11.06                 | 11.04                    | 11.01                  | 12.0                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 11.03                 | 11.05                    | 11.01                  | 12.0                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 11.04                 | 11.06                    | 11.04                  | 12.0                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 11.04                 | 11.15                    | 11.02                  | 12.0                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 11.04                 | 11.12                    | 11.01                  | 12.0                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 11.02                 | 11.08                    | 11.05                  | 12.0                |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 633332                   |                        |                     |
| Frequency (MHz) |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 23.91               |
| 100             | PI/2 BPSK             | 1                        | 137                    | 23.70               |
| 100             | PI/2 BPSK             | 1                        | 271                    | 23.49               |
| 100             | PI/2 BPSK             | 135                      | 0                      | 23.38               |
| 100             | PI/2 BPSK             | 135                      | 69                     | 23.68               |
| 100             | PI/2 BPSK             | 135                      | 138                    | 23.04               |
| 100             | PI/2 BPSK             | 270                      | 0                      | 23.14               |
| 100             | QPSK                  | 1                        | 1                      | 23.67               |
| 100             | QPSK                  | 1                        | 137                    | 23.47               |
| 100             | QPSK                  | 1                        | 271                    | 23.20               |
| 100             | QPSK                  | 135                      | 0                      | 22.96               |
| 100             | QPSK                  | 135                      | 69                     | 23.59               |
| 100             | QPSK                  | 135                      | 138                    | 22.92               |
| 100             | QPSK                  | 270                      | 0                      | 22.84               |
| 100             | 16QAM                 | 1                        | 1                      | 22.84               |
| 100             | 64QAM                 | 1                        | 1                      | 21.30               |
| 100             | 256QAM                | 1                        | 1                      | 19.34               |
| Channel         | 633000                | 633332                   | 633666                 |                     |
| Frequency (MHz) | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 23.68               |
| 90              | PI/2 BPSK             | 1                        | 1                      | 23.69               |
| 90              | PI/2 BPSK             | 1                        | 1                      | 23.70               |
| Channel         | 632668                | 633332                   | 634000                 |                     |
| Frequency (MHz) | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 23.52               |
| 80              | PI/2 BPSK             | 1                        | 1                      | 23.53               |
| 80              | PI/2 BPSK             | 1                        | 1                      | 23.47               |
| Channel         | 632334                | 633332                   | 634332                 |                     |
| Frequency (MHz) | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 23.52               |
| 70              | PI/2 BPSK             | 1                        | 1                      | 23.55               |
| 70              | PI/2 BPSK             | 1                        | 1                      | 23.50               |
| Channel         | 632000                | 633332                   | 634666                 |                     |
| Frequency (MHz) | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 23.44               |
| 60              | PI/2 BPSK             | 1                        | 1                      | 23.50               |
| 60              | PI/2 BPSK             | 1                        | 1                      | 23.57               |
| Channel         | 631668                | 633332                   | 635000                 |                     |
| Frequency (MHz) | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 23.42               |
| 50              | PI/2 BPSK             | 1                        | 1                      | 23.53               |
| 50              | PI/2 BPSK             | 1                        | 1                      | 23.52               |
| Channel         | 631334                | 633332                   | 635332                 |                     |
| Frequency (MHz) | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 23.47               |
| 40              | PI/2 BPSK             | 1                        | 1                      | 23.43               |
| 40              | PI/2 BPSK             | 1                        | 1                      | 23.52               |
| Channel         | 631000                | 633332                   | 635666                 |                     |
| Frequency (MHz) | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 23.52               |
| 30              | PI/2 BPSK             | 1                        | 1                      | 23.56               |
| 30              | PI/2 BPSK             | 1                        | 1                      | 23.46               |
| Channel         | 630668                | 633332                   | 636000                 |                     |
| Frequency (MHz) | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 23.50               |
| 20              | PI/2 BPSK             | 1                        | 1                      | 23.52               |
| 20              | PI/2 BPSK             | 1                        | 1                      | 23.47               |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 633332                   |                        |                     |
| Frequency (MHz) |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 4.73                |
| 100             | PI/2 BPSK             | 1                        | 137                    | 4.66                |
| 100             | PI/2 BPSK             | 1                        | 271                    | 4.60                |
| 100             | PI/2 BPSK             | 135                      | 0                      | 4.69                |
| 100             | PI/2 BPSK             | 135                      | 69                     | 4.72                |
| 100             | PI/2 BPSK             | 135                      | 138                    | 4.71                |
| 100             | PI/2 BPSK             | 270                      | 0                      | 4.64                |
| 100             | QPSK                  | 1                        | 1                      | 4.69                |
| 100             | QPSK                  | 1                        | 137                    | 4.63                |
| 100             | QPSK                  | 1                        | 271                    | 4.66                |
| 100             | QPSK                  | 135                      | 0                      | 4.67                |
| 100             | QPSK                  | 135                      | 69                     | 4.68                |
| 100             | QPSK                  | 135                      | 138                    | 4.61                |
| 100             | QPSK                  | 270                      | 0                      | 4.63                |
| 100             | 16QAM                 | 1                        | 1                      | 4.69                |
| 100             | 64QAM                 | 1                        | 1                      | 4.62                |
| 100             | 256QAM                | 1                        | 1                      | 4.66                |
| Channel         | 633000                | 633332                   | 633666                 |                     |
| Frequency (MHz) | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 4.61                |
| 4.58            |                       | 4.60                     |                        |                     |
| Channel         | 632668                | 633332                   | 634000                 |                     |
| Frequency (MHz) | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 4.50                |
| 4.38            |                       | 4.44                     |                        |                     |
| Channel         | 632334                | 633332                   | 634332                 |                     |
| Frequency (MHz) | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 4.44                |
| 4.35            |                       | 4.39                     |                        |                     |
| Channel         | 632000                | 633332                   | 634666                 |                     |
| Frequency (MHz) | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 4.42                |
| 4.44            |                       | 4.41                     |                        |                     |
| Channel         | 631668                | 633332                   | 635000                 |                     |
| Frequency (MHz) | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 4.50                |
| 4.36            |                       | 4.48                     |                        |                     |
| Channel         | 631334                | 633332                   | 635332                 |                     |
| Frequency (MHz) | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 4.42                |
| 4.37            |                       | 4.49                     |                        |                     |
| Channel         | 631000                | 633332                   | 635666                 |                     |
| Frequency (MHz) | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 4.40                |
| 4.41            |                       | 4.49                     |                        |                     |
| Channel         | 630668                | 633332                   | 636000                 |                     |
| Frequency (MHz) | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 4.39                |
| 4.36            |                       | 4.42                     |                        |                     |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 633332                   |                        |                     |
| Frequency (MHz) |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 12.43               |
| 100             | PI/2 BPSK             | 1                        | 137                    | 12.36               |
| 100             | PI/2 BPSK             | 1                        | 271                    | 12.30               |
| 100             | PI/2 BPSK             | 135                      | 0                      | 12.39               |
| 100             | PI/2 BPSK             | 135                      | 69                     | 12.42               |
| 100             | PI/2 BPSK             | 135                      | 138                    | 12.41               |
| 100             | PI/2 BPSK             | 270                      | 0                      | 12.34               |
| 100             | QPSK                  | 1                        | 1                      | 12.39               |
| 100             | QPSK                  | 1                        | 137                    | 12.33               |
| 100             | QPSK                  | 1                        | 271                    | 12.36               |
| 100             | QPSK                  | 135                      | 0                      | 12.37               |
| 100             | QPSK                  | 135                      | 69                     | 12.38               |
| 100             | QPSK                  | 135                      | 138                    | 12.31               |
| 100             | QPSK                  | 270                      | 0                      | 12.33               |
| 100             | 16QAM                 | 1                        | 1                      | 12.39               |
| 100             | 64QAM                 | 1                        | 1                      | 12.32               |
| 100             | 256QAM                | 1                        | 1                      | 12.36               |
| Channel         | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 12.29               |
| Channel         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 12.28               |
| Channel         | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 12.14               |
| Channel         | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 12.14               |
| Channel         | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 12.16               |
| Channel         | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 12.09               |
| Channel         | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 12.16               |
| Channel         | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 12.22               |



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| Channel         | Frequency (MHz) | BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------|----------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                 |          |            |         |           |                       | 650000                   |                        |                     |
| Frequency (MHz) |                 |          |            |         |           |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK       | 1        | 1          |         |           |                       | 20.33                    |                        | 21.7                |
| 100             | PI/2 BPSK       | 1        | 137        |         |           |                       | 20.19                    |                        |                     |
| 100             | PI/2 BPSK       | 1        | 271        |         |           |                       | 20.09                    |                        |                     |
| 100             | PI/2 BPSK       | 135      | 0          |         |           |                       | 20.24                    |                        | 21.7                |
| 100             | PI/2 BPSK       | 135      | 69         |         |           |                       | 20.25                    |                        | 21.7                |
| 100             | PI/2 BPSK       | 135      | 138        |         |           |                       | 20.06                    |                        | 21.7                |
| 100             | PI/2 BPSK       | 270      | 0          |         |           |                       | 20.22                    |                        |                     |
| 100             | QPSK            | 1        | 1          |         |           |                       | 20.28                    |                        | 21.7                |
| 100             | QPSK            | 1        | 137        |         |           |                       | 20.17                    |                        |                     |
| 100             | QPSK            | 1        | 271        |         |           |                       | 20.19                    |                        |                     |
| 100             | QPSK            | 135      | 0          |         |           |                       | 20.27                    |                        | 21.7                |
| 100             | QPSK            | 135      | 69         |         |           |                       | 20.14                    |                        |                     |
| 100             | QPSK            | 135      | 138        |         |           |                       | 20.10                    |                        |                     |
| 100             | QPSK            | 270      | 0          |         |           |                       | 20.16                    |                        | 21.7                |
| 100             | 16QAM           | 1        | 1          |         |           |                       | 20.32                    |                        | 21.7                |
| 100             | 64QAM           | 1        | 1          |         |           |                       | 20.30                    |                        | 21.7                |
| 100             | 256QAM          | 1        | 1          |         |           |                       | 19.98                    |                        | 21.7                |
| Channel         |                 |          |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit       |
| Frequency (MHz) |                 |          |            |         |           | 3745.02               | 3750                     | 3754.98                | (dBm)               |
| 90              | PI/2 BPSK       | 1        | 1          |         |           | 20.32                 | 20.32                    | 20.32                  | 21.7                |
| Channel         |                 |          |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit       |
| Frequency (MHz) |                 |          |            |         |           | 3740.01               | 3750                     | 3759.99                | (dBm)               |
| 80              | PI/2 BPSK       | 1        | 1          |         |           | 20.32                 | 20.32                    | 20.31                  | 21.7                |
| Channel         |                 |          |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit       |
| Frequency (MHz) |                 |          |            |         |           | 3735                  | 3750                     | 3765                   | (dBm)               |
| 70              | PI/2 BPSK       | 1        | 1          |         |           | 20.32                 | 20.31                    | 20.32                  | 21.7                |
| Channel         |                 |          |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit       |
| Frequency (MHz) |                 |          |            |         |           | 3730.02               | 3750                     | 3769.98                | (dBm)               |
| 60              | PI/2 BPSK       | 1        | 1          |         |           | 20.32                 | 20.32                    | 20.31                  | 21.7                |
| Channel         |                 |          |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit       |
| Frequency (MHz) |                 |          |            |         |           | 3725.01               | 3750                     | 3774.99                | (dBm)               |
| 50              | PI/2 BPSK       | 1        | 1          |         |           | 20.31                 | 20.31                    | 20.31                  | 21.7                |
| Channel         |                 |          |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       |
| Frequency (MHz) |                 |          |            |         |           | 3720                  | 3750                     | 3780                   | (dBm)               |
| 40              | PI/2 BPSK       | 1        | 1          |         |           | 20.31                 | 20.30                    | 20.30                  | 21.7                |
| Channel         |                 |          |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit       |
| Frequency (MHz) |                 |          |            |         |           | 3715.02               | 3750.00                  | 3784.98                | (dBm)               |
| 30              | PI/2 BPSK       | 1        | 1          |         |           | 20.31                 | 20.30                    | 20.31                  | 21.7                |
| Channel         |                 |          |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit       |
| Frequency (MHz) |                 |          |            |         |           | 3710.01               | 3750                     | 3789.99                | (dBm)               |
| 20              | PI/2 BPSK       | 1        | 1          |         |           | 20.30                 | 20.29                    | 20.30                  | 21.7                |





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| Channel         | BW [MHz]  | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |           |            |         |           |                       | 650000                   |                        |                     |
| Frequency (MHz) |           |            |         |           |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK | 1          | 1       |           |                       | 9.67                     |                        | 10.6                |
| 100             | PI/2 BPSK | 1          | 137     |           |                       | 9.53                     |                        |                     |
| 100             | PI/2 BPSK | 1          | 271     |           |                       | 9.48                     |                        |                     |
| 100             | PI/2 BPSK | 135        | 0       |           |                       | 9.56                     |                        | 10.6                |
| 100             | PI/2 BPSK | 135        | 69      |           |                       | 9.62                     |                        | 10.6                |
| 100             | PI/2 BPSK | 135        | 138     |           |                       | 9.59                     |                        | 10.6                |
| 100             | PI/2 BPSK | 270        | 0       |           |                       | 9.53                     |                        |                     |
| 100             | QPSK      | 1          | 1       |           |                       | 9.54                     |                        | 10.6                |
| 100             | QPSK      | 1          | 137     |           |                       | 9.46                     |                        |                     |
| 100             | QPSK      | 1          | 271     |           |                       | 9.47                     |                        |                     |
| 100             | QPSK      | 135        | 0       |           |                       | 9.39                     |                        | 10.6                |
| 100             | QPSK      | 135        | 69      |           |                       | 9.54                     |                        |                     |
| 100             | QPSK      | 135        | 138     |           |                       | 9.43                     |                        |                     |
| 100             | QPSK      | 270        | 0       |           |                       | 9.44                     |                        | 10.6                |
| 100             | 16QAM     | 1          | 1       |           |                       | 9.55                     |                        | 10.6                |
| 100             | 64QAM     | 1          | 1       |           |                       | 9.53                     |                        | 10.6                |
| 100             | 256QAM    | 1          | 1       |           |                       | 9.43                     |                        | 10.6                |
| Channel         |           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |
| Frequency (MHz) |           |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK | 1          | 1       |           | 9.65                  | 9.66                     | 9.62                   | 10.6                |
| Channel         |           |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |
| Frequency (MHz) |           |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK | 1          | 1       |           | 9.46                  | 9.48                     | 9.43                   | 10.6                |
| Channel         |           |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) |
| Frequency (MHz) |           |            |         |           | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK | 1          | 1       |           | 9.53                  | 9.53                     | 9.46                   | 10.6                |
| Channel         |           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) |
| Frequency (MHz) |           |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK | 1          | 1       |           | 9.47                  | 9.49                     | 9.48                   | 10.6                |
| Channel         |           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) |
| Frequency (MHz) |           |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK | 1          | 1       |           | 9.54                  | 9.48                     | 9.44                   | 10.6                |
| Channel         |           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |
| Frequency (MHz) |           |            |         |           | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK | 1          | 1       |           | 9.50                  | 9.50                     | 9.44                   | 10.6                |
| Channel         |           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |
| Frequency (MHz) |           |            |         |           | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK | 1          | 1       |           | 9.54                  | 9.52                     | 9.46                   | 10.6                |
| Channel         |           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) |
| Frequency (MHz) |           |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK | 1          | 1       |           | 9.49                  | 9.56                     | 9.51                   | 10.6                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 650000                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 9.33                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 9.25                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 9.21                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 9.26                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 9.29                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 9.20                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 9.25                     |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 9.30                     |                        | 10.5                |
| 100             | QPSK       | 1       | 137       |                       | 9.22                     |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 9.25                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 9.24                     |                        | 10.5                |
| 100             | QPSK       | 135     | 69        |                       | 9.27                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 9.22                     |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 9.21                     |                        | 10.5                |
| 100             | 16QAM      | 1       | 1         |                       | 9.18                     |                        | 10.5                |
| 100             | 64QAM      | 1       | 1         |                       | 9.19                     |                        | 10.5                |
| 100             | 256QAM     | 1       | 1         |                       | 9.22                     |                        | 10.5                |
| Channel         |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 9.28                  | 9.30                     | 9.27                   | 10.5                |
| Channel         |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 9.10                  | 9.14                     | 9.13                   | 10.5                |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 9.17                  | 9.20                     | 9.07                   | 10.5                |
| Channel         |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 9.18                  | 9.13                     | 9.11                   | 10.5                |
| Channel         |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 9.11                  | 9.16                     | 9.10                   | 10.5                |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 9.17                  | 9.17                     | 9.12                   | 10.5                |
| Channel         |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 9.11                  | 9.12                     | 9.11                   | 10.5                |
| Channel         |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 9.12                  | 9.16                     | 9.08                   | 10.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 650000                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 11.31                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 11.20                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 11.14                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 11.27                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 11.28                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 11.16                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 11.21                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 11.28                    |                        |                     |
| 100             | QPSK       | 1       | 137       |                       | 11.16                    |                        | 12.0                |
| 100             | QPSK       | 1       | 271       |                       | 11.26                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 11.24                    |                        |                     |
| 100             | QPSK       | 135     | 69        |                       | 11.28                    |                        | 12.0                |
| 100             | QPSK       | 135     | 138       |                       | 11.20                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 11.14                    |                        |                     |
| 100             | 16QAM      | 1       | 1         |                       | 11.27                    |                        | 12.0                |
| 100             | 64QAM      | 1       | 1         |                       | 11.18                    |                        | 12.0                |
| 100             | 256QAM     | 1       | 1         |                       | 11.22                    |                        | 12.0                |
| Channel         |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 11.23                 | 11.26                    | 11.21                  | 12.0                |
| Channel         |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 11.06                 | 11.10                    | 11.04                  | 12.0                |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 11.08                 | 11.12                    | 11.08                  | 12.0                |
| Channel         |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 11.05                 | 11.08                    | 11.08                  | 12.0                |
| Channel         |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 11.05                 | 11.13                    | 11.08                  | 12.0                |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 11.09                 | 11.08                    | 11.08                  | 12.0                |
| Channel         |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 11.09                 | 11.12                    | 11.04                  | 12.0                |
| Channel         |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 11.10                 | 11.12                    | 11.07                  | 12.0                |



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| Channel         | BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|----------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |          |            |         |           |                       | 650000                   |                        |                     |
| Frequency (MHz) |          |            |         |           |                       | 3750                     |                        |                     |
| 100             |          | PI/2 BPSK  | 1       | 1         |                       | 20.72                    |                        | 21.5                |
| 100             |          | PI/2 BPSK  | 1       | 137       |                       | 20.64                    |                        |                     |
| 100             |          | PI/2 BPSK  | 1       | 271       |                       | 20.59                    |                        | 21.5                |
| 100             |          | PI/2 BPSK  | 135     | 0         |                       | 20.68                    |                        |                     |
| 100             |          | PI/2 BPSK  | 135     | 69        |                       | 20.65                    |                        | 21.5                |
| 100             |          | PI/2 BPSK  | 135     | 138       |                       | 20.61                    |                        |                     |
| 100             |          | PI/2 BPSK  | 270     | 0         |                       | 20.61                    |                        | 21.5                |
| 100             |          | QPSK       | 1       | 1         |                       | 20.64                    |                        |                     |
| 100             |          | QPSK       | 1       | 137       |                       | 20.60                    |                        | 21.5                |
| 100             |          | QPSK       | 1       | 271       |                       | 20.53                    |                        |                     |
| 100             |          | QPSK       | 135     | 0         |                       | 20.61                    |                        | 21.5                |
| 100             |          | QPSK       | 135     | 69        |                       | 20.52                    |                        | 21.5                |
| 100             |          | QPSK       | 135     | 138       |                       | 20.57                    |                        |                     |
| 100             |          | QPSK       | 270     | 0         |                       | 20.60                    |                        | 21.5                |
| 100             |          | 16QAM      | 1       | 1         |                       | 20.54                    |                        | 21.5                |
| 100             |          | 64QAM      | 1       | 1         |                       | 20.56                    |                        | 21.5                |
| 100             |          | 256QAM     | 1       | 1         |                       | 19.15                    |                        | 20.0                |
| Channel         |          |            |         |           | 649668                | 650000                   | 650332                 |                     |
| Frequency (MHz) |          |            |         |           | 3745.02               | 3750                     | 3754.98                | Tune-up limit (dBm) |
| 90              |          | PI/2 BPSK  | 1       | 1         | 20.58                 | 20.54                    | 20.56                  | 21.5                |
| Channel         |          |            |         |           | 649334                | 650000                   | 650666                 |                     |
| Frequency (MHz) |          |            |         |           | 3740.01               | 3750                     | 3759.99                | Tune-up limit (dBm) |
| 80              |          | PI/2 BPSK  | 1       | 1         | 20.40                 | 20.35                    | 20.40                  | 21.5                |
| Channel         |          |            |         |           | 649000                | 650000                   | 651000                 |                     |
| Frequency (MHz) |          |            |         |           | 3735                  | 3750                     | 3765                   | Tune-up limit (dBm) |
| 70              |          | PI/2 BPSK  | 1       | 1         | 20.44                 | 20.33                    | 20.35                  | 21.5                |
| Channel         |          |            |         |           | 648668                | 650000                   | 651332                 |                     |
| Frequency (MHz) |          |            |         |           | 3730.02               | 3750                     | 3769.98                | Tune-up limit (dBm) |
| 60              |          | PI/2 BPSK  | 1       | 1         | 20.37                 | 20.41                    | 20.36                  | 21.5                |
| Channel         |          |            |         |           | 648334                | 650000                   | 651666                 |                     |
| Frequency (MHz) |          |            |         |           | 3725.01               | 3750                     | 3774.99                | Tune-up limit (dBm) |
| 50              |          | PI/2 BPSK  | 1       | 1         | 20.46                 | 20.37                    | 20.44                  | 21.5                |
| Channel         |          |            |         |           | 648000                | 650000                   | 652000                 |                     |
| Frequency (MHz) |          |            |         |           | 3720                  | 3750                     | 3780                   | Tune-up limit (dBm) |
| 40              |          | PI/2 BPSK  | 1       | 1         | 20.45                 | 20.31                    | 20.36                  | 21.5                |
| Channel         |          |            |         |           | 647668                | 650000                   | 652332                 |                     |
| Frequency (MHz) |          |            |         |           | 3715.02               | 3750.00                  | 3784.98                | Tune-up limit (dBm) |
| 30              |          | PI/2 BPSK  | 1       | 1         | 20.44                 | 20.32                    | 20.34                  | 21.5                |
| Channel         |          |            |         |           | 647334                | 650000                   | 652666                 |                     |
| Frequency (MHz) |          |            |         |           | 3710.01               | 3750                     | 3789.99                | Tune-up limit (dBm) |
| 20              |          | PI/2 BPSK  | 1       | 1         | 20.41                 | 20.41                    | 20.40                  | 21.5                |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 650000                   |                        |                     |
| Frequency (MHz) |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 4.52                |
| 100             | PI/2 BPSK             | 1                        | 137                    | 4.50                |
| 100             | PI/2 BPSK             | 1                        | 271                    | 4.50                |
| 100             | PI/2 BPSK             | 135                      | 0                      | 4.48                |
| 100             | PI/2 BPSK             | 135                      | 69                     | 4.49                |
| 100             | PI/2 BPSK             | 135                      | 138                    | 4.45                |
| 100             | PI/2 BPSK             | 270                      | 0                      | 4.46                |
| 100             | QPSK                  | 1                        | 1                      | 4.46                |
| 100             | QPSK                  | 1                        | 137                    | 4.41                |
| 100             | QPSK                  | 1                        | 271                    | 4.39                |
| 100             | QPSK                  | 135                      | 0                      | 4.51                |
| 100             | QPSK                  | 135                      | 69                     | 4.48                |
| 100             | QPSK                  | 135                      | 138                    | 4.42                |
| 100             | QPSK                  | 270                      | 0                      | 4.47                |
| 100             | 16QAM                 | 1                        | 1                      | 4.49                |
| 100             | 64QAM                 | 1                        | 1                      | 4.50                |
| 100             | 256QAM                | 1                        | 1                      | 4.48                |
| Channel         | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 4.46                |
| Channel         | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 4.48                |
| Channel         | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 4.47                |
| Channel         | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 4.51                |
| Channel         | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 4.51                |
| Channel         | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 4.42                |
| Channel         | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 4.48                |
| Channel         | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 4.42                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 650000                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 12.22                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 12.20                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 12.20                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 12.18                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 12.19                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 12.15                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 12.16                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 12.16                    |                        | 12.7                |
| 100             | QPSK       | 1       | 137       |                       | 12.11                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 12.09                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 12.21                    |                        | 12.7                |
| 100             | QPSK       | 135     | 69        |                       | 12.18                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 12.12                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 12.17                    |                        | 12.7                |
| 100             | 16QAM      | 1       | 1         |                       | 12.19                    |                        | 12.7                |
| 100             | 64QAM      | 1       | 1         |                       | 12.20                    |                        | 12.7                |
| 100             | 256QAM     | 1       | 1         |                       | 12.18                    |                        | 12.7                |
| Channel         |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.13                    | 12.15                  | 12.7                |
| Channel         |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.09                 | 12.18                    | 12.10                  | 12.7                |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.20                    | 12.19                  | 12.7                |
| Channel         |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.13                    | 12.12                  | 12.7                |
| Channel         |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.13                 | 12.12                    | 12.13                  | 12.7                |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.14                 | 12.20                    | 12.19                  | 12.7                |
| Channel         |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.12                 | 12.12                    | 12.18                  | 12.7                |
| Channel         |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.10                 | 12.19                    | 12.18                  | 12.7                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 650000                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 20.33                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 20.19                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 20.09                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 20.24                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 20.25                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 20.06                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 20.22                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 20.28                    |                        | 21.7                |
| 100             | QPSK       | 1       | 137       |                       | 20.17                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 20.19                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 20.27                    |                        | 21.7                |
| 100             | QPSK       | 135     | 69        |                       | 20.14                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 20.10                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 20.16                    |                        | 21.7                |
| 100             | 16QAM      | 1       | 1         |                       | 20.32                    |                        | 21.7                |
| 100             | 64QAM      | 1       | 1         |                       | 20.30                    |                        | 21.7                |
| 100             | 256QAM     | 1       | 1         |                       | 19.98                    |                        | 21.7                |
| Channel         |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 20.32                 | 20.32                    | 20.32                  | 21.7                |
| Channel         |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 20.32                 | 20.32                    | 20.31                  | 21.7                |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 20.32                 | 20.31                    | 20.32                  | 21.7                |
| Channel         |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 20.32                 | 20.32                    | 20.31                  | 21.7                |
| Channel         |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 20.31                 | 20.31                    | 20.31                  | 21.7                |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 20.31                 | 20.30                    | 20.30                  | 21.7                |
| Channel         |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 20.31                 | 20.30                    | 20.31                  | 21.7                |
| Channel         |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 20.30                 | 20.29                    | 20.30                  | 21.7                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 650000                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 9.67                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 9.53                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 9.48                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 9.56                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 9.62                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 9.59                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 9.53                     |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 9.54                     |                        | 10.6                |
| 100             | QPSK       | 1       | 137       |                       | 9.46                     |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 9.47                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 9.39                     |                        | 10.6                |
| 100             | QPSK       | 135     | 69        |                       | 9.54                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 9.43                     |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 9.44                     |                        | 10.6                |
| 100             | 16QAM      | 1       | 1         |                       | 9.55                     |                        | 10.6                |
| 100             | 64QAM      | 1       | 1         |                       | 9.53                     |                        | 10.6                |
| 100             | 256QAM     | 1       | 1         |                       | 9.43                     |                        | 10.6                |
| Channel         |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 9.65                  | 9.66                     | 9.62                   | 10.6                |
| Channel         |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 9.46                  | 9.48                     | 9.43                   | 10.6                |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 9.53                  | 9.53                     | 9.46                   | 10.6                |
| Channel         |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 9.47                  | 9.49                     | 9.48                   | 10.6                |
| Channel         |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 9.54                  | 9.48                     | 9.44                   | 10.6                |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 9.50                  | 9.50                     | 9.44                   | 10.6                |
| Channel         |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 9.54                  | 9.52                     | 9.46                   | 10.6                |
| Channel         |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 9.49                  | 9.56                     | 9.51                   | 10.6                |





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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 650000                   |                        |                     |
| Frequency (MHz) |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 9.33                |
| 100             | PI/2 BPSK             | 1                        | 137                    | 9.25                |
| 100             | PI/2 BPSK             | 1                        | 271                    | 9.21                |
| 100             | PI/2 BPSK             | 135                      | 0                      | 9.26                |
| 100             | PI/2 BPSK             | 135                      | 69                     | 9.29                |
| 100             | PI/2 BPSK             | 135                      | 138                    | 9.20                |
| 100             | PI/2 BPSK             | 270                      | 0                      | 9.25                |
| 100             | QPSK                  | 1                        | 1                      | 9.30                |
| 100             | QPSK                  | 1                        | 137                    | 9.22                |
| 100             | QPSK                  | 1                        | 271                    | 9.25                |
| 100             | QPSK                  | 135                      | 0                      | 9.24                |
| 100             | QPSK                  | 135                      | 69                     | 9.27                |
| 100             | QPSK                  | 135                      | 138                    | 9.22                |
| 100             | QPSK                  | 270                      | 0                      | 9.21                |
| 100             | 16QAM                 | 1                        | 1                      | 9.18                |
| 100             | 64QAM                 | 1                        | 1                      | 9.19                |
| 100             | 256QAM                | 1                        | 1                      | 9.22                |
| Channel         | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 9.28                |
| Channel         | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 9.10                |
| Channel         | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 9.17                |
| Channel         | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 9.18                |
| Channel         | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 9.11                |
| Channel         | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 9.17                |
| Channel         | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 9.11                |
| Channel         | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 9.12                |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 650000                   |                        |                     |
| Frequency (MHz) |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 11.31               |
| 100             | PI/2 BPSK             | 1                        | 137                    | 11.20               |
| 100             | PI/2 BPSK             | 1                        | 271                    | 11.14               |
| 100             | PI/2 BPSK             | 135                      | 0                      | 11.27               |
| 100             | PI/2 BPSK             | 135                      | 69                     | 11.28               |
| 100             | PI/2 BPSK             | 135                      | 138                    | 11.16               |
| 100             | PI/2 BPSK             | 270                      | 0                      | 11.21               |
| 100             | QPSK                  | 1                        | 1                      | 11.28               |
| 100             | QPSK                  | 1                        | 137                    | 11.16               |
| 100             | QPSK                  | 1                        | 271                    | 11.26               |
| 100             | QPSK                  | 135                      | 0                      | 11.24               |
| 100             | QPSK                  | 135                      | 69                     | 11.28               |
| 100             | QPSK                  | 135                      | 138                    | 11.20               |
| 100             | QPSK                  | 270                      | 0                      | 11.14               |
| 100             | 16QAM                 | 1                        | 1                      | 11.27               |
| 100             | 64QAM                 | 1                        | 1                      | 11.18               |
| 100             | 256QAM                | 1                        | 1                      | 11.22               |
| Channel         | 649668                | 650000                   | 650332                 |                     |
| Frequency (MHz) | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 11.23               |
| Channel         | 649334                | 650000                   | 650666                 |                     |
| Frequency (MHz) | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 11.06               |
| Channel         | 649000                | 650000                   | 651000                 |                     |
| Frequency (MHz) | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 11.08               |
| Channel         | 648668                | 650000                   | 651332                 |                     |
| Frequency (MHz) | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 11.05               |
| Channel         | 648334                | 650000                   | 651666                 |                     |
| Frequency (MHz) | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 11.05               |
| Channel         | 648000                | 650000                   | 652000                 |                     |
| Frequency (MHz) | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 11.09               |
| Channel         | 647668                | 650000                   | 652332                 |                     |
| Frequency (MHz) | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 11.09               |
| Channel         | 647334                | 650000                   | 652666                 |                     |
| Frequency (MHz) | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 11.10               |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 650000                   |                        |                     |
| Frequency (MHz) |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 23.27               |
| 100             | PI/2 BPSK             | 1                        | 137                    | 22.64               |
| 100             | PI/2 BPSK             | 1                        | 271                    | 22.52               |
| 100             | PI/2 BPSK             | 135                      | 0                      | 22.44               |
| 100             | PI/2 BPSK             | 135                      | 69                     | 22.60               |
| 100             | PI/2 BPSK             | 135                      | 138                    | 22.15               |
| 100             | PI/2 BPSK             | 270                      | 0                      | 22.29               |
| 100             | QPSK                  | 1                        | 1                      | 22.98               |
| 100             | QPSK                  | 1                        | 137                    | 22.26               |
| 100             | QPSK                  | 1                        | 271                    | 22.25               |
| 100             | QPSK                  | 135                      | 0                      | 22.31               |
| 100             | QPSK                  | 135                      | 69                     | 22.43               |
| 100             | QPSK                  | 135                      | 138                    | 22.03               |
| 100             | QPSK                  | 270                      | 0                      | 21.73               |
| 100             | 16QAM                 | 1                        | 1                      | 22.26               |
| 100             | 64QAM                 | 1                        | 1                      | 21.18               |
| 100             | 256QAM                | 1                        | 1                      | 19.17               |
| Channel         | 649668                | 650000                   | 650332                 |                     |
| Frequency (MHz) | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 23.04               |
| 23.13           |                       |                          |                        | 23.05               |
| Channel         | 649334                | 650000                   | 650666                 |                     |
| Frequency (MHz) | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 22.85               |
| 22.91           |                       |                          |                        | 22.91               |
| Channel         | 649000                | 650000                   | 651000                 |                     |
| Frequency (MHz) | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 22.91               |
| 23.01           |                       |                          |                        | 22.82               |
| Channel         | 648668                | 650000                   | 651332                 |                     |
| Frequency (MHz) | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 22.84               |
| 22.91           |                       |                          |                        | 22.92               |
| Channel         | 648334                | 650000                   | 651666                 |                     |
| Frequency (MHz) | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 22.82               |
| 22.91           |                       |                          |                        | 22.89               |
| Channel         | 648000                | 650000                   | 652000                 |                     |
| Frequency (MHz) | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 22.91               |
| 22.91           |                       |                          |                        | 22.90               |
| Channel         | 647668                | 650000                   | 652332                 |                     |
| Frequency (MHz) | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 22.88               |
| 22.91           |                       |                          |                        | 22.82               |
| Channel         | 647334                | 650000                   | 652666                 |                     |
| Frequency (MHz) | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 22.77               |
| 22.77           |                       |                          |                        | 22.69               |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 650000                   |                        |                     |
| Frequency (MHz) |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 4.52                |
| 100             | PI/2 BPSK             | 1                        | 137                    | 4.50                |
| 100             | PI/2 BPSK             | 1                        | 271                    | 4.50                |
| 100             | PI/2 BPSK             | 135                      | 0                      | 4.48                |
| 100             | PI/2 BPSK             | 135                      | 69                     | 4.49                |
| 100             | PI/2 BPSK             | 135                      | 138                    | 4.45                |
| 100             | PI/2 BPSK             | 270                      | 0                      | 4.46                |
| 100             | QPSK                  | 1                        | 1                      | 4.46                |
| 100             | QPSK                  | 1                        | 137                    | 4.41                |
| 100             | QPSK                  | 1                        | 271                    | 4.39                |
| 100             | QPSK                  | 135                      | 0                      | 4.51                |
| 100             | QPSK                  | 135                      | 69                     | 4.48                |
| 100             | QPSK                  | 135                      | 138                    | 4.42                |
| 100             | QPSK                  | 270                      | 0                      | 4.47                |
| 100             | 16QAM                 | 1                        | 1                      | 4.49                |
| 100             | 64QAM                 | 1                        | 1                      | 4.50                |
| 100             | 256QAM                | 1                        | 1                      | 4.48                |
| Channel         | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 4.46                |
| Channel         | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 4.48                |
| Channel         | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 4.47                |
| Channel         | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 4.51                |
| Channel         | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 4.51                |
| Channel         | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 4.42                |
| Channel         | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 4.48                |
| Channel         | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 4.42                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 650000                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3750                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 12.22                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 12.20                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 12.20                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 12.18                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 12.19                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 12.15                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 12.16                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 12.16                    |                        | 12.7                |
| 100             | QPSK       | 1       | 137       |                       | 12.11                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 12.09                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 12.21                    |                        | 12.7                |
| 100             | QPSK       | 135     | 69        |                       | 12.18                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 12.12                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 12.17                    |                        | 12.7                |
| 100             | 16QAM      | 1       | 1         |                       | 12.19                    |                        | 12.7                |
| 100             | 64QAM      | 1       | 1         |                       | 12.20                    |                        | 12.7                |
| 100             | 256QAM     | 1       | 1         |                       | 12.18                    |                        | 12.7                |
| Channel         |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.13                    | 12.15                  | 12.7                |
| Channel         |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.09                 | 12.18                    | 12.10                  | 12.7                |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.20                    | 12.19                  | 12.7                |
| Channel         |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.18                 | 12.13                    | 12.12                  | 12.7                |
| Channel         |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.13                 | 12.12                    | 12.13                  | 12.7                |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.14                 | 12.20                    | 12.19                  | 12.7                |
| Channel         |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.12                 | 12.12                    | 12.18                  | 12.7                |
| Channel         |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.10                 | 12.19                    | 12.18                  | 12.7                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 20.24                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 20.14                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 20.22                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 20.21                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 20.23                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 20.20                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 20.18                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 20.18                    |                        | 21.7                |
| 100             | QPSK       | 1       | 137       |                       | 20.20                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 20.21                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 20.16                    |                        | 21.7                |
| 100             | QPSK       | 135     | 69        |                       | 20.22                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 20.22                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 20.18                    |                        | 21.7                |
| 100             | 16QAM      | 1       | 1         |                       | 20.12                    |                        | 21.7                |
| 100             | 64QAM      | 1       | 1         |                       | 20.20                    |                        | 21.7                |
| 100             | 256QAM     | 1       | 1         |                       | 19.98                    |                        | 21.7                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 20.20                 | 20.21                    | 20.18                  | 21.7                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 20.19                 | 20.19                    | 20.17                  | 21.7                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 20.18                 | 20.19                    | 20.17                  | 21.7                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 20.18                 | 20.20                    | 20.16                  | 21.7                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 20.18                 | 20.20                    | 20.16                  | 21.7                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 20.18                 | 20.20                    | 20.16                  | 21.7                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 20.19                 | 20.20                    | 20.16                  | 21.7                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 20.19                 | 20.19                    | 20.17                  | 21.7                |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 633332                   |                        |                     |
| Frequency (MHz) |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 9.67                |
| 100             | PI/2 BPSK             | 1                        | 137                    | 9.59                |
| 100             | PI/2 BPSK             | 1                        | 271                    | 9.51                |
| 100             | PI/2 BPSK             | 135                      | 0                      | 9.56                |
| 100             | PI/2 BPSK             | 135                      | 69                     | 9.64                |
| 100             | PI/2 BPSK             | 135                      | 138                    | 9.57                |
| 100             | PI/2 BPSK             | 270                      | 0                      | 9.55                |
| 100             | QPSK                  | 1                        | 1                      | 9.50                |
| 100             | QPSK                  | 1                        | 137                    | 9.52                |
| 100             | QPSK                  | 1                        | 271                    | 9.39                |
| 100             | QPSK                  | 135                      | 0                      | 9.43                |
| 100             | QPSK                  | 135                      | 69                     | 9.52                |
| 100             | QPSK                  | 135                      | 138                    | 9.46                |
| 100             | QPSK                  | 270                      | 0                      | 9.37                |
| 100             | 16QAM                 | 1                        | 1                      | 9.51                |
| 100             | 64QAM                 | 1                        | 1                      | 9.49                |
| 100             | 256QAM                | 1                        | 1                      | 9.45                |
| Channel         | 633000                | 633332                   | 633666                 |                     |
| Frequency (MHz) | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 9.63                |
| 9.63            |                       | 9.65                     | 9.61                   |                     |
| Channel         | 632668                | 633332                   | 634000                 |                     |
| Frequency (MHz) | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 9.47                |
| 9.47            |                       | 9.50                     | 9.45                   |                     |
| Channel         | 632334                | 633332                   | 634332                 |                     |
| Frequency (MHz) | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 9.47                |
| 9.47            |                       | 9.49                     | 9.47                   |                     |
| Channel         | 632000                | 633332                   | 634666                 |                     |
| Frequency (MHz) | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 9.45                |
| 9.45            |                       | 9.49                     | 9.46                   |                     |
| Channel         | 631668                | 633332                   | 635000                 |                     |
| Frequency (MHz) | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 9.44                |
| 9.44            |                       | 9.48                     | 9.51                   |                     |
| Channel         | 631334                | 633332                   | 635332                 |                     |
| Frequency (MHz) | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 9.43                |
| 9.43            |                       | 9.51                     | 9.49                   |                     |
| Channel         | 631000                | 633332                   | 635666                 |                     |
| Frequency (MHz) | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 9.52                |
| 9.52            |                       | 9.51                     | 9.44                   |                     |
| Channel         | 630668                | 633332                   | 636000                 |                     |
| Frequency (MHz) | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 9.51                |
| 9.51            |                       | 9.45                     | 9.47                   |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 9.25                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 9.20                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 9.10                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 9.20                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 9.23                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 9.14                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 9.18                     |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 9.15                     |                        | 10.5                |
| 100             | QPSK       | 1       | 137       |                       | 9.13                     |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 9.12                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 9.15                     |                        | 10.5                |
| 100             | QPSK       | 135     | 69        |                       | 9.19                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 9.05                     |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 9.09                     |                        | 10.5                |
| 100             | 16QAM      | 1       | 1         |                       | 9.13                     |                        | 10.5                |
| 100             | 64QAM      | 1       | 1         |                       | 9.14                     |                        | 10.5                |
| 100             | 256QAM     | 1       | 1         |                       | 9.06                     |                        | 10.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 9.18                  | 9.21                     | 9.19                   | 10.5                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 9.04                  | 9.07                     | 9.04                   | 10.5                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 9.06                  | 9.09                     | 9.09                   | 10.5                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 9.07                  | 9.01                     | 9.05                   | 10.5                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 9.06                  | 9.04                     | 9.02                   | 10.5                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 9.07                  | 9.11                     | 9.09                   | 10.5                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 9.00                  | 9.06                     | 8.99                   | 10.5                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 9.05                  | 9.09                     | 9.07                   | 10.5                |





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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 11.26                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 11.19                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 11.11                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 11.17                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 11.20                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 11.07                    |                        | 12.0                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 11.14                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 11.26                    |                        | 12.0                |
| 100             | QPSK       | 1       | 137       |                       | 11.06                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 11.16                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 11.20                    |                        | 12.0                |
| 100             | QPSK       | 135     | 69        |                       | 11.24                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 11.19                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 11.06                    |                        | 12.0                |
| 100             | 16QAM      | 1       | 1         |                       | 11.18                    |                        | 12.0                |
| 100             | 64QAM      | 1       | 1         |                       | 11.13                    |                        | 12.0                |
| 100             | 256QAM     | 1       | 1         |                       | 11.19                    |                        | 12.0                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 11.10                 | 11.05                    | 10.06                  | 12.0                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 10.95                 | 10.89                    | 10.95                  | 12.0                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 10.95                 | 10.92                    | 10.97                  | 12.0                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 10.95                 | 10.90                    | 10.95                  | 12.0                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 10.95                 | 10.89                    | 10.97                  | 12.0                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 10.95                 | 10.90                    | 10.95                  | 12.0                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 10.97                 | 10.91                    | 10.95                  | 12.0                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 10.94                 | 10.89                    | 10.97                  | 12.0                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        | 21.5                |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 20.92                    |                        | 21.5                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 20.84                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 20.89                    |                        | 21.5                |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 20.78                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 20.85                    |                        | 21.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 20.81                    |                        |                     |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 20.76                    |                        | 21.5                |
| 100             | QPSK       | 1       | 1         |                       | 20.84                    |                        |                     |
| 100             | QPSK       | 1       | 137       |                       | 20.80                    |                        | 21.5                |
| 100             | QPSK       | 1       | 271       |                       | 20.73                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 20.81                    |                        | 21.5                |
| 100             | QPSK       | 135     | 69        |                       | 20.82                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 20.77                    |                        | 21.5                |
| 100             | QPSK       | 270     | 0         |                       | 20.80                    |                        |                     |
| 100             | 16QAM      | 1       | 1         |                       | 20.84                    |                        | 21.5                |
| 100             | 64QAM      | 1       | 1         |                       | 20.76                    |                        |                     |
| 100             | 256QAM     | 1       | 1         |                       | 19.20                    |                        | 20.0                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 20.68                 | 20.75                    | 20.71                  | 21.5                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 20.56                 | 20.63                    | 20.48                  | 21.5                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 20.51                 | 20.58                    | 20.55                  | 21.5                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 20.45                 | 20.54                    | 20.50                  | 21.5                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 20.54                 | 20.52                    | 20.57                  | 21.5                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 20.47                 | 20.53                    | 20.49                  | 21.5                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 20.45                 | 20.58                    | 20.52                  | 21.5                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 20.44                 | 20.53                    | 20.54                  | 21.5                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        | 5.0                 |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 4.92                     |                        | 5.0                 |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 4.75                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 4.59                     |                        | 5.0                 |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 4.74                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 4.77                     |                        | 5.0                 |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 4.54                     |                        |                     |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 4.76                     |                        | 5.0                 |
| 100             | QPSK       | 1       | 1         |                       | 4.80                     |                        |                     |
| 100             | QPSK       | 1       | 137       |                       | 4.65                     |                        | 5.0                 |
| 100             | QPSK       | 1       | 271       |                       | 4.54                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 4.77                     |                        | 5.0                 |
| 100             | QPSK       | 135     | 69        |                       | 4.71                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 4.57                     |                        | 5.0                 |
| 100             | QPSK       | 270     | 0         |                       | 4.75                     |                        |                     |
| 100             | 16QAM      | 1       | 1         |                       | 4.90                     |                        | 5.0                 |
| 100             | 64QAM      | 1       | 1         |                       | 4.91                     |                        |                     |
| 100             | 256QAM     | 1       | 1         |                       | 4.90                     |                        | 5.0                 |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 4.81                  | 4.85                     | 4.75                   | 5.0                 |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 4.80                  | 4.86                     | 4.79                   | 5.0                 |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 4.87                  | 4.87                     | 4.83                   | 5.0                 |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 4.88                  | 4.87                     | 4.80                   | 5.0                 |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 4.84                  | 4.90                     | 4.79                   | 5.0                 |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 4.85                  | 4.85                     | 4.79                   | 5.0                 |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 4.79                  | 4.86                     | 4.75                   | 5.0                 |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 4.85                  | 4.88                     | 4.79                   | 5.0                 |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 12.62                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 12.45                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 12.29                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 12.44                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 12.47                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 12.24                    |                        | 12.7                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 12.46                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 12.50                    |                        | 12.7                |
| 100             | QPSK       | 1       | 137       |                       | 12.35                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 12.24                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 12.47                    |                        | 12.7                |
| 100             | QPSK       | 135     | 69        |                       | 12.41                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 12.27                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 12.45                    |                        | 12.7                |
| 100             | 16QAM      | 1       | 1         |                       | 12.60                    |                        | 12.7                |
| 100             | 64QAM      | 1       | 1         |                       | 12.61                    |                        | 12.7                |
| 100             | 256QAM     | 1       | 1         |                       | 12.60                    |                        | 12.7                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.56                 | 12.53                    | 12.57                  | 12.7                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.55                 | 12.57                    | 12.54                  | 12.7                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.50                 | 12.60                    | 12.54                  | 12.7                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.48                 | 12.58                    | 12.59                  | 12.7                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.56                 | 12.53                    | 12.56                  | 12.7                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.48                 | 12.57                    | 12.55                  | 12.7                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.57                 | 12.55                    | 12.58                  | 12.7                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.50                 | 12.56                    | 12.51                  | 12.7                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 20.24                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 20.14                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 20.22                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 20.21                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 20.23                    |                        | 21.7                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 20.20                    |                        |                     |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 20.18                    |                        | 21.7                |
| 100             | QPSK       | 1       | 1         |                       | 20.18                    |                        |                     |
| 100             | QPSK       | 1       | 137       |                       | 20.20                    |                        | 21.7                |
| 100             | QPSK       | 1       | 271       |                       | 20.21                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 20.16                    |                        | 21.7                |
| 100             | QPSK       | 135     | 69        |                       | 20.22                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 20.22                    |                        | 21.7                |
| 100             | QPSK       | 270     | 0         |                       | 20.18                    |                        |                     |
| 100             | 16QAM      | 1       | 1         |                       | 20.12                    |                        | 21.7                |
| 100             | 64QAM      | 1       | 1         |                       | 20.20                    |                        | 21.7                |
| 100             | 256QAM     | 1       | 1         |                       | 19.98                    |                        | 21.7                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 20.20                 | 20.21                    | 20.18                  | 21.7                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 20.19                 | 20.19                    | 20.17                  | 21.7                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 20.18                 | 20.19                    | 20.17                  | 21.7                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 20.18                 | 20.20                    | 20.16                  | 21.7                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 20.18                 | 20.20                    | 20.16                  | 21.7                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 20.18                 | 20.20                    | 20.16                  | 21.7                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 20.19                 | 20.20                    | 20.16                  | 21.7                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 20.19                 | 20.19                    | 20.17                  | 21.7                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 9.67                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 9.59                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 9.51                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 9.56                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 9.64                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 9.57                     |                        | 10.6                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 9.55                     |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 9.50                     |                        | 10.6                |
| 100             | QPSK       | 1       | 137       |                       | 9.52                     |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 9.39                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 9.43                     |                        | 10.6                |
| 100             | QPSK       | 135     | 69        |                       | 9.52                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 9.46                     |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 9.37                     |                        | 10.6                |
| 100             | 16QAM      | 1       | 1         |                       | 9.51                     |                        | 10.6                |
| 100             | 64QAM      | 1       | 1         |                       | 9.49                     |                        | 10.6                |
| 100             | 256QAM     | 1       | 1         |                       | 9.45                     |                        | 10.6                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 9.63                  | 9.65                     | 9.61                   | 10.6                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 9.47                  | 9.50                     | 9.45                   | 10.6                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 9.47                  | 9.49                     | 9.47                   | 10.6                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 9.45                  | 9.49                     | 9.46                   | 10.6                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 9.44                  | 9.48                     | 9.51                   | 10.6                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 9.43                  | 9.51                     | 9.49                   | 10.6                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 9.52                  | 9.51                     | 9.44                   | 10.6                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 9.51                  | 9.45                     | 9.47                   | 10.6                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 9.25                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 9.20                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 9.10                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 9.20                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 9.23                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 9.14                     |                        | 10.5                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 9.18                     |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 9.15                     |                        | 10.5                |
| 100             | QPSK       | 1       | 137       |                       | 9.13                     |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 9.12                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 9.15                     |                        | 10.5                |
| 100             | QPSK       | 135     | 69        |                       | 9.19                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 9.05                     |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 9.09                     |                        | 10.5                |
| 100             | 16QAM      | 1       | 1         |                       | 9.13                     |                        | 10.5                |
| 100             | 64QAM      | 1       | 1         |                       | 9.14                     |                        | 10.5                |
| 100             | 256QAM     | 1       | 1         |                       | 9.06                     |                        | 10.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 9.18                  | 9.21                     | 9.19                   | 10.5                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 9.04                  | 9.07                     | 9.04                   | 10.5                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 9.06                  | 9.09                     | 9.09                   | 10.5                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 9.07                  | 9.01                     | 9.05                   | 10.5                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 9.06                  | 9.04                     | 9.02                   | 10.5                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 9.07                  | 9.11                     | 9.09                   | 10.5                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 9.00                  | 9.06                     | 8.99                   | 10.5                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 9.05                  | 9.09                     | 9.07                   | 10.5                |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 633332                   |                        |                     |
| Frequency (MHz) |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 11.26               |
| 100             | PI/2 BPSK             | 1                        | 137                    | 11.19               |
| 100             | PI/2 BPSK             | 1                        | 271                    | 11.11               |
| 100             | PI/2 BPSK             | 135                      | 0                      | 11.17               |
| 100             | PI/2 BPSK             | 135                      | 69                     | 11.20               |
| 100             | PI/2 BPSK             | 135                      | 138                    | 11.07               |
| 100             | PI/2 BPSK             | 270                      | 0                      | 11.14               |
| 100             | QPSK                  | 1                        | 1                      | 11.26               |
| 100             | QPSK                  | 1                        | 137                    | 11.06               |
| 100             | QPSK                  | 1                        | 271                    | 11.16               |
| 100             | QPSK                  | 135                      | 0                      | 11.20               |
| 100             | QPSK                  | 135                      | 69                     | 11.24               |
| 100             | QPSK                  | 135                      | 138                    | 11.19               |
| 100             | QPSK                  | 270                      | 0                      | 11.06               |
| 100             | 16QAM                 | 1                        | 1                      | 11.18               |
| 100             | 64QAM                 | 1                        | 1                      | 11.13               |
| 100             | 256QAM                | 1                        | 1                      | 11.19               |
| Channel         | 633000                | 633332                   | 633666                 |                     |
| Frequency (MHz) | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 11.10               |
| 90              | PI/2 BPSK             | 1                        | 1                      | 11.05               |
| 90              | PI/2 BPSK             | 1                        | 1                      | 10.06               |
| Channel         | 632668                | 633332                   | 634000                 |                     |
| Frequency (MHz) | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 10.95               |
| 80              | PI/2 BPSK             | 1                        | 1                      | 10.89               |
| 80              | PI/2 BPSK             | 1                        | 1                      | 10.95               |
| Channel         | 632334                | 633332                   | 634332                 |                     |
| Frequency (MHz) | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 10.95               |
| 70              | PI/2 BPSK             | 1                        | 1                      | 10.92               |
| 70              | PI/2 BPSK             | 1                        | 1                      | 10.97               |
| Channel         | 632000                | 633332                   | 634666                 |                     |
| Frequency (MHz) | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 10.95               |
| 60              | PI/2 BPSK             | 1                        | 1                      | 10.90               |
| 60              | PI/2 BPSK             | 1                        | 1                      | 10.95               |
| Channel         | 631668                | 633332                   | 635000                 |                     |
| Frequency (MHz) | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 10.95               |
| 50              | PI/2 BPSK             | 1                        | 1                      | 10.89               |
| 50              | PI/2 BPSK             | 1                        | 1                      | 10.97               |
| Channel         | 631334                | 633332                   | 635332                 |                     |
| Frequency (MHz) | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 10.95               |
| 40              | PI/2 BPSK             | 1                        | 1                      | 10.90               |
| 40              | PI/2 BPSK             | 1                        | 1                      | 10.95               |
| Channel         | 631000                | 633332                   | 635666                 |                     |
| Frequency (MHz) | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 10.97               |
| 30              | PI/2 BPSK             | 1                        | 1                      | 10.91               |
| 30              | PI/2 BPSK             | 1                        | 1                      | 10.95               |
| Channel         | 630668                | 633332                   | 636000                 |                     |
| Frequency (MHz) | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 10.94               |
| 20              | PI/2 BPSK             | 1                        | 1                      | 10.89               |
| 20              | PI/2 BPSK             | 1                        | 1                      | 10.97               |





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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 633332                   |                        |                     |
| Frequency (MHz) |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 23.27               |
| 100             | PI/2 BPSK             | 1                        | 137                    | 22.97               |
| 100             | PI/2 BPSK             | 1                        | 271                    | 22.84               |
| 100             | PI/2 BPSK             | 135                      | 0                      | 22.39               |
| 100             | PI/2 BPSK             | 135                      | 69                     | 22.53               |
| 100             | PI/2 BPSK             | 135                      | 138                    | 22.26               |
| 100             | PI/2 BPSK             | 270                      | 0                      | 22.25               |
| 100             | QPSK                  | 1                        | 1                      | 22.95               |
| 100             | QPSK                  | 1                        | 137                    | 22.91               |
| 100             | QPSK                  | 1                        | 271                    | 22.96               |
| 100             | QPSK                  | 135                      | 0                      | 22.45               |
| 100             | QPSK                  | 135                      | 69                     | 22.42               |
| 100             | QPSK                  | 135                      | 138                    | 22.33               |
| 100             | QPSK                  | 270                      | 0                      | 22.00               |
| 100             | 16QAM                 | 1                        | 1                      | 22.24               |
| 100             | 64QAM                 | 1                        | 1                      | 21.15               |
| 100             | 256QAM                | 1                        | 1                      | 19.15               |
| Channel         | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK             | 1                        | 1                      | 23.14               |
| 23.06           |                       |                          |                        | 23.05               |
| Channel         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK             | 1                        | 1                      | 23.01               |
| 22.83           |                       |                          |                        | 22.89               |
| Channel         | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK             | 1                        | 1                      | 22.96               |
| 22.87           |                       |                          |                        | 22.84               |
| Channel         | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK             | 1                        | 1                      | 23.00               |
| 22.88           |                       |                          |                        | 22.89               |
| Channel         | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK             | 1                        | 1                      | 23.00               |
| 22.86           |                       |                          |                        | 22.90               |
| Channel         | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK             | 1                        | 1                      | 22.94               |
| 22.87           |                       |                          |                        | 22.88               |
| Channel         | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK             | 1                        | 1                      | 22.93               |
| 22.90           |                       |                          |                        | 22.83               |
| Channel         | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK             | 1                        | 1                      | 22.94               |
| 22.88           |                       |                          |                        | 22.90               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 4.92                     |                        | 5.0                 |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 4.75                     |                        |                     |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 4.59                     |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 4.74                     |                        | 5.0                 |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 4.77                     |                        | 5.0                 |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 4.54                     |                        | 5.0                 |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 4.76                     |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 4.80                     |                        | 5.0                 |
| 100             | QPSK       | 1       | 137       |                       | 4.65                     |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 4.54                     |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 4.77                     |                        | 5.0                 |
| 100             | QPSK       | 135     | 69        |                       | 4.71                     |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 4.57                     |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 4.75                     |                        | 5.0                 |
| 100             | 16QAM      | 1       | 1         |                       | 4.90                     |                        | 5.0                 |
| 100             | 64QAM      | 1       | 1         |                       | 4.91                     |                        | 5.0                 |
| 100             | 256QAM     | 1       | 1         |                       | 4.90                     |                        | 5.0                 |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 4.81                  | 4.85                     | 4.75                   | 5.0                 |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 4.80                  | 4.86                     | 4.79                   | 5.0                 |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 4.87                  | 4.87                     | 4.83                   | 5.0                 |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 4.88                  | 4.87                     | 4.80                   | 5.0                 |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 4.84                  | 4.90                     | 4.79                   | 5.0                 |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 4.85                  | 4.85                     | 4.79                   | 5.0                 |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 4.79                  | 4.86                     | 4.75                   | 5.0                 |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 4.85                  | 4.88                     | 4.79                   | 5.0                 |



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| Channel         | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |                       | 633332                   |                        |                     |
| Frequency (MHz) |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK             | 1                        | 1                      | 12.7                |
| 100             | PI/2 BPSK             | 1                        | 137                    |                     |
| 100             | PI/2 BPSK             | 1                        | 271                    |                     |
| 100             | PI/2 BPSK             | 135                      | 0                      | 12.7                |
| 100             | PI/2 BPSK             | 135                      | 69                     | 12.7                |
| 100             | PI/2 BPSK             | 135                      | 138                    |                     |
| 100             | PI/2 BPSK             | 270                      | 0                      | 12.7                |
| 100             | QPSK                  | 1                        | 1                      |                     |
| 100             | QPSK                  | 1                        | 137                    | 12.7                |
| 100             | QPSK                  | 1                        | 271                    |                     |
| 100             | QPSK                  | 135                      | 0                      |                     |
| 100             | QPSK                  | 135                      | 69                     | 12.7                |
| 100             | QPSK                  | 135                      | 138                    |                     |
| 100             | QPSK                  | 270                      | 0                      | 12.7                |
| 100             | 16QAM                 | 1                        | 1                      | 12.7                |
| 100             | 64QAM                 | 1                        | 1                      | 12.7                |
| 100             | 256QAM                | 1                        | 1                      | 12.7                |
| Channel         | 633000                | 633332                   | 633666                 | Tune-up limit       |
| Frequency (MHz) | 3495                  | 3499.98                  | 3504.99                | (dBm)               |
| 90              | PI/2 BPSK             | 1                        | 1                      | 12.7                |
| Channel         | 632668                | 633332                   | 634000                 | Tune-up limit       |
| Frequency (MHz) | 3490.02               | 3499.98                  | 3510                   | (dBm)               |
| 80              | PI/2 BPSK             | 1                        | 1                      | 12.7                |
| Channel         | 632334                | 633332                   | 634332                 | Tune-up limit       |
| Frequency (MHz) | 3485.01               | 3499.98                  | 3514.98                | (dBm)               |
| 70              | PI/2 BPSK             | 1                        | 1                      | 12.7                |
| Channel         | 632000                | 633332                   | 634666                 | Tune-up limit       |
| Frequency (MHz) | 3480                  | 3499.98                  | 3519.99                | (dBm)               |
| 60              | PI/2 BPSK             | 1                        | 1                      | 12.7                |
| Channel         | 631668                | 633332                   | 635000                 | Tune-up limit       |
| Frequency (MHz) | 3475.02               | 3499.98                  | 3525                   | (dBm)               |
| 50              | PI/2 BPSK             | 1                        | 1                      | 12.7                |
| Channel         | 631334                | 633332                   | 635332                 | Tune-up limit       |
| Frequency (MHz) | 3470.01               | 3499.98                  | 3529.98                | (dBm)               |
| 40              | PI/2 BPSK             | 1                        | 1                      | 12.7                |
| Channel         | 631000                | 633332                   | 635666                 | Tune-up limit       |
| Frequency (MHz) | 3465                  | 3499.98                  | 3534.99                | (dBm)               |
| 30              | PI/2 BPSK             | 1                        | 1                      | 12.7                |
| Channel         | 630668                | 633332                   | 636000                 | Tune-up limit       |
| Frequency (MHz) | 3460.02               | 3499.98                  | 3540                   | (dBm)               |
| 20              | PI/2 BPSK             | 1                        | 1                      | 12.7                |



## **15. WiFi/Bluetooth Output Power (Unit: dBm)**

### **General Note:**

1. For 2.4GHz each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
2. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is  $< 1.6\text{W/kg}$  and SAR peak to location ratio  $\leq 0.04$ , no additional SAR measurements for 2.4GHz MIMO.
3. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, additional output power measurements were not necessary.
4. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
5. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
6. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
7. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. 18 The initial test position procedure is described in the following:
  - a. When the reported SAR of the initial test position is  $\leq 0.4\text{ W/kg}$ , further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
  - b. When the reported SAR of the test position is  $> 0.4\text{ W/kg}$ , SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8\text{ W/kg}$  or all required test position are tested.
  - c. For all positions/configurations, when the reported SAR is  $> 0.8\text{ W/kg}$ , SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2\text{ W/kg}$  or all required channels are tested.
8. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
9. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
10. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
11. When SAR testing for 802.11ax is required
  - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
  - b. Otherwise, consider the fully allocated channel for SAR testing
  - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel



P-Sensor Off Non-DBS / DBS

|             | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |              |              |       |              |       |              |       |              |       |       |       |       |       |       |       |       |       |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|--------------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|             |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |              |              |       |              |       |              |       |              |       |       |       |       |       |       |       |       |       |
| 2.4GHz WLAN | 802.11b 1Mbps       | 1       | 2412            | 23.00               | 23.00         | 98.20        | 22.40               | 23.00         | 98.20        | 23.00               | 23.00         | 22.40               | 23.00         | 25.72               | 26.00         | 98.20        |              |              |       |              |       |              |       |              |       |       |       |       |       |       |       |       |       |
|             |                     | 6       | 2437            | 22.60               | 23.00         |              | 22.10               | 23.00         |              | 22.60               | 23.00         | 22.10               | 23.00         | 25.37               | 26.00         |              |              |              |       |              |       |              |       |              |       |       |       |       |       |       |       |       |       |
|             |                     | 11      | 2462            | 22.00               | 23.00         |              | 21.70               | 23.00         |              | 22.00               | 23.00         | 21.70               | 23.00         | 25.37               | 26.00         |              |              |              |       |              |       |              |       |              |       |       |       |       |       |       |       |       |       |
|             | 802.11g 6Mbps       | 1       | 2412            | Not Required        | 19.00         | Not Required | Not Required        | 19.00         | Not Required | Not Required        | 19.00         | Not Required        | 19.00         | Not Required        | 19.00         | Not Required | 22.00        |              |       |              |       |              |       |              |       |       |       |       |       |       |       |       |       |
|             |                     | 6       | 2437            |                     | 21.50         |              |                     | 21.50         |              |                     | 21.50         |                     | 21.50         |                     | 24.50         |              |              |              |       |              |       |              |       |              |       |       |       |       |       |       |       |       |       |
|             |                     | 11      | 2462            |                     | 18.00         |              |                     | 18.00         |              |                     | 18.00         |                     | 18.00         |                     | 21.00         |              |              |              |       |              |       |              |       |              |       |       |       |       |       |       |       |       |       |
|             | 802.11n-HT20 MCS0   | 1       | 2412            |                     | 18.00         |              |                     | 18.00         |              |                     | 18.00         |                     | 18.00         |                     | 18.00         |              | 18.00        | 18.00        | 18.00 | 18.00        | 18.00 | 18.00        | 18.00 | 18.00        | 21.00 |       |       |       |       |       |       |       |       |
|             |                     | 6       | 2437            |                     | 21.00         |              |                     | 21.00         |              |                     | 21.00         |                     | 21.00         |                     | 21.00         |              | 21.00        | 21.00        | 21.00 | 21.00        | 21.00 | 21.00        | 21.00 | 24.00        |       |       |       |       |       |       |       |       |       |
|             |                     | 11      | 2462            |                     | 18.00         |              |                     | 18.00         |              |                     | 18.00         |                     | 18.00         |                     | 18.00         |              | 18.00        | 18.00        | 18.00 | 18.00        | 18.00 | 18.00        | 18.00 | 21.00        |       |       |       |       |       |       |       |       |       |
|             | 802.11n-HT40 MCS0   | 3       | 2422            |                     | 18.00         |              |                     | 18.00         |              |                     | 18.00         |                     | 18.00         |                     | 18.00         |              | 18.00        | 18.00        | 18.00 | 18.00        | 18.00 | 18.00        | 18.00 | 18.00        | 21.00 |       |       |       |       |       |       |       |       |
|             |                     | 6       | 2437            |                     | 19.00         |              |                     | 19.00         |              |                     | 19.00         |                     | 19.00         |                     | 19.00         |              | 19.00        | 19.00        | 19.00 | 19.00        | 19.00 | 19.00        | 19.00 | 22.00        |       |       |       |       |       |       |       |       |       |
|             |                     | 9       | 2452            |                     | 18.00         |              |                     | 18.00         |              |                     | 18.00         |                     | 18.00         |                     | 18.00         |              | 18.00        | 18.00        | 18.00 | 18.00        | 18.00 | 18.00        | 18.00 | 21.00        |       |       |       |       |       |       |       |       |       |
|             | 802.11ac-VHT20 MCS0 | 1       | 2412            |                     | Not Required  |              |                     | 18.00         |              |                     | Not Required  |                     | Not Required  |                     | 18.00         |              | Not Required | Not Required | 18.00 | Not Required | 18.00 | Not Required | 18.00 | Not Required | 21.00 |       |       |       |       |       |       |       |       |
|             |                     | 6       | 2437            |                     |               |              |                     | 21.00         |              |                     |               |                     |               |                     | 21.00         |              |              |              | 21.00 |              | 21.00 |              | 24.00 |              |       |       |       |       |       |       |       |       |       |
|             |                     | 11      | 2462            |                     |               |              |                     | 18.00         |              |                     |               |                     |               |                     | 18.00         |              |              |              | 18.00 |              | 18.00 |              | 21.00 |              |       |       |       |       |       |       |       |       |       |
|             | 802.11ac-VHT40 MCS0 | 3       | 2422            |                     |               |              |                     | 18.00         |              |                     |               |                     |               |                     | 18.00         |              |              |              | 18.00 |              | 18.00 |              | 18.00 |              | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 21.00 |
|             |                     | 6       | 2437            |                     |               |              |                     | 19.00         |              |                     |               |                     |               |                     | 19.00         |              |              |              | 19.00 |              | 19.00 |              | 19.00 |              | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 22.00 |       |
|             |                     | 9       | 2452            |                     |               |              |                     | 18.00         |              |                     |               |                     |               |                     | 18.00         |              |              |              | 18.00 |              | 18.00 |              | 18.00 |              | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 21.00 |       |
|             | 802.11ax-HE20 MCS0  | 1       | 2412            |                     |               |              |                     | 18.00         |              |                     |               |                     |               |                     | 18.00         |              |              |              | 18.00 |              | 18.00 |              | 18.00 |              | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 21.00 |
|             |                     | 6       | 2437            |                     |               |              |                     | 21.00         |              |                     |               |                     |               |                     | 21.00         |              |              |              | 21.00 |              | 21.00 |              | 21.00 |              | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 24.00 |       |
|             |                     | 11      | 2462            |                     |               |              |                     | 18.00         |              |                     |               |                     |               |                     | 18.00         |              |              |              | 18.00 |              | 18.00 |              | 18.00 |              | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 21.00 |       |
|             | 802.11ax-HE40 MCS0  | 3       | 2422            |                     |               |              |                     | 18.00         |              |                     |               |                     |               |                     | 18.00         |              |              |              | 18.00 |              | 18.00 |              | 18.00 |              | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 21.00 |
|             |                     | 6       | 2437            |                     |               |              |                     | 19.00         |              |                     |               |                     |               |                     | 19.00         |              |              |              | 19.00 |              | 19.00 |              | 19.00 |              | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 22.00 |       |
|             |                     | 9       | 2452            |                     |               |              |                     | 18.00         |              |                     |               |                     |               |                     | 18.00         |              |              |              | 18.00 |              | 18.00 |              | 18.00 |              | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 21.00 |       |



**FCC SAR TEST REPORT**

**Report No. : FA371211A**

|                    | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |
|--------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                    |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN        | 802.11a 6Mbps       | 36      | 5180            | Not Required        | 17.50         | Not Required | Not Required        | 17.50         | Not Required | Not Required        | 17.50         | Not Required        | 17.50         | Not Required        | 20.50         | Not Required |
|                    |                     | 40      | 5200            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 44      | 5220            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 48      | 5240            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    | 802.11n-HT20 MCS0   | 36      | 5180            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 40      | 5200            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 44      | 5220            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 48      | 5240            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    | 802.11n-HT40 MCS0   | 38      | 5190            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 46      | 5230            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    | 802.11ac-VHT20 MCS0 | 36      | 5180            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 40      | 5200            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 44      | 5220            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 48      | 5240            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    | 802.11ac-VHT40 MCS0 | 38      | 5190            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 46      | 5230            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    | 802.11ac-VHT80 MCS0 | 42      | 5210            |                     | 16.50         |              |                     | 16.50         |              |                     | 16.50         |                     | 19.50         |                     |               |              |
|                    | 802.11ax-HE20 MCS0  | 36      | 5180            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 40      | 5200            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
|                    |                     | 44      | 5220            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |
| 48                 |                     | 5240    | 17.50           | 17.50               | 17.50         | 20.50        |                     |               |              |                     |               |                     |               |                     |               |              |
| 802.11ax-HE40 MCS0 | 38                  | 5190    | 17.50           | 17.50               | 17.50         | 20.50        |                     |               |              |                     |               |                     |               |                     |               |              |
|                    | 46                  | 5230    | 17.50           | 17.50               | 17.50         | 20.50        |                     |               |              |                     |               |                     |               |                     |               |              |
| 802.11ax-HE80 MCS0 | 42                  | 5210    | 16.50           | 16.50               | 16.50         | 19.50        |                     |               |              |                     |               |                     |               |                     |               |              |



|                     | Mode                 | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |              |       |              |              |              |       |              |              |              |              |              |
|---------------------|----------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|--------------|-------|--------------|--------------|--------------|-------|--------------|--------------|--------------|--------------|--------------|
|                     |                      |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |              |       |              |              |              |       |              |              |              |              |              |
| 5.3GHz WLAN         | 802.11a 6Mbps        | 52      | 5260            | Not Required        | 17.50         | Not Required | Not Required        | 17.50         | Not Required | Not Required        | 17.50         | Not Required        | 17.50         | Not Required        | 20.50         | Not Required |              |       |              |              |              |       |              |              |              |              |              |
|                     |                      | 56      | 5280            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |              |       |              |              |              |       |              |              |              |              |              |
|                     |                      | 60      | 5300            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |              |       |              |              |              |       |              |              |              |              |              |
|                     |                      | 64      | 5320            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |              |       |              |              |              |       |              |              |              |              |              |
|                     | 802.11n-HT20 MCS0    | 52      | 5260            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50        | 17.50 | 17.50        | 17.50        | 17.50        | 17.50 | 20.50        | 20.50        |              |              |              |
|                     |                      | 56      | 5280            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50        | 17.50 | 17.50        | 17.50        | 17.50        | 17.50 | 20.50        | 20.50        |              |              |              |
|                     |                      | 60      | 5300            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50        | 17.50 | 17.50        | 17.50        | 17.50        | 17.50 | 20.50        | 20.50        |              |              |              |
|                     |                      | 64      | 5320            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50        | 17.50 | 17.50        | 17.50        | 17.50        | 17.50 | 20.50        | 20.50        |              |              |              |
|                     | 802.11n-HT40 MCS0    | 54      | 5270            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.00        | 17.50 | 17.20        | 17.50        | 17.50        | 20.11 | 20.50        | 100.00       |              |              |              |
|                     |                      | 62      | 5310            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 16.30         |              | 17.50        | 16.30 | 17.50        | 17.50        | 19.31        | 20.50 |              |              |              |              |              |
|                     | 802.11ac-VHT20 MCS0  | 52      | 5260            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | Not Required | 17.50 | Not Required | 17.50        | Not Required | 17.50 | Not Required | 20.50        | Not Required |              |              |
|                     |                      | 56      | 5280            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              |              | 17.50 |              | 17.50        |              | 17.50 |              | 17.50        |              | 17.50        | 17.50        |
|                     |                      | 60      | 5300            |                     | 17.50         |              |                     | 17.50         |              | 17.50               | 17.50         | 17.50               | 17.50         | 17.50               | 17.50         |              |              | 17.50 |              | 17.50        |              | 17.50 |              | 20.50        |              |              |              |
|                     |                      | 64      | 5320            |                     | 17.50         |              |                     | 17.50         |              | 17.50               | 17.50         | 17.50               | 17.50         | 17.50               | 17.50         |              |              | 17.50 |              | 17.50        |              | 17.50 |              | 20.50        |              |              |              |
|                     | 802.11ac-VHT40 MCS0  | 54      | 5270            |                     | 17.50         |              |                     | 17.50         |              | 17.50               | 17.50         | 17.50               | 17.50         | 17.50               | 17.50         |              |              | 17.50 |              | 17.50        |              | 17.50 |              | 20.50        |              | 20.50        |              |
|                     |                      | 62      | 5310            |                     | 17.50         |              |                     | 17.50         |              | 17.50               | 17.50         | 17.50               | 17.50         | 17.50               | 17.50         |              |              | 17.50 |              | 17.50        |              | 17.50 |              | 20.50        |              |              |              |
|                     | 802.11ac-VHT80 MCS0  | 58      | 5290            |                     | 16.50         |              |                     | 16.50         |              | 16.50               | 16.50         | 16.50               | 16.50         | 16.50               | 16.50         |              |              | 16.50 |              | 16.50        |              | 16.50 |              | 19.50        |              |              |              |
|                     | 802.11ac-VHT160 MCS0 | 50      | 5250            |                     | 13.5          |              |                     | 13.5          |              | 13.5                | 13.5          | 13.5                | 13.5          | 13.5                | 13.5          |              |              | 13.5  |              | 13.5         |              | 13.5  |              | 16.5         |              | Not Required |              |
|                     | 802.11ax-HE20 MCS0   | 52      | 5260            |                     | 17.50         |              |                     | 17.50         |              | 17.50               | 17.50         | 17.50               | Not Required  | 17.50               | Not Required  |              |              | 17.50 |              | Not Required |              | 17.50 |              | Not Required |              | 20.50        | Not Required |
|                     |                      | 56      | 5280            |                     | 17.50         |              |                     | 17.50         |              | 17.50               | 17.50         | 17.50               |               | 17.50               |               |              |              | 17.50 |              |              |              | 17.50 |              |              |              | 17.50        |              |
| 60                  |                      | 5300    | 17.50           | 17.50               | 17.50         | 17.50        | 17.50               | 17.50         | 17.50        | 17.50               | 17.50         | 17.50               |               | 17.50               |               | 20.50        |              |       |              |              |              |       |              |              |              |              |              |
| 64                  |                      | 5320    | 17.50           | 17.50               | 17.50         | 17.50        | 17.50               | 17.50         | 17.50        | 17.50               | 17.50         | 17.50               |               | 17.50               |               | 20.50        |              |       |              |              |              |       |              |              |              |              |              |
| 802.11ax-HE40 MCS0  | 54                   | 5270    | 17.50           | 17.50               | 17.50         | 17.50        | 17.50               | 17.50         | 17.50        | 17.50               | 17.50         | 17.50               |               | 17.50               |               | 20.50        | 20.50        |       |              |              |              |       |              |              |              |              |              |
|                     | 62                   | 5310    | 17.50           | 17.50               | 17.50         | 17.50        | 17.50               | 17.50         | 17.50        | 17.50               | 17.50         | 17.50               |               | 17.50               |               | 20.50        |              |       |              |              |              |       |              |              |              |              |              |
| 802.11ax-HE80 MCS0  | 58                   | 5290    | 16.50           | 16.50               | 16.50         | 16.50        | 16.50               | 16.50         | 16.50        | 16.50               | 16.50         | 16.50               |               | 16.50               |               | 19.50        |              |       |              |              |              |       |              |              |              |              |              |
| 802.11ax-HE160 MCS0 | 50                   | 5250    | 13.5            | 13.5                | 13.5          | 13.5         | 13.5                | 13.5          | 13.5         | 13.5                | 13.5          | 13.5                |               | 13.5                |               | 16.5         |              |       |              |              |              |       |              |              |              |              |              |



| 5.5GHz WLAN          | Mode | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |
|----------------------|------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                      |      |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 100  | 5500    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               | Not Required  |              |
|                      | 116  | 5580    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 124  | 5620    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 132  | 5660    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 144  | 5720    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
| 802.11n-HT20 MCS0    | 100  | 5500    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               | Not Required  |              |
|                      | 116  | 5580    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 124  | 5620    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 132  | 5660    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 144  | 5720    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
| 802.11n-HT40 MCS0    | 102  | 5510    |                 | 16.50               |               |              | 16.50               |               |              | 16.50               |               | 16.50               |               | 19.50               | Not Required  |              |
|                      | 110  | 5550    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 126  | 5630    |                 | 17.50               |               |              | 17.50               |               | Not Required | 17.50               | Not Required  | 17.50               | Not Required  | 20.50               |               |              |
|                      | 134  | 5670    |                 | 17.00               |               |              | 17.00               |               |              | 17.00               |               | 17.00               |               | 20.00               |               |              |
|                      | 142  | 5710    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
| 802.11ac-VHT20 MCS0  | 100  | 5500    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               | Not Required  |              |
|                      | 116  | 5580    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 124  | 5620    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 132  | 5660    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 144  | 5720    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
| 802.11ac-VHT40 MCS0  | 102  | 5510    | Not Required    | 16.50               | Not Required  |              | 16.50               |               |              | 16.50               |               | 16.50               |               | 19.50               | Not Required  |              |
|                      | 110  | 5550    |                 | 17.50               |               | Not Required | 17.50               | Not Required  |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 126  | 5630    |                 | 17.00               |               |              | 17.00               |               |              | 17.00               |               | 17.00               |               | 20.00               |               |              |
|                      | 134  | 5670    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 142  | 5710    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
| 802.11ac-VHT80 MCS0  | 106  | 5530    |                 | 16.00               |               |              | 16.00               |               |              | 15.50               | 16.00         | 15.70               | 16.00         | 18.61               | 19.00         | 99.40        |
|                      | 122  | 5610    |                 | 17.50               |               |              | 17.50               |               |              | 16.70               | 17.50         | 15.90               | 17.50         | 19.33               | 20.50         |              |
|                      | 138  | 5690    |                 | 17.50               |               |              | 17.50               |               |              | 16.80               | 17.50         | 17.20               | 17.50         | 20.01               | 20.50         |              |
| 802.11ac-VHT160 MCS0 | 114  | 5570    |                 | 15.50               |               |              | 15.50               |               |              |                     | 15.50         |                     | 15.50         |                     | 18.50         | Not Required |
| 802.11ax-HE20 MCS0   | 100  | 5500    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 116  | 5580    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 124  | 5620    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 132  | 5660    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 144  | 5720    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
| 802.11ax-HE40 MCS0   | 102  | 5510    |                 | 16.50               |               |              | 16.50               |               |              | 16.50               |               | 16.50               |               | 19.50               |               |              |
|                      | 110  | 5550    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 126  | 5630    |                 | 17.50               |               |              | 17.50               |               | Not Required | 17.50               | Not Required  | 17.50               | Not Required  | 20.50               |               |              |
|                      | 134  | 5670    |                 | 17.00               |               |              | 17.00               |               |              | 17.00               |               | 17.00               |               | 20.00               |               |              |
|                      | 142  | 5710    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
| 802.11ax-HE80 MCS0   | 106  | 5530    |                 | 16.00               |               |              | 16.00               |               |              | 16.00               |               | 16.00               |               | 19.00               | Not Required  |              |
|                      | 122  | 5610    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
|                      | 138  | 5690    |                 | 17.50               |               |              | 17.50               |               |              | 17.50               |               | 17.50               |               | 20.50               |               |              |
| 802.11ax-HE160 MCS0  | 114  | 5570    |                 | 15.50               |               |              | 15.50               |               |              | 15.50               |               | 15.50               |               | 18.50               |               |              |





|                    | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |              |              |       |              |              |              |       |              |              |       |              |
|--------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|--------------|--------------|-------|--------------|--------------|--------------|-------|--------------|--------------|-------|--------------|
|                    |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |              |              |       |              |              |              |       |              |              |       |              |
| 5.8GHz WLAN        | 802.11a 6Mbps       | 149     | 5745            | Not Required        | 17.50         | Not Required | Not Required        | 17.50         | Not Required | Not Required        | 17.50         | Not Required        | 17.50         | Not Required        | 20.50         | Not Required |              |              |       |              |              |              |       |              |              |       |              |
|                    |                     | 157     | 5785            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |              |              |       |              |              |              |       |              |              |       |              |
|                    |                     | 165     | 5825            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |              |              |       |              |              |              |       |              |              |       |              |
|                    | 802.11n-HT20 MCS0   | 149     | 5745            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |              |              |       |              |              |              |       |              |              |       |              |
|                    |                     | 157     | 5785            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |              |              |       |              |              |              |       |              |              |       |              |
|                    |                     | 165     | 5825            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 20.50         |                     |               |              |              |              |       |              |              |              |       |              |              |       |              |
|                    | 802.11n-HT40 MCS0   | 151     | 5755            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.10         |                     | 17.50         |                     | 17.20         |              | 17.50        | 20.16        | 20.50 | 99.70        |              |              |       |              |              |       |              |
|                    |                     | 159     | 5795            |                     | 17.50         |              |                     | 17.50         |              |                     | 16.90         |                     | 17.50         |                     | 17.10         |              | 17.50        | 20.01        | 20.50 |              |              |              |       |              |              |       |              |
|                    | 802.11ac-VHT20 MCS0 | 149     | 5745            |                     | 17.50         |              |                     | 17.50         |              |                     | Not Required  |                     | 17.50         |                     | Not Required  |              | Not Required | Not Required | 17.50 | Not Required | 17.50        | Not Required | 20.50 | Not Required |              |       |              |
|                    |                     | 157     | 5785            |                     | 17.50         |              |                     | 17.50         |              | 17.50               |               | 17.50               | 20.50         |                     |               |              |              |              |       |              |              |              |       |              |              |       |              |
|                    |                     | 165     | 5825            |                     | 17.50         |              |                     | 17.50         |              | 17.50               |               | 17.50               | 20.50         |                     |               |              |              |              |       |              |              |              |       |              |              |       |              |
|                    | 802.11ac-VHT40 MCS0 | 151     | 5755            |                     | 17.50         |              |                     | 17.50         |              | 17.50               |               | 17.50               | 17.50         | 17.50               |               | 20.50        |              |              |       |              |              |              |       |              |              |       |              |
|                    |                     | 159     | 5795            |                     | 17.50         |              |                     | 17.50         |              | 17.50               |               | 17.50               | 17.50         | 20.50               |               |              |              |              |       |              |              |              |       |              |              |       |              |
|                    | 802.11ac-VHT80 MCS0 | 155     | 5775            |                     | 17.50         |              |                     | 17.50         |              | 16.90               |               | 17.50               | 17.10         | 17.50               |               | 20.01        |              |              | 20.50 |              | 99.40        |              |       |              |              |       |              |
|                    | 802.11ax-HE20 MCS0  | 149     | 5745            |                     | 17.50         |              |                     | 17.50         |              | Not Required        |               | 17.50               | Not Required  | Not Required        |               | Not Required |              |              | 17.50 |              | Not Required |              | 17.50 |              | Not Required | 20.50 | Not Required |
|                    |                     | 157     | 5785            |                     | 17.50         |              |                     | 17.50         |              |                     |               | 17.50               |               |                     |               |              |              |              | 17.50 |              |              |              | 20.50 |              |              |       |              |
|                    |                     | 165     | 5825            |                     | 17.50         |              |                     | 17.50         |              |                     |               | 17.50               |               |                     |               |              |              |              | 17.50 |              |              |              | 20.50 |              |              |       |              |
|                    | 802.11ax-HE40 MCS0  | 151     | 5755            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         | 17.50               |               |                     | 17.50         |              | 17.50        | 20.50        |       |              |              |              |       |              |              |       |              |
| 159                |                     | 5795    | 17.50           | 17.50               | 17.50         | 17.50        | 17.50               | 20.50         |              |                     |               |                     |               |                     |               |              |              |              |       |              |              |              |       |              |              |       |              |
| 802.11ax-HE80 MCS0 | 155                 | 5775    | 17.50           | 17.50               | 17.50         | 17.50        | 17.50               | 17.50         | 20.50        |                     |               |                     |               |                     |               |              |              |              |       |              |              |              |       |              |              |       |              |



<6GHz WLAN indoor>

|         | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |
|---------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|         |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| WiFi 6E | 802.11a 6Mbps       | 1       | 5955            | Not Required        | 2.00          | Not Required | Not Required        | 2.00          | Not Required | Not Required        | 2.00          | Not Required        | 2.00          | Not Required        | 5.00          | Not Required |
|         |                     | 57      | 6235            |                     | 2.50          |              |                     | 1.50          |              |                     | 2.50          |                     | 1.50          |                     | 5.00          |              |
|         |                     | 113     | 6515            |                     | 2.00          |              |                     | 4.00          |              |                     | 2.00          |                     | 4.00          |                     | 6.00          |              |
|         |                     | 173     | 6815            |                     | 3.00          |              |                     | 3.00          |              |                     | 3.00          |                     | 3.00          |                     | 6.00          |              |
|         | 233                 | 7115    | 2.00            |                     | 3.00          |              |                     | 2.00          |              |                     | 3.00          |                     | 5.50          |                     |               |              |
|         | 802.11ax-HE20 MCS0  | 1       | 5955            |                     | 5.50          |              |                     | 5.50          |              |                     | 5.50          |                     | 5.50          |                     | 8.50          |              |
|         |                     | 57      | 6235            |                     | 6.00          |              |                     | 6.00          |              |                     | 6.00          |                     | 6.00          |                     | 9.00          |              |
|         |                     | 113     | 6515            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |
|         |                     | 173     | 6815            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |
|         | 802.11ax-HE40 MCS0  | 3       | 5965            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|         |                     | 59      | 6245            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|         |                     | 107     | 6485            |                     | 10.50         |              |                     | 10.50         |              |                     | 10.50         |                     | 10.50         |                     | 13.50         |              |
|         |                     | 171     | 6805            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.50         |              |
|         | 802.11ax-HE80 MCS0  | 227     | 7085            |                     | 10.50         |              |                     | 10.50         |              |                     | 10.50         |                     | 10.50         |                     | 13.50         |              |
|         |                     | 7       | 5985            |                     | 11.50         |              |                     | 11.50         |              |                     | 11.50         |                     | 11.50         |                     | 14.50         |              |
|         |                     | 71      | 6305            |                     | 11.50         |              |                     | 11.50         |              |                     | 11.50         |                     | 11.50         |                     | 14.50         |              |
|         |                     | 119     | 6545            |                     | 13.00         |              |                     | 13.00         |              |                     | 13.00         |                     | 13.00         |                     | 16.00         |              |
|         | 802.11ax-HE160 MCS0 | 167     | 6785            |                     | 13.00         |              |                     | 13.00         |              |                     | 13.00         |                     | 13.00         |                     | 16.00         |              |
|         |                     | 215     | 7025            |                     | 13.00         |              |                     | 13.00         |              |                     | 13.00         |                     | 13.00         |                     | 16.00         |              |
|         |                     | 15      | 6025            |                     | 14.00         |              |                     | 14.00         |              |                     | 13.60         |                     | 14.00         |                     | 16.46         |              |
| 47      |                     | 6185    | 14.00           | 14.00               | 13.90         | 14.00        | 16.70               |               |              |                     |               |                     |               |                     |               |              |
| 111     | 6505                | 15.00   | 15.00           | 14.30               | 15.00         | 17.51        |                     |               |              |                     |               |                     |               |                     |               |              |
| 143     | 6665                | 13.50   | 14.00           | 13.40               | 13.50         | 16.67        |                     |               |              |                     |               |                     |               |                     |               |              |
| 207     | 6985                | 14.00   | 14.00           | 13.50               | 14.00         | 16.71        |                     |               |              |                     |               |                     |               |                     |               |              |

<6GHz WLAN standard>

|         | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |
|---------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|         |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| WiFi 6E | 802.11a 6Mbps       | 1       | 5955            | Not Required        | 14.00         | Not Required | Not Required        | 14.00         | Not Required | Not Required        | 14.00         | Not Required        | 14.00         | Not Required        | 17.00         | Not Required |
|         |                     | 57      | 6235            |                     | 14.00         |              |                     | 14.00         |              |                     | 14.00         |                     | 14.00         |                     | 17.00         |              |
|         |                     | 113     | 6515            |                     | 2.00          |              |                     | 4.00          |              |                     | 2.00          |                     | 4.00          |                     | 6.00          |              |
|         |                     | 173     | 6815            |                     | 13.50         |              |                     | 14.00         |              |                     | 13.50         |                     | 14.00         |                     | 16.75         |              |
|         | 233                 | 7115    | 2.00            |                     | 3.00          |              |                     | 2.00          |              |                     | 3.00          |                     | 5.50          |                     |               |              |
|         | 802.11ax-HE20 MCS0  | 1       | 5955            |                     | 14.00         |              |                     | 14.00         |              |                     | 14.00         |                     | 14.00         |                     | 17.00         |              |
|         |                     | 57      | 6235            |                     | 14.00         |              |                     | 14.00         |              |                     | 14.00         |                     | 14.00         |                     | 17.00         |              |
|         |                     | 113     | 6515            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |
|         |                     | 173     | 6815            |                     | 13.50         |              |                     | 14.00         |              |                     | 13.50         |                     | 14.00         |                     | 16.75         |              |
|         | 802.11ax-HE40 MCS0  | 233     | 7115            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |
|         |                     | 3       | 5965            |                     | 14.00         |              |                     | 14.00         |              |                     | 14.00         |                     | 14.00         |                     | 17.00         |              |
|         |                     | 59      | 6245            |                     | 14.00         |              |                     | 14.00         |              |                     | 14.00         |                     | 14.00         |                     | 17.00         |              |
|         |                     | 107     | 6485            |                     | 10.50         |              |                     | 10.50         |              |                     | 10.50         |                     | 10.50         |                     | 13.50         |              |
|         | 802.11ax-HE80 MCS0  | 171     | 6805            |                     | 13.50         |              |                     | 14.00         |              |                     | 13.50         |                     | 14.00         |                     | 16.75         |              |
|         |                     | 227     | 7085            |                     | 10.50         |              |                     | 10.50         |              |                     | 10.50         |                     | 10.50         |                     | 13.50         |              |
|         |                     | 7       | 5985            |                     | 14.00         |              |                     | 14.00         |              |                     | 14.00         |                     | 14.00         |                     | 17.00         |              |
|         |                     | 71      | 6305            |                     | 14.00         |              |                     | 14.00         |              |                     | 14.00         |                     | 14.00         |                     | 17.00         |              |
|         | 802.11ax-HE160 MCS0 | 119     | 6545            |                     | 13.00         |              |                     | 13.00         |              |                     | 13.00         |                     | 13.00         |                     | 16.00         |              |
|         |                     | 167     | 6785            |                     | 13.50         |              |                     | 14.00         |              |                     | 13.50         |                     | 14.00         |                     | 16.75         |              |
|         |                     | 215     | 7025            |                     | 13.00         |              |                     | 13.00         |              |                     | 13.00         |                     | 13.00         |                     | 16.00         |              |
| 15      |                     | 6025    | 14.00           | 14.00               | 13.60         | 14.00        | 16.46               | 99.31         |              |                     |               |                     |               |                     |               |              |
| 47      | 6185                | 14.00   | 14.00           | 13.90               | 14.00         | 16.70        |                     |               |              |                     |               |                     |               |                     |               |              |
| 111     | 6505                | 15.00   | 15.00           | 14.20               | 15.00         | 17.52        |                     |               |              |                     |               |                     |               |                     |               |              |
| 143     | 6665                | 13.50   | 14.00           | 13.50               | 13.50         | 16.71        |                     |               |              |                     |               |                     |               |                     |               |              |
| 207     | 6985                | 14.00   | 14.00           | 13.50               | 14.00         | 16.71        |                     |               |              |                     |               |                     |               |                     |               |              |



P-Sensor On Non-DBS

|             | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |       |       |       |       |       |       |       |       |       |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|             |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |       |       |       |       |       |       |       |       |
| 2.4GHz WLAN | 802.11b 1Mbps       | 1       | 2412            | 17.50               | 17.50         | 98.20        | 17.10               | 17.50         | 98.20        | 17.40               | 17.50         | 17.30               | 17.50         | 20.36               | 20.50         | 98.20        |       |       |       |       |       |       |       |       |       |
|             |                     | 6       | 2437            | 17.40               | 17.50         |              | 17.10               | 17.50         |              | 17.20               | 17.50         | 17.20               | 17.50         | 20.20               | 20.50         |              |       |       |       |       |       |       |       |       |       |
|             |                     | 11      | 2462            | 17.20               | 17.50         |              | 17.10               | 17.50         |              | 17.20               | 17.50         | 17.10               | 17.50         | 20.16               | 20.50         |              |       |       |       |       |       |       |       |       |       |
|             | 802.11g 6Mbps       | 1       | 2412            | Not Required        | 17.50         | Not Required | Not Required        | 17.50         | Not Required | Not Required        | 17.50         | Not Required        | 17.50         | Not Required        | 17.50         | Not Required | 20.50 |       |       |       |       |       |       |       |       |
|             |                     | 6       | 2437            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 20.50         |              |       |       |       |       |       |       |       |       |       |
|             |                     | 11      | 2462            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 20.50         |              |       |       |       |       |       |       |       |       |       |
|             | 802.11n-HT20 MCS0   | 1       | 2412            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 6       | 2437            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 11      | 2462            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             | 802.11n-HT40 MCS0   | 3       | 2422            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 6       | 2437            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 9       | 2452            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             | 802.11ac-VHT20 MCS0 | 1       | 2412            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 6       | 2437            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 11      | 2462            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             | 802.11ac-VHT40 MCS0 | 3       | 2422            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 6       | 2437            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 9       | 2452            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             | 802.11ax-HE20 MCS0  | 1       | 2412            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 6       | 2437            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 11      | 2462            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             | 802.11ax-HE40 MCS0  | 3       | 2422            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 6       | 2437            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |
|             |                     | 9       | 2452            |                     | 17.50         |              |                     | 17.50         |              |                     | 17.50         |                     | 17.50         |                     | 17.50         |              | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 20.50 |



|                    | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |
|--------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                    |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN        | 802.11a 6Mbps       | 36      | 5180            | Not Required        | 12.00         | Not Required | Not Required        | 12.00         | Not Required | Not Required        | 12.00         | Not Required        | 12.00         | Not Required        | 15.00         | Not Required |
|                    |                     | 40      | 5200            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 44      | 5220            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 48      | 5240            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    | 802.11n-HT20 MCS0   | 36      | 5180            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 40      | 5200            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 44      | 5220            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 48      | 5240            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    | 802.11n-HT40 MCS0   | 38      | 5190            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 46      | 5230            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    | 802.11ac-VHT20 MCS0 | 36      | 5180            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 40      | 5200            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 44      | 5220            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 48      | 5240            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    | 802.11ac-VHT40 MCS0 | 38      | 5190            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 46      | 5230            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    | 802.11ac-VHT80 MCS0 | 42      | 5210            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    | 802.11ax-HE20 MCS0  | 36      | 5180            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 40      | 5200            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                    |                     | 44      | 5220            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
| 48                 |                     | 5240    | 12.00           | 12.00               | 15.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |
| 802.11ax-HE40 MCS0 | 38                  | 5190    | 12.00           | 12.00               | 15.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |
|                    | 46                  | 5230    | 12.00           | 12.00               | 15.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |
| 802.11ax-HE80 MCS0 | 42                  | 5210    | 12.00           | 12.00               | 15.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |



|                     | Mode                 | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |
|---------------------|----------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     |                      |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.3GHz WLAN         | 802.11a 6Mbps        | 52      | 5260            | Not Required        | 12.00         | Not Required | Not Required        | 12.00         | Not Required | Not Required        | 12.00         | Not Required        | 12.00         | Not Required        | 15.00         | Not Required |
|                     |                      | 56      | 5280            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     |                      | 60      | 5300            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     |                      | 64      | 5320            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     | 802.11n-HT20 MCS0    | 52      | 5260            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     |                      | 56      | 5280            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     |                      | 60      | 5300            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     |                      | 64      | 5320            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     | 802.11n-HT40 MCS0    | 54      | 5270            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     |                      | 62      | 5310            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     | 802.11ac-VHT20 MCS0  | 52      | 5260            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     |                      | 56      | 5280            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     |                      | 60      | 5300            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     |                      | 64      | 5320            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     | 802.11ac-VHT40 MCS0  | 54      | 5270            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     |                      | 62      | 5310            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     | 802.11ac-VHT80 MCS0  | 58      | 5290            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     | 802.11ac-VHT160 MCS0 | 50      | 5250            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     | 802.11ax-HE20 MCS0   | 52      | 5260            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
|                     |                      | 56      | 5280            |                     | 12.00         |              |                     | 12.00         |              |                     | 15.00         |                     |               |                     |               |              |
| 60                  |                      | 5300    | 12.00           | 12.00               | 15.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |
| 64                  |                      | 5320    | 12.00           | 12.00               | 15.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |
| 802.11ax-HE40 MCS0  | 54                   | 5270    | 12.00           | 12.00               | 15.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |
|                     | 62                   | 5310    | 12.00           | 12.00               | 15.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |
| 802.11ax-HE80 MCS0  | 58                   | 5290    | 12.00           | 12.00               | 15.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |
| 802.11ax-HE160 MCS0 | 50                   | 5250    | 12.00           | 12.00               | 15.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |
|                     |                      |         |                 |                     |               |              | 11.80               | 12.00         | 11.90        | 12.00               | 14.86         | 15.00               | 99.40         |                     |               |              |
|                     |                      |         |                 |                     |               |              | 11.90               | 12.00         | 11.90        | 12.00               | 14.91         | 15.00               | 99.2          |                     |               |              |
|                     |                      |         |                 |                     |               |              |                     |               |              |                     |               |                     |               |                     |               |              |
|                     |                      |         |                 |                     |               |              |                     |               |              |                     |               |                     |               |                     |               |              |
|                     |                      |         |                 |                     |               |              |                     |               |              |                     |               |                     |               |                     |               |              |
|                     |                      |         |                 |                     |               |              |                     |               |              |                     |               |                     |               |                     |               |              |
|                     |                      |         |                 |                     |               |              |                     |               |              |                     |               |                     |               |                     |               |              |
|                     |                      |         |                 |                     |               |              |                     |               |              |                     |               |                     |               |                     |               |              |
|                     |                      |         |                 |                     |               |              |                     |               |              |                     |               |                     |               |                     |               |              |



|                     | Mode                 | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |              |              |              |              |              |              |              |              |       |
|---------------------|----------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|
|                     |                      |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |              |              |              |              |              |              |              |              |       |
| 5.5GHz WLAN         | 802.11a 6Mbps        | 100     | 5500            | Not Required        | 11.00         | Not Required | Not Required        | 11.00         | Not Required | Not Required        | 11.00         | Not Required        | 11.00         | Not Required        | 14.00         | Not Required |              |              |              |              |              |              |              |              |       |
|                     |                      | 116     | 5580            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 124     | 5620            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 132     | 5660            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 144     | 5720            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     | 802.11n-HT20 MCS0    | 100     | 5500            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 116     | 5580            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 124     | 5620            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 132     | 5660            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 144     | 5720            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     | 802.11n-HT40 MCS0    | 102     | 5510            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 110     | 5550            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 126     | 5630            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 134     | 5670            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 142     | 5710            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     | 802.11ac-VHT20 MCS0  | 100     | 5500            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 116     | 5580            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 124     | 5620            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 132     | 5660            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 144     | 5720            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     | 802.11ac-VHT40 MCS0  | 102     | 5510            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 110     | 5550            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 126     | 5630            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 134     | 5670            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     |                      | 142     | 5710            |                     | 11.00         |              |                     | 11.00         |              |                     | 11.00         |                     | 14.00         |                     |               |              |              |              |              |              |              |              |              |              |       |
|                     | 802.11ac-VHT80 MCS0  | 106     | 5530            |                     | 11.00         |              |                     | 11.00         |              |                     | 10.70         |                     | 11.00         |                     | 10.90         |              | 11.00        | 13.81        | 14.00        | 99.40        |              |              |              |              |       |
|                     |                      | 122     | 5610            |                     | 11.00         |              |                     | 11.00         |              |                     | 10.70         |                     | 11.00         |                     | 10.70         |              | 11.00        | 13.71        | 14.00        |              |              |              |              |              |       |
|                     |                      | 138     | 5690            |                     | 11.00         |              |                     | 11.00         |              |                     | 10.90         |                     | 11.00         |                     | 11.00         |              | 11.00        | 13.96        | 14.00        |              |              |              |              |              |       |
|                     | 802.11ac-VHT160 MCS0 | 114     | 5570            |                     | 11.00         |              |                     | 11.00         |              |                     | 10.80         |                     | 11.00         |                     | 10.80         |              | 11.00        | 13.81        | 14.00        | 99.20        |              |              |              |              |       |
|                     | 802.11ax-HE20 MCS0   | 100     | 5500            |                     | 11.00         |              |                     | 11.00         |              |                     | Not Required  |                     | Not Required  |                     | Not Required  |              | Not Required | Not Required | Not Required | Not Required | Not Required | Not Required | Not Required | Not Required |       |
|                     |                      | 116     | 5580            |                     | 11.00         |              |                     | 11.00         |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              | 14.00 |
|                     |                      | 124     | 5620            |                     | 11.00         |              |                     | 11.00         |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              | 14.00 |
|                     |                      | 132     | 5660            |                     | 11.00         |              |                     | 11.00         |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              | 14.00 |
|                     |                      | 144     | 5720            |                     | 11.00         |              |                     | 11.00         |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              | 14.00 |
|                     | 802.11ax-HE40 MCS0   | 102     | 5510            |                     | 11.00         |              |                     | 11.00         |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              | 14.00 |
|                     |                      | 110     | 5550            |                     | 11.00         |              |                     | 11.00         |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              | 14.00 |
|                     |                      | 126     | 5630            |                     | 11.00         |              |                     | 11.00         |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              | 14.00 |
|                     |                      | 134     | 5670            |                     | 11.00         |              |                     | 11.00         |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              | 14.00 |
|                     |                      | 142     | 5710            |                     | 11.00         |              |                     | 11.00         |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              | 14.00 |
|                     | 802.11ax-HE80 MCS0   | 106     | 5530            |                     | 11.00         |              |                     | 11.00         |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              | 14.00 |
| 122                 |                      | 5610    | 11.00           | 11.00               | 14.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              |       |
| 138                 |                      | 5690    | 11.00           | 11.00               | 14.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              |       |
| 802.11ax-HE160 MCS0 | 114                  | 5570    | 11.00           | 11.00               | 14.00         |              |                     |               |              |                     |               |                     |               |                     |               |              |              |              |              |              |              |              |              |              |       |



|             | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|
|             |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
| 5.8GHz WLAN | 802.11a 6Mbps       | 149     | 5745            | Not Required        | 10.50         | Not Required | Not Required        | 10.50         | Not Required | Not Required        | 10.50         | Not Required        | 10.50         | Not Required        | 13.50         | Not Required |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             |                     | 157     | 5785            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             |                     | 165     | 5825            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             |                     | 157     | 5785            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             |                     | 165     | 5825            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              | 10.20        | 10.50 | 10.20        | 10.50 | 13.20        | 13.50 | 99.70        |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             |                     | 159     | 5795            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              | 10.20        | 10.50 | 10.30        | 10.50 | 13.26        | 13.50 |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              | Not Required | 10.50 | Not Required | 10.50 | Not Required | 10.50 | Not Required | 13.50 | Not Required |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             |                     | 157     | 5785            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             |                     | 165     | 5825            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              | Not Required | 10.50 | Not Required | 10.50 | Not Required | 10.50 | Not Required | 13.50 | Not Required |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             |                     | 159     | 5795            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              | 10.00        | 10.50 | 10.00        | 10.50 | 13.00        | 13.50 | 99.40        |       |              |              |       |              |       |              |       |              |       |              |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              | Not Required | 10.50 | Not Required | 10.50 | Not Required | 10.50 | Not Required | 13.50 | Not Required |              |       |              |       |              |       |              |       |              |
|             |                     | 157     | 5785            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             |                     | 165     | 5825            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              | Not Required | 10.50 | Not Required | 10.50 | Not Required | 10.50 | Not Required | 13.50 | Not Required |
|             |                     | 159     | 5795            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            |                     | 10.50         |              |                     |               |              |                     | 10.50         |                     | 13.50         |                     |               |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |              |       |              |       |              |       |              |       |              |



<6GHz WLAN indoor>

|                     | Mode               | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |
|---------------------|--------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     |                    |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| WiFi 6E             | 802.11a 6Mbps      | 1       | 5955            | Not Required        | 2.00          | Not Required | Not Required        | 2.00          | Not Required | Not Required        | 2.00          | Not Required        | 2.00          | Not Required        | 5.00          | Not Required |
|                     |                    | 57      | 6235            |                     | 2.50          |              |                     | 1.50          |              |                     | 2.50          |                     | 1.50          |                     | 5.00          |              |
|                     |                    | 113     | 6515            |                     | 2.00          |              |                     | 4.00          |              |                     | 2.00          |                     | 4.00          |                     | 6.00          |              |
|                     |                    | 173     | 6815            |                     | 3.00          |              |                     | 3.00          |              |                     | 3.00          |                     | 3.00          |                     | 6.00          |              |
|                     |                    | 233     | 7115            |                     | 2.00          |              |                     | 3.00          |              |                     | 2.00          |                     | 3.00          |                     | 5.50          |              |
|                     | 802.11ax-HE20 MCS0 | 1       | 5955            |                     | 5.50          |              |                     | 5.50          |              |                     | 5.50          |                     | 5.50          |                     | 8.50          |              |
|                     |                    | 57      | 6235            |                     | 6.00          |              |                     | 6.00          |              |                     | 6.00          |                     | 6.00          |                     | 9.00          |              |
|                     |                    | 113     | 6515            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |
|                     |                    | 173     | 6815            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |
|                     |                    | 233     | 7115            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |
|                     | 802.11ax-HE40 MCS0 | 3       | 5965            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|                     |                    | 59      | 6245            |                     | 9.00          |              |                     | 10.00         |              |                     | 9.00          |                     | 10.00         |                     | 12.00         |              |
|                     |                    | 107     | 6485            |                     | 9.00          |              |                     | 10.00         |              |                     | 9.00          |                     | 10.00         |                     | 13.00         |              |
|                     |                    | 171     | 6805            |                     | 9.00          |              |                     | 9.50          |              |                     | 9.00          |                     | 9.50          |                     | 12.25         |              |
|                     |                    | 227     | 7085            |                     | 10.50         |              |                     | 10.50         |              |                     | 10.50         |                     | 10.50         |                     | 13.50         |              |
|                     | 802.11ax-HE80 MCS0 | 7       | 5985            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|                     |                    | 71      | 6305            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|                     |                    | 119     | 6545            |                     | 10.00         |              |                     | 10.00         |              |                     | 10.00         |                     | 10.00         |                     | 13.00         |              |
|                     |                    | 167     | 6785            |                     | 9.00          |              |                     | 9.50          |              |                     | 9.00          |                     | 9.50          |                     | 12.25         |              |
|                     |                    | 215     | 7025            |                     | 11.00         |              |                     | 12.00         |              |                     | 11.00         |                     | 12.00         |                     | 14.50         |              |
| 802.11ax-HE160 MCS0 | 15                 | 6025    | 9.00            | 9.00                | 8.70          | 9.00         | 11.42               | 12.00         |              |                     |               |                     |               |                     |               |              |
|                     | 47                 | 6185    | 9.00            | 9.00                | 8.40          | 9.00         | 11.26               | 12.00         |              |                     |               |                     |               |                     |               |              |
|                     | 111                | 6505    | 10.00           | 10.00               | 9.10          | 10.00        | 12.47               | 13.00         |              |                     |               |                     |               |                     |               |              |
|                     | 143                | 6665    | 9.00            | 9.50                | 9.00          | 9.00         | 12.21               | 12.25         |              |                     |               |                     |               |                     |               |              |
|                     | 207                | 6985    | 11.00           | 12.00               | 10.80         | 11.00        | 14.17               | 14.50         |              |                     |               |                     |               |                     |               |              |

<6GHz WLAN standard>

|                     | Mode               | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |
|---------------------|--------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     |                    |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| WiFi 6E             | 802.11a 6Mbps      | 1       | 5955            | Not Required        | 9.00          | Not Required | Not Required        | 9.00          | Not Required | Not Required        | 9.00          | Not Required        | 9.00          | Not Required        | 12.00         | Not Required |
|                     |                    | 57      | 6235            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|                     |                    | 113     | 6515            |                     | 2.00          |              |                     | 4.00          |              |                     | 2.00          |                     | 4.00          |                     | 6.00          |              |
|                     |                    | 173     | 6815            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|                     |                    | 233     | 7115            |                     | 2.00          |              |                     | 3.00          |              |                     | 2.00          |                     | 3.00          |                     | 5.50          |              |
|                     | 802.11ax-HE20 MCS0 | 1       | 5955            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|                     |                    | 57      | 6235            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|                     |                    | 113     | 6515            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |
|                     |                    | 173     | 6815            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|                     |                    | 233     | 7115            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |
|                     | 802.11ax-HE40 MCS0 | 3       | 5965            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|                     |                    | 59      | 6245            |                     | 9.00          |              |                     | 10.00         |              |                     | 9.00          |                     | 10.00         |                     | 12.00         |              |
|                     |                    | 107     | 6485            |                     | 9.00          |              |                     | 10.00         |              |                     | 9.00          |                     | 10.00         |                     | 13.00         |              |
|                     |                    | 171     | 6805            |                     | 9.00          |              |                     | 9.50          |              |                     | 9.00          |                     | 9.50          |                     | 12.25         |              |
|                     |                    | 227     | 7085            |                     | 10.50         |              |                     | 10.50         |              |                     | 10.50         |                     | 10.50         |                     | 13.50         |              |
|                     | 802.11ax-HE80 MCS0 | 7       | 5985            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|                     |                    | 71      | 6305            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |
|                     |                    | 119     | 6545            |                     | 10.00         |              |                     | 10.00         |              |                     | 10.00         |                     | 10.00         |                     | 13.00         |              |
|                     |                    | 167     | 6785            |                     | 9.00          |              |                     | 9.50          |              |                     | 9.00          |                     | 9.50          |                     | 12.25         |              |
|                     |                    | 215     | 7025            |                     | 11.00         |              |                     | 12.00         |              |                     | 11.00         |                     | 12.00         |                     | 14.50         |              |
| 802.11ax-HE160 MCS0 | 15                 | 6025    | 9.00            | 9.00                | 8.70          | 9.00         | 11.42               | 12.00         |              |                     |               |                     |               |                     |               |              |
|                     | 47                 | 6185    | 9.00            | 9.00                | 8.40          | 9.00         | 11.26               | 12.00         |              |                     |               |                     |               |                     |               |              |
|                     | 111                | 6505    | 10.00           | 10.00               | 9.10          | 10.00        | 12.47               | 13.00         |              |                     |               |                     |               |                     |               |              |
|                     | 143                | 6665    | 9.00            | 9.50                | 9.00          | 9.00         | 12.21               | 12.25         |              |                     |               |                     |               |                     |               |              |
|                     | 207                | 6985    | 11.00           | 12.00               | 10.80         | 11.00        | 14.17               | 14.50         |              |                     |               |                     |               |                     |               |              |





P-Sensor On DBS

|             | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |       |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|-------|
|             |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 2.4GHz WLAN | 802.11b 1Mbps       | 1       | 2412            | 15.00               | 15.00         | 98.20        | 14.50               | 15.00         | 98.20        | 14.70               | 15.00         | 14.60               | 15.00         | 17.66               | 18.00         | 98.20        |       |
|             |                     | 6       | 2437            | 14.90               | 15.00         |              | 14.50               | 15.00         |              | 14.70               | 15.00         | 14.60               | 15.00         | 17.66               | 18.00         |              |       |
|             |                     | 11      | 2462            | 14.70               | 15.00         |              | 14.30               | 15.00         |              | 14.40               | 15.00         | 14.50               | 15.00         | 17.46               | 18.00         |              |       |
|             | 802.11g 6Mbps       | 1       | 2412            | Not Required        | 15.00         | Not Required | Not Required        | 15.00         | Not Required | Not Required        | 15.00         | Not Required        | 15.00         | Not Required        | 15.00         | Not Required | 18.00 |
|             |                     | 6       | 2437            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 11      | 2462            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             | 802.11n-HT20 MCS0   | 1       | 2412            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 6       | 2437            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 11      | 2462            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             | 802.11n-HT40 MCS0   | 3       | 2422            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 6       | 2437            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 9       | 2452            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             | 802.11ac-VHT20 MCS0 | 1       | 2412            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 6       | 2437            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 11      | 2462            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             | 802.11ac-VHT40 MCS0 | 3       | 2422            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 6       | 2437            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 9       | 2452            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             | 802.11ax-HE20 MCS0  | 1       | 2412            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 6       | 2437            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 11      | 2462            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             | 802.11ax-HE40 MCS0  | 3       | 2422            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 6       | 2437            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |
|             |                     | 9       | 2452            |                     | 15.00         |              |                     | 15.00         |              |                     | 15.00         |                     | 18.00         |                     |               |              |       |



|                    | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |
|--------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                    |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN        | 802.11a 6Mbps       | 36      | 5180            | Not Required        | 9.50          | Not Required | Not Required        | 9.50          | Not Required | Not Required        | 9.5           | Not Required        | 9.5           | Not Required        | 12.5          | Not Required |
|                    |                     | 40      | 5200            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 44      | 5220            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 48      | 5240            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    | 802.11n-HT20 MCS0   | 36      | 5180            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 40      | 5200            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 44      | 5220            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 48      | 5240            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    | 802.11n-HT40 MCS0   | 38      | 5190            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 46      | 5230            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    | 802.11ac-VHT20 MCS0 | 36      | 5180            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 40      | 5200            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 44      | 5220            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 48      | 5240            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    | 802.11ac-VHT40 MCS0 | 38      | 5190            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 46      | 5230            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    | 802.11ac-VHT80 MCS0 | 42      | 5210            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    | 802.11ax-HE20 MCS0  | 36      | 5180            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 40      | 5200            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
|                    |                     | 44      | 5220            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 9.5           |                     | 12.5          |              |
| 48                 |                     | 5240    | 9.50            | 9.50                | 9.5           | 9.5          | 12.5                |               |              |                     |               |                     |               |                     |               |              |
| 802.11ax-HE40 MCS0 | 38                  | 5190    | 9.50            | 9.50                | 9.5           | 9.5          | 12.5                |               |              |                     |               |                     |               |                     |               |              |
|                    | 46                  | 5230    | 9.50            | 9.50                | 9.5           | 9.5          | 12.5                |               |              |                     |               |                     |               |                     |               |              |
| 802.11ax-HE80 MCS0 | 42                  | 5210    | 9.50            | 9.50                | 9.5           | 9.5          | 12.5                |               |              |                     |               |                     |               |                     |               |              |



|                     | Mode                 | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |     |              |              |      |              |     |              |      |              |
|---------------------|----------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|-----|--------------|--------------|------|--------------|-----|--------------|------|--------------|
|                     |                      |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |     |              |              |      |              |     |              |      |              |
| 5.3GHz WLAN         | 802.11a 6Mbps        | 52      | 5260            | Not Required        | 9.50          | Not Required | Not Required        | 9.50          | Not Required | Not Required        | 9.5           | Not Required        | 9.5           | Not Required        | 12.5          | Not Required |     |              |              |      |              |     |              |      |              |
|                     |                      | 56      | 5280            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     |                      | 60      | 5300            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     |                      | 64      | 5320            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     | 802.11n-HT20 MCS0    | 52      | 5260            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     |                      | 56      | 5280            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     |                      | 60      | 5300            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     | 802.11n-HT40 MCS0    | 54      | 5270            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     |                      | 62      | 5310            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     | 802.11ac-VHT20 MCS0  | 52      | 5260            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     |                      | 56      | 5280            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     |                      | 60      | 5300            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     | 802.11ac-VHT40 MCS0  | 54      | 5270            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     |                      | 62      | 5310            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     | 802.11ac-VHT80 MCS0  | 58      | 5290            |                     | 9.50          |              |                     | 9.50          |              |                     | 9.5           |                     | 12.5          |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     | 802.11ac-VHT160 MCS0 | 50      | 5250            |                     | 9.5           |              |                     | 9.5           |              |                     | 9.3           |                     | 9.5           |                     | 9.3           |              | 9.5 | 12.3         | 12.5         | 99.2 |              |     |              |      |              |
|                     | 802.11ax-HE20 MCS0   | 52      | 5260            |                     | 9.50          |              |                     | 9.50          |              |                     | Not Required  |                     | Not Required  |                     | 9.5           |              | 9.5 | Not Required | Not Required | 9.5  | Not Required | 9.5 | Not Required | 12.5 | Not Required |
|                     |                      | 56      | 5280            |                     | 9.50          |              |                     | 9.50          |              |                     |               |                     |               |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     |                      | 60      | 5300            |                     | 9.50          |              |                     | 9.50          |              |                     |               |                     |               |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     |                      | 64      | 5320            |                     | 9.50          |              |                     | 9.50          |              |                     |               |                     |               |                     |               |              |     |              |              |      |              |     |              |      |              |
| 802.11ax-HE40 MCS0  | 54                   | 5270    | 9.50            | 9.50                | 9.5           | 12.5         |                     |               |              |                     |               |                     |               |                     |               |              |     |              |              |      |              |     |              |      |              |
|                     | 62                   | 5310    | 9.50            | 9.50                | 9.5           | 12.5         |                     |               |              |                     |               |                     |               |                     |               |              |     |              |              |      |              |     |              |      |              |
| 802.11ax-HE80 MCS0  | 58                   | 5290    | 9.50            | 9.50                | 9.5           | 12.5         |                     |               |              |                     |               |                     |               |                     |               |              |     |              |              |      |              |     |              |      |              |
| 802.11ax-HE160 MCS0 | 50                   | 5250    | 9.5             | 9.5                 | 9.5           | 12.5         |                     |               |              |                     |               |                     |               |                     |               |              |     |              |              |      |              |     |              |      |              |



| 5.5GHz WLAN | Mode                | Channel              | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |       |      |      |       |       |
|-------------|---------------------|----------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|-------|------|------|-------|-------|
|             |                     |                      |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |      |      |       |       |
| 5.5GHz WLAN | 802.11a 6Mbps       | 100                  | 5500            | Not Required        | 8.50          | Not Required | Not Required        | 8.50          | Not Required | Not Required        | 8.50          | Not Required        | 8.50          | Not Required        | Not Required  | Not Required | 11.50 |      |      |       |       |
|             |                     | 116                  | 5580            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 124                  | 5620            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 132                  | 5660            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 144                  | 5720            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             | 802.11n-HT20 MCS0   | 100                  | 5500            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 116                  | 5580            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 124                  | 5620            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 132                  | 5660            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 144                  | 5720            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             | 802.11n-HT40 MCS0   | 102                  | 5510            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 110                  | 5550            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 126                  | 5630            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 134                  | 5670            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             | 802.11ac-VHT20 MCS0 | 100                  | 5500            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 116                  | 5580            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 124                  | 5620            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 132                  | 5660            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 144                  | 5720            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             | 802.11ac-VHT40 MCS0 | 102                  | 5510            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 110                  | 5550            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 126                  | 5630            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 134                  | 5670            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             | 802.11ac-VHT80 MCS0 | 106                  | 5530            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 122                  | 5610            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 138                  | 5690            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 802.11ac-VHT160 MCS0 | 114             |                     | 5570          |              |                     | 8.50          |              |                     | 8.50          |                     | 8.30          |                     |               |              | 8.50  | 8.40 | 8.50 | 11.36 | 11.50 |
|             | 802.11ax-HE20 MCS0  | 100                  | 5500            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 116                  | 5580            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 124                  | 5620            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 132                  | 5660            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 144                  | 5720            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             | 802.11ax-HE40 MCS0  | 102                  | 5510            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 110                  | 5550            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 126                  | 5630            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 134                  | 5670            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             | 802.11ax-HE80 MCS0  | 106                  | 5530            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 122                  | 5610            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             |                     | 138                  | 5690            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |
|             | 802.11ax-HE160 MCS0 | 114                  | 5570            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |       |      |      |       |       |



|             | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |      |              |       |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|------|--------------|-------|--------------|
|             |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |      |              |       |              |
| 5.8GHz WLAN | 802.11a 6Mbps       | 149     | 5745            | Not Required        | 8.50          | Not Required | Not Required        | 8.50          | Not Required | Not Required        | 8.50          | Not Required        | 8.50          | Not Required        | 11.50         | Not Required |      |              |       |              |
|             |                     | 157     | 5785            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             |                     | 165     | 5825            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             |                     | 157     | 5785            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             |                     | 165     | 5825            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             |                     | 159     | 5795            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             |                     | 157     | 5785            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             |                     | 165     | 5825            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             |                     | 159     | 5795            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.50          |                     | 11.50         |                     |               |              |      |              |       |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            |                     | 8.50          |              |                     | 8.50          |              |                     | 8.10          |                     | 8.50          |                     | 8.30          |              | 8.50 | 11.20        | 11.50 | 99.40        |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            |                     | 8.50          |              |                     | 8.50          |              |                     | Not Required  |                     | 8.50          |                     | Not Required  |              | 8.50 | Not Required | 11.50 | Not Required |
|             |                     | 157     | 5785            |                     | 8.50          |              |                     | 8.50          |              | 11.50               |               |                     |               |                     |               |              |      |              |       |              |
|             |                     | 165     | 5825            |                     | 8.50          |              |                     | 8.50          |              | 11.50               |               |                     |               |                     |               |              |      |              |       |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            |                     | 8.50          |              |                     | 8.50          |              | 8.50                | 11.50         |                     |               |                     |               |              |      |              |       |              |
|             |                     | 159     | 5795            |                     | 8.50          |              |                     | 8.50          |              | 8.50                | 11.50         |                     |               |                     |               |              |      |              |       |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            |                     | 8.50          |              |                     | 8.50          |              | 8.50                | 11.50         |                     |               |                     |               |              |      |              |       |              |



<6GHz WLAN indoor>

|         | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |      |       |       |
|---------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|------|-------|-------|
|         |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |      |       |       |
| WiFi 6E | 802.11a 6Mbps       | 1       | 5955            | Not Required        | 2.00          | Not Required | Not Required        | 2.00          | Not Required | Not Required        | 2.00          | Not Required        | 2.00          | Not Required        | 5.00          | Not Required |      |       |       |
|         |                     | 57      | 6235            |                     | 2.50          |              |                     | 1.50          |              |                     | 2.50          |                     | 1.50          |                     | 5.00          |              |      |       |       |
|         |                     | 113     | 6515            |                     | 2.00          |              |                     | 4.00          |              |                     | 2.00          |                     | 4.00          |                     | 6.00          |              |      |       |       |
|         |                     | 173     | 6815            |                     | 3.00          |              |                     | 3.00          |              |                     | 3.00          |                     | 3.00          |                     | 6.00          |              |      |       |       |
|         |                     | 233     | 7115            |                     | 2.00          |              |                     | 3.00          |              |                     | 2.00          |                     | 3.00          |                     | 5.50          |              |      |       |       |
|         | 802.11ax-HE20 MCS0  | 1       | 5955            |                     | 5.50          |              |                     | 5.50          |              |                     | 5.50          |                     | 5.50          |                     | 8.50          |              |      |       |       |
|         |                     | 57      | 6235            |                     | 6.00          |              |                     | 6.00          |              |                     | 6.00          |                     | 6.00          |                     | 9.00          |              |      |       |       |
|         |                     | 113     | 6515            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |      |       |       |
|         |                     | 173     | 6815            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |      |       |       |
|         |                     | 233     | 7115            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |      |       |       |
|         | 802.11ax-HE40 MCS0  | 3       | 5965            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 59      | 6245            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 107     | 6485            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 171     | 6805            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 227     | 7085            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         | 802.11ax-HE80 MCS0  | 7       | 5985            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 71      | 6305            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 119     | 6545            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 167     | 6785            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 215     | 7025            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         | 802.11ax-HE160 MCS0 | 15      | 6025            |                     | 9.00          |              |                     | 9.00          |              |                     | 8.70          |                     | 9.00          |                     | 8.50          |              | 9.00 | 11.42 | 12.00 |
|         |                     | 47      | 6185            |                     | 9.00          |              |                     | 9.00          |              |                     | 8.40          |                     | 9.00          |                     | 8.40          |              | 9.00 | 11.26 | 12.00 |
|         |                     | 111     | 6505            |                     | 9.00          |              |                     | 9.00          |              |                     | 8.80          |                     | 9.00          |                     | 9.00          |              | 9.00 | 11.82 | 12.00 |
|         |                     | 143     | 6665            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 9.50          |              | 9.50 | 12.21 | 12.25 |
|         |                     | 207     | 6985            |                     | 9.00          |              |                     | 9.00          |              |                     | 8.70          |                     | 9.00          |                     | 9.30          |              | 9.50 | 12.02 | 12.25 |

<6GHz WLAN standard>

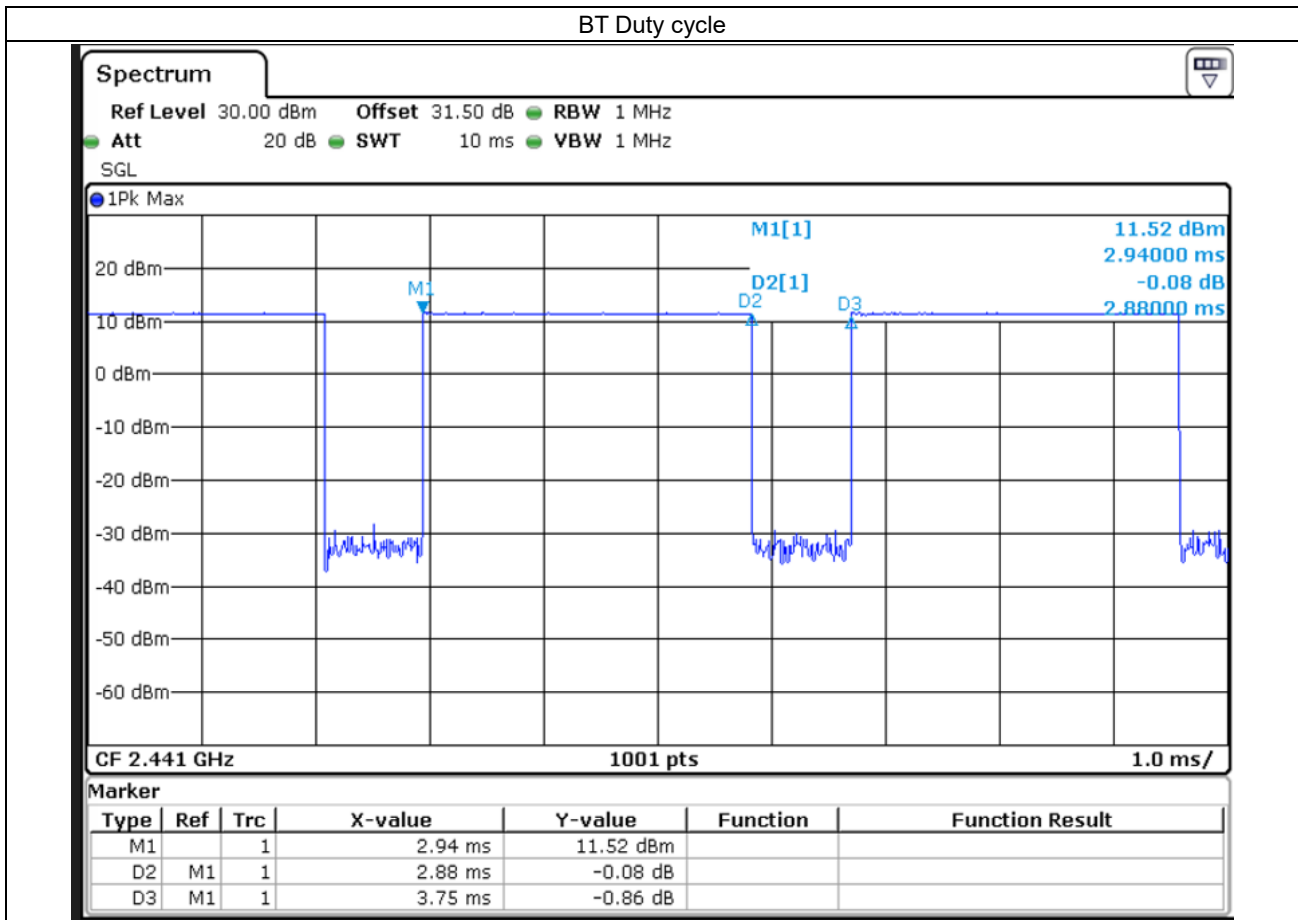
|         | Mode                | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              | Ant 7+8 (7)         |               | Ant 7+8 (8)         |               | Ant 7+8             |               |              |      |       |       |
|---------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|------|-------|-------|
|         |                     |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |      |       |       |
| WiFi 6E | 802.11a 6Mbps       | 1       | 5955            | Not Required        | 9.00          | Not Required | Not Required        | 9.00          | Not Required | Not Required        | 9.00          | Not Required        | 9.00          | Not Required        | 12.00         | Not Required |      |       |       |
|         |                     | 57      | 6235            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 113     | 6515            |                     | 2.00          |              |                     | 4.00          |              |                     | 2.00          |                     | 4.00          |                     | 6.00          |              |      |       |       |
|         |                     | 173     | 6815            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 233     | 7115            |                     | 2.00          |              |                     | 3.00          |              |                     | 2.00          |                     | 3.00          |                     | 5.50          |              |      |       |       |
|         | 802.11ax-HE20 MCS0  | 1       | 5955            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 57      | 6235            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 113     | 6515            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |      |       |       |
|         |                     | 173     | 6815            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 233     | 7115            |                     | 6.00          |              |                     | 7.00          |              |                     | 6.00          |                     | 7.00          |                     | 9.50          |              |      |       |       |
|         | 802.11ax-HE40 MCS0  | 3       | 5965            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 59      | 6245            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 107     | 6485            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 171     | 6805            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 227     | 7085            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         | 802.11ax-HE80 MCS0  | 7       | 5985            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 71      | 6305            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 119     | 6545            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 167     | 6785            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         |                     | 215     | 7025            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 12.00         |              |      |       |       |
|         | 802.11ax-HE160 MCS0 | 15      | 6025            |                     | 9.00          |              |                     | 9.00          |              |                     | 8.70          |                     | 9.00          |                     | 8.50          |              | 9.00 | 11.42 | 12.00 |
|         |                     | 47      | 6185            |                     | 9.00          |              |                     | 9.00          |              |                     | 8.40          |                     | 9.00          |                     | 8.40          |              | 9.00 | 11.26 | 12.00 |
|         |                     | 111     | 6505            |                     | 9.00          |              |                     | 9.00          |              |                     | 8.80          |                     | 9.00          |                     | 9.00          |              | 9.00 | 11.82 | 12.00 |
|         |                     | 143     | 6665            |                     | 9.00          |              |                     | 9.00          |              |                     | 9.00          |                     | 9.00          |                     | 9.50          |              | 9.50 | 12.21 | 12.25 |
|         |                     | 207     | 6985            |                     | 9.00          |              |                     | 9.00          |              |                     | 8.70          |                     | 9.00          |                     | 9.30          |              | 9.50 | 12.02 | 12.25 |

**<2.4GHz Bluetooth>**

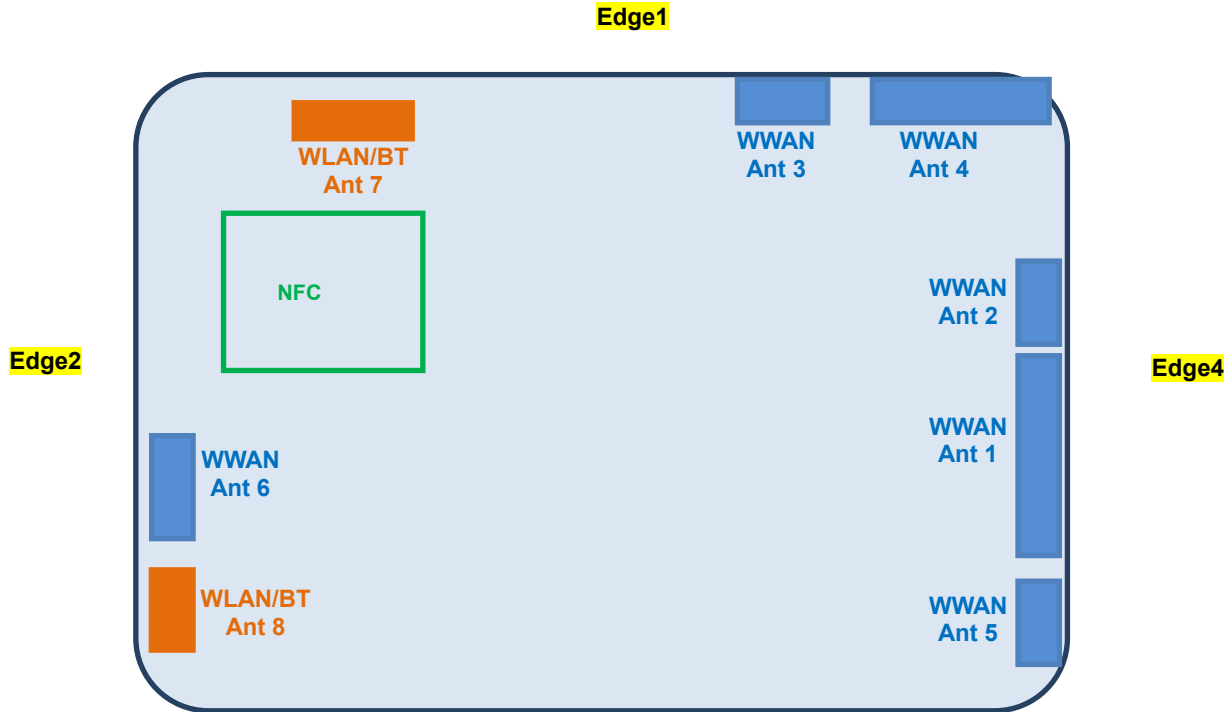
|           | Mode           | Channel | Frequency (MHz) | Ant 7               |               |              | Ant 8               |               |              |
|-----------|----------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|
|           |                |         |                 | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| Bluetooth | BR / EDR 1Mbps | 0       | 2402            | 5.49                | 6.00          | 76.80        | 4.86                | 5.00          | 76.80        |
|           |                | 39      | 2441            | 5.67                | 6.00          |              | 4.76                | 5.00          |              |
|           |                | 78      | 2480            | 4.42                | 6.00          |              | 4.95                | 5.00          |              |
|           | BR / EDR 2Mbps | 0       | 2402            | 3.12                | 4.00          | 76.80        | 5.47                | 6.00          | 76.80        |
|           |                | 39      | 2441            | 3.60                | 4.00          |              | 5.45                | 6.00          |              |
|           |                | 78      | 2480            | 2.49                | 4.00          |              | 5.52                | 6.00          |              |
|           | BR / EDR 3Mbps | 0       | 2402            | 3.47                | 4.00          | 77.07        | 5.52                | 6.00          | 77.07        |
|           |                | 39      | 2441            | 3.62                | 4.00          |              | 5.36                | 6.00          |              |
|           |                | 78      | 2480            | 2.64                | 4.00          |              | 5.70                | 6.00          |              |
|           | LE 1Mbps       | 0       | 2402            | 4.10                | 4.50          | 62.30        | 3.20                | 4.00          | 62.30        |
|           |                | 19      | 2440            | 4.40                | 4.50          |              | 3.00                | 4.00          |              |
|           |                | 39      | 2480            | 2.80                | 4.50          |              | 3.20                | 4.00          |              |
| LE 2Mbps  | 0              | 2402    | 4.00            | 4.50                | 32.80         | 3.10         | 4.00                | 32.80         |              |
|           | 19             | 2440    | 4.40            | 4.50                |               | 3.00         | 4.00                |               |              |
|           | 39             | 2480    | 2.80            | 4.50                |               | 3.20         | 4.00                |               |              |

**General Note:**

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 76.8% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.



### 16. Antenna Location



Edge3

**Back View**

The separation distance for antenna to edge :

| Antenna             | To Edge1 (mm) | To Edge2 (mm) | To Edge3 (mm) | To Edge4 (mm) |
|---------------------|---------------|---------------|---------------|---------------|
| WWAN Antenna 1      | 65            | 261           | 82            | 5             |
| WWAN Antenna 2      | 48            | 261           | 128           | 5             |
| WWAN Antenna 3      | 5             | 195           | 174           | 48            |
| WWAN Antenna 4      | 5             | 213           | 174           | 5             |
| WWAN Antenna 5      | 144           | 261           | 28            | 5             |
| WWAN Antenna 6      | 95            | 5             | 52            | 256           |
| WLAN/BT Antenna 7   | 5             | 30            | 174           | 195           |
| WLAN/BT Antenna 8   | 144           | 5             | 15            | 256           |
| WLAN/BT Antenna 7+8 | 5             | 5             | 15            | 195           |
| NFC                 | < 25 mm       | < 25 mm       | > 25mm        | > 25mm        |



**<SAR test exclusion table>**

**General Note:**

1. The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
2. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
3. Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
4. Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
5. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:
  - $[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot \sqrt{f(GHz)} \leq 3.0$  for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
    - f(GHz) is the RF channel transmit frequency in GHz
    - Power and distance are rounded to the nearest mW and mm before calculation
    - The result is rounded to one decimal place for comparison
6. Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
  - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·( f(MHz)/150)] mW, at 100 MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz

**ANT 1**

| Exposure Position       | Wireless Interface         | WCDMA Band V | WCDMA Band IV | WCDMA Band II | LTE Band 71 / FR1 n71 | LTE Band 12 / FR1 n12 | LTE Band 13 / FR1 n13 | LTE Band 14 / FR1 n14 | LTE Band 17 | LTE Band 5 / FR1 n5 | LTE Band 26 / FR1 n26 | LTE Band 4 | LTE Band 66 / FR1 n66 | LTE Band 2 / FR1 n2 | LTE Band 25 / FR1 n25 | FR1 n5 | FR1 n26 | LTE Band 38 | LTE Band 41 | LTE Band 42 | LTE Band 48 | LTE Band n77 | LTE Band n78 |
|-------------------------|----------------------------|--------------|---------------|---------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------|---------------------|-----------------------|------------|-----------------------|---------------------|-----------------------|--------|---------|-------------|-------------|-------------|-------------|--------------|--------------|
|                         | Calculated Frequency (MHz) | 846          | 1750          | 1907          | 695                   | 715                   | 784                   | 795                   | 713         | 848                 | 848                   | 1754       | 1779                  | 1909                | 1914                  | 848    | 848     | 2617        | 2687        | 3597        | 3697        | 3650         | 3650         |
| Maximum power (dBm)     | 25.0                       | 24.5         | 24.5          | 24.5          | 24.5                  | 24.5                  | 24.5                  | 24.5                  | 24.5        | 25.5                | 25.5                  | 24.5       | 24.5                  | 24.5                | 24.5                  | 24.5   | 24.5    | 27.0        | 24.5        | 22.0        | 21.7        | 27.0         |              |
| Maximum rated power(mW) | 316.23                     | 281.84       | 281.84        | 281.84        | 281.84                | 281.84                | 281.84                | 281.84                | 281.84      | 354.81              | 354.81                | 281.84     | 281.84                | 281.84              | 281.84                | 281.84 | 281.84  | 501.19      | 281.84      | 158.49      | 147.91      | 501.19       |              |
| Bottom Face             | Separation distance(mm)    | 5.0          |               |               |                       |                       |                       |                       |             |                     |                       |            |                       |                     |                       |        |         |             |             |             |             |              |              |
|                         | exclusion threshold        | 58.2         | 74.6          | 77.8          | 47.0                  | 47.7                  | 49.9                  | 50.3                  | 47.6        | 65.4                | 65.4                  | 74.7       | 75.2                  | 77.9                | 78.0                  | 51.9   | 51.9    | 91.2        | 164.3       | 106.9       | 61.0        | 56.5         | 191.5        |
|                         | Testing required?          | Yes          | Yes           | Yes           | Yes                   | Yes                   | Yes                   | Yes                   | Yes         | Yes                 | Yes                   | Yes        | Yes                   | Yes                 | Yes                   | Yes    | Yes     | Yes         | Yes         | Yes         | Yes         | Yes          | Yes          |
| Edge 1                  | Separation distance(mm)    | 65.0         |               |               |                       |                       |                       |                       |             |                     |                       |            |                       |                     |                       |        |         |             |             |             |             |              |              |
|                         | exclusion threshold        | 248.0        | 263.0         | 259.0         | 249.0                 | 249.0                 | 248.0                 | 248.0                 | 249.0       | 248.0               | 248.0                 | 263.0      | 262.0                 | 259.0               | 258.0                 | 313.0  | 313.0   | 243.0       | 242.0       | 229.0       | 228.0       | 229.0        | 229.0        |
|                         | Testing required?          | Yes          | Yes           | Yes           | Yes                   | Yes                   | Yes                   | Yes                   | Yes         | Yes                 | Yes                   | Yes        | Yes                   | Yes                 | Yes                   | No     | No      | Yes         | Yes         | Yes         | No          | No           | Yes          |
| Edge 2                  | Separation distance(mm)    | 261.0        |               |               |                       |                       |                       |                       |             |                     |                       |            |                       |                     |                       |        |         |             |             |             |             |              |              |
|                         | exclusion threshold        | 1353.0       | 2223.0        | 2219.0        | 1158.0                | 1183.0                | 1272.0                | 1287.0                | 1181.0      | 1356.0              | 1356.0                | 2223.0     | 2222.0                | 2219.0              | 2218.0                | 2273.0 | 2273.0  | 2203.0      | 2202.0      | 2189.0      | 2188.0      | 2189.0       | 2189.0       |
|                         | Testing required?          | No           | No            | No            | No                    | No                    | No                    | No                    | No          | No                  | No                    | No         | No                    | No                  | No                    | No     | No      | No          | No          | No          | No          | No           | No           |
| Edge 3                  | Separation distance(mm)    | 82.0         |               |               |                       |                       |                       |                       |             |                     |                       |            |                       |                     |                       |        |         |             |             |             |             |              |              |
|                         | exclusion threshold        | 344.0        | 433.0         | 429.0         | 328.0                 | 330.0                 | 337.0                 | 338.0                 | 330.0       | 344.0               | 344.0                 | 433.0      | 432.0                 | 429.0               | 428.0                 | 483.0  | 483.0   | 413.0       | 412.0       | 399.0       | 398.0       | 399.0        | 399.0        |
|                         | Testing required?          | No           | No            | No            | No                    | No                    | No                    | No                    | Yes         | Yes                 | No                    | No         | No                    | No                  | No                    | No     | No      | Yes         | No          | No          | No          | Yes          |              |
| Edge 4                  | Separation distance(mm)    | 5.0          |               |               |                       |                       |                       |                       |             |                     |                       |            |                       |                     |                       |        |         |             |             |             |             |              |              |
|                         | exclusion threshold        | 58.2         | 74.6          | 77.8          | 47.0                  | 47.7                  | 49.9                  | 50.3                  | 47.6        | 65.4                | 65.4                  | 74.7       | 75.2                  | 77.9                | 78.0                  | 51.9   | 51.9    | 91.2        | 164.3       | 106.9       | 61.0        | 56.5         | 191.5        |
|                         | Testing required?          | Yes          | Yes           | Yes           | Yes                   | Yes                   | Yes                   | Yes                   | Yes         | Yes                 | Yes                   | Yes        | Yes                   | Yes                 | Yes                   | Yes    | Yes     | Yes         | Yes         | Yes         | Yes         | Yes          | Yes          |



**ANT 2**

| Exposure Position | Wireless Interface         | LTE Band 7 / FR1 n7 | LTE Band 38 / FR1 n38 | LTE Band 41 / FR1 n41 | FR1 n77     | FR1 n78     |
|-------------------|----------------------------|---------------------|-----------------------|-----------------------|-------------|-------------|
|                   | Calculated Frequency (MHz) | 2567                | 2617                  | <b>2687</b>           | <b>3980</b> | <b>3800</b> |
|                   | Maximum power (dBm)        | 14.7                | 16.7                  | 18.3                  | 10.5        | 10.5        |
|                   | Maximum rated power(mW)    | 29.51               | 46.77                 | 67.61                 | 11.22       | 11.22       |
| Bottom Face       | Separation distance(mm)    | 5.0                 |                       |                       |             |             |
|                   | exclusion threshold        | 90.3                | 91.2                  | 164.3                 | 191.5       | 191.5       |
|                   | Testing required?          | <b>Yes</b>          | <b>Yes</b>            | <b>Yes</b>            | <b>Yes</b>  | <b>Yes</b>  |
| Edge 1            | Separation distance(mm)    | 48.0                |                       |                       |             |             |
|                   | exclusion threshold        | 9.4                 | 9.5                   | 17.1                  | 20.0        | 20.0        |
|                   | Testing required?          | <b>Yes</b>          | <b>Yes</b>            | <b>Yes</b>            | <b>Yes</b>  | <b>Yes</b>  |
| Edge 2            | Separation distance(mm)    | 261.0               |                       |                       |             |             |
|                   | exclusion threshold        | 2204.0              | 2203.0                | 2202.0                | 2189.0      | 2189.0      |
|                   | Testing required?          | No                  | No                    | No                    | No          | No          |
| Edge 3            | Separation distance(mm)    | 128.0               |                       |                       |             |             |
|                   | exclusion threshold        | 874.0               | 873.0                 | 872.0                 | 859.0       | 859.0       |
|                   | Testing required?          | No                  | No                    | No                    | No          | No          |
| Edge 4            | Separation distance(mm)    | 5.0                 |                       |                       |             |             |
|                   | exclusion threshold        | 90.3                | 91.2                  | 92.4                  | 191.5       | 191.5       |
|                   | Testing required?          | <b>Yes</b>          | <b>Yes</b>            | <b>Yes</b>            | <b>Yes</b>  | <b>Yes</b>  |

**ANT 3**

| Exposure Position | Wireless Interface         | LTE Band 30 / FR1 n30 | LTE Band 7 / FR1 n7 | LTE Band 38 / FR1 n38 | LTE Band 41 / FR1 n41 | LTE Band 48 / FR1 n48 | FR1 n77     | FR1 n78     |
|-------------------|----------------------------|-----------------------|---------------------|-----------------------|-----------------------|-----------------------|-------------|-------------|
|                   | Calculated Frequency (MHz) | 2312                  | 2567                | 2617                  | <b>2687</b>           | <b>3697</b>           | <b>3980</b> | <b>3800</b> |
|                   | Maximum power (dBm)        | 23.0                  | 25.0                | 24.5                  | 27.0                  | 22.0                  | 21.7        | 21.7        |
|                   | Maximum rated power(mW)    | 199.53                | 316.23              | 281.84                | 501.19                | 158.49                | 147.91      | 147.91      |
| Bottom Face       | Separation distance(mm)    | 5.0                   |                     |                       |                       |                       |             |             |
|                   | exclusion threshold        | 60.7                  | 90.3                | 91.2                  | 92.4                  | 61.0                  | 191.5       | 191.5       |
|                   | Testing required?          | <b>Yes</b>            | <b>Yes</b>          | <b>Yes</b>            | <b>Yes</b>            | <b>Yes</b>            | <b>Yes</b>  | <b>Yes</b>  |
| Edge 1            | Separation distance(mm)    | 5.0                   |                     |                       |                       |                       |             |             |
|                   | exclusion threshold        | 60.7                  | 90.3                | 91.2                  | 92.4                  | 61.0                  | 191.5       | 191.5       |
|                   | Testing required?          | <b>Yes</b>            | <b>Yes</b>          | <b>Yes</b>            | <b>Yes</b>            | <b>Yes</b>            | <b>Yes</b>  | <b>Yes</b>  |
| Edge 2            | Separation distance(mm)    | 195.0                 |                     |                       |                       |                       |             |             |
|                   | exclusion threshold        | 1549.0                | 1544.0              | 1543.0                | 1542.0                | 1528.0                | 1529.0      | 1529.0      |
|                   | Testing required?          | No                    | No                  | No                    | No                    | No                    | No          | No          |
| Edge 3            | Separation distance(mm)    | 174.0                 |                     |                       |                       |                       |             |             |
|                   | exclusion threshold        | 1339.0                | 1334.0              | 1333.0                | 1332.0                | 1318.0                | 1319.0      | 1319.0      |
|                   | Testing required?          | No                    | No                  | No                    | No                    | No                    | No          | No          |
| Edge 4            | Separation distance(mm)    | 48.0                  |                     |                       |                       |                       |             |             |
|                   | exclusion threshold        | 6.3                   | 9.4                 | 9.5                   | 9.6                   | 6.4                   | 20.0        | 20.0        |
|                   | Testing required?          | <b>Yes</b>            | <b>Yes</b>          | <b>Yes</b>            | <b>Yes</b>            | <b>Yes</b>            | <b>Yes</b>  | <b>Yes</b>  |



**ANT 4**

| Exposure Position | Wireless Interface         | LTE Band 4 | LTE Band 66 / FR1 n66 | LTE Band 2 / FR1 n2 | LTE Band 25 / FR1 n25 |
|-------------------|----------------------------|------------|-----------------------|---------------------|-----------------------|
|                   | Calculated Frequency (MHz) | 1754       | 1779                  | 1909                | 1914                  |
|                   | Maximum power (dBm)        | 24.5       | 24.5                  | 24.5                | 24.5                  |
|                   | Maximum rated power(mW)    | 281.84     | 281.84                | 281.84              | 281.84                |
| Bottom Face       | Separation distance(mm)    | 5.0        |                       |                     |                       |
|                   | exclusion threshold        | 74.7       | 75.2                  | 77.9                | 78.0                  |
|                   | Testing required?          | Yes        | Yes                   | Yes                 | Yes                   |
| Edge 1            | Separation distance(mm)    | 5.0        |                       |                     |                       |
|                   | exclusion threshold        | 74.7       | 75.2                  | 77.9                | 78.0                  |
|                   | Testing required?          | Yes        | Yes                   | Yes                 | Yes                   |
| Edge 2            | Separation distance(mm)    | 213.0      |                       |                     |                       |
|                   | exclusion threshold        | 1743.0     | 1742.0                | 1739.0              | 1738.0                |
|                   | Testing required?          | No         | No                    | No                  | No                    |
| Edge 3            | Separation distance(mm)    | 174.0      |                       |                     |                       |
|                   | exclusion threshold        | 1353.0     | 1352.0                | 1349.0              | 1348.0                |
|                   | Testing required?          | No         | No                    | No                  | No                    |
| Edge 4            | Separation distance(mm)    | 5.0        |                       |                     |                       |
|                   | exclusion threshold        | 74.7       | 75.2                  | 77.9                | 78.0                  |
|                   | Testing required?          | Yes        | Yes                   | Yes                 | Yes                   |

**ANT 5**

| Exposure Position | Wireless Interface         | FR1 41 | FR1 n77 | FR1 n78 |
|-------------------|----------------------------|--------|---------|---------|
|                   | Calculated Frequency (MHz) | 2687   | 3980    | 3800    |
|                   | Maximum power (dBm)        | 13.8   | 12.0    | 12.0    |
|                   | Maximum rated power(mW)    | 23.99  | 15.85   | 15.85   |
| Bottom Face       | Separation distance(mm)    | 5.0    |         |         |
|                   | exclusion threshold        | 164.3  | 191.5   | 191.5   |
|                   | Testing required?          | Yes    | Yes     | Yes     |
| Edge 1            | Separation distance(mm)    | 144.0  |         |         |
|                   | exclusion threshold        | 1032.0 | 1019.0  | 1019.0  |
|                   | Testing required?          | No     | No      | No      |
| Edge 2            | Separation distance(mm)    | 261.0  |         |         |
|                   | exclusion threshold        | 2202.0 | 2189.0  | 2189.0  |
|                   | Testing required?          | No     | No      | No      |
| Edge 3            | Separation distance(mm)    | 28.0   |         |         |
|                   | exclusion threshold        | 29.3   | 34.2    | 34.2    |
|                   | Testing required?          | Yes    | Yes     | Yes     |
| Edge 4            | Separation distance(mm)    | 5.0    |         |         |
|                   | exclusion threshold        | 164.3  | 191.5   | 191.5   |
|                   | Testing required?          | Yes    | Yes     | Yes     |



**ANT 6**

| Exposure Position | Wireless Interface         | FR1<br>41   | FR1<br>n77  | FR1<br>n78  |
|-------------------|----------------------------|-------------|-------------|-------------|
|                   | Calculated Frequency (MHz) | <b>2687</b> | <b>3980</b> | <b>3800</b> |
|                   | Maximum power (dBm)        | 23.5        | 25.0        | 25.0        |
|                   | Maximum rated power(mW)    | 223.87      | 316.23      | 316.23      |
| Bottom Face       | Separation distance(mm)    | 5.0         |             |             |
|                   | exclusion threshold        | 92.4        | 191.5       | 191.5       |
|                   | Testing required?          | <b>Yes</b>  | <b>Yes</b>  | <b>Yes</b>  |
| Edge 1            | Separation distance(mm)    | 95.0        |             |             |
|                   | exclusion threshold        | 542.0       | 529.0       | 529.0       |
|                   | Testing required?          | <b>No</b>   | <b>No</b>   | <b>No</b>   |
| Edge 2            | Separation distance(mm)    | 5.0         |             |             |
|                   | exclusion threshold        | 92.4        | 191.5       | 191.5       |
|                   | Testing required?          | <b>Yes</b>  | <b>Yes</b>  | <b>Yes</b>  |
| Edge 3            | Separation distance(mm)    | 52.0        |             |             |
|                   | exclusion threshold        | 112.0       | 99.0        | 99.0        |
|                   | Testing required?          | <b>Yes</b>  | <b>Yes</b>  | <b>Yes</b>  |
| Edge 4            | Separation distance(mm)    | 256.0       |             |             |
|                   | exclusion threshold        | 2152.0      | 2139.0      | 2139.0      |
|                   | Testing required?          | <b>No</b>   | <b>No</b>   | <b>No</b>   |

**ANT 7/ ANT 8/ ANT 7+8**

| Exposure Position | Wireless Interface         | Bluetooth /<br>2.4GHz WLAN<br>ANT 7 | Bluetooth /<br>2.4GHz WLAN<br>ANT 8 | 2.4GHz WLAN<br>ANT 7+8 | 5GHz WLAN<br>ANT 7+8 | 6GHz WLAN<br>ANT 7+8 |
|-------------------|----------------------------|-------------------------------------|-------------------------------------|------------------------|----------------------|----------------------|
|                   | Calculated Frequency (MHz) | 2462                                | 2462                                | 2462                   | 5825                 | 6985                 |
|                   | Maximum power (dBm)        | 23.0                                | 23.0                                | 26.0                   | 20.5                 | 18.0                 |
|                   | Maximum rated power(mW)    | 199.53                              | 199.53                              | 398.11                 | 112.20               | 63.10                |
| Bottom Face       | Separation distance(mm)    | 5.0                                 | 5.0                                 | 5.0                    | 5.0                  | 5.0                  |
|                   | exclusion threshold        | 62.6                                | 62.6                                | 124.9                  | 54.2                 | 59.3                 |
|                   | Testing required?          | <b>Yes</b>                          | <b>Yes</b>                          | <b>Yes</b>             | <b>Yes</b>           | <b>Yes</b>           |
| Edge 1            | Separation distance(mm)    | 5.0                                 | 144.0                               | 5.0                    | 5.0                  | 5.0                  |
|                   | exclusion threshold        | 62.6                                | 1036.0                              | 124.9                  | 54.2                 | 59.3                 |
|                   | Testing required?          | <b>Yes</b>                          | <b>No</b>                           | <b>Yes</b>             | <b>Yes</b>           | <b>Yes</b>           |
| Edge 2            | Separation distance(mm)    | 30.0                                | 5.0                                 | 5.0                    | 5.0                  | 5.0                  |
|                   | exclusion threshold        | 10.4                                | 62.6                                | 124.9                  | 54.2                 | 59.3                 |
|                   | Testing required?          | <b>Yes</b>                          | <b>Yes</b>                          | <b>Yes</b>             | <b>Yes</b>           | <b>Yes</b>           |
| Edge 3            | Separation distance(mm)    | 174.0                               | 15.0                                | 15.0                   | 15.0                 | 15.0                 |
|                   | exclusion threshold        | 1336.0                              | 20.9                                | 41.6                   | 18.1                 | 19.8                 |
|                   | Testing required?          | <b>No</b>                           | <b>Yes</b>                          | <b>Yes</b>             | <b>Yes</b>           | <b>Yes</b>           |
| Edge 4            | Separation distance(mm)    | 195.0                               | 256.0                               | 195.0                  | 195.0                | 195.0                |
|                   | exclusion threshold        | 1546.0                              | 2156.0                              | 1546.0                 | 1512.0               | 1507.0               |
|                   | Testing required?          | <b>No</b>                           | <b>No</b>                           | <b>No</b>              | <b>No</b>            | <b>No</b>            |



## 17. SAR Test Results

### General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
  - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
  - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
  - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - $\leq 0.8$  W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
  - $\leq 0.6$  W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - $\leq 0.4$  W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$ W/kg.

### UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than  $\frac{1}{4}$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

### LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. The maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion.
  - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

**5G NR Note:**

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
  - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
  - b. For PI/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
  - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not  $\frac{1}{2}$  dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
  - d. Smaller bandwidth output power for each RB allocation configuration for this device is not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device
  - e. For 5G FR1 n5/n12/n41/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
  - f. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.
  - g. The device support SRS antennas, i.e., the antenna(s) are used for receive and Sound Reference Signal transmission (SRS) only (not traffic transmission). Then the SAR measurement at Plimit for SRS dedicated antenna(s) was performed using FTM mode with CW modulation with 100% duty cycle(as SRS operates at very low duty cycle in online mode).

**WLAN Note:**

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.
2. Per KDB 248227 D01v02r02, WLAN5.2GHz SAR testing is not required when the WLAN5.3GHz band highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for WLAN5.2GHz band.
3. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. For 2.4GHz WLAN SAR testing was performed on single antenna RF power in SISO mode is larger or equal to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission exclusion analysis was performed with SAR test results of each antenna in SISO mode.
6. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is  $< 1.6$ W/kg and SAR peak to location ratio  $\leq 0.04$ , no additional SAR measurements for 2.4GHz MIMO.
7. For determination of the scaling factor for report SAR of 5/6GHz MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain
8. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

**WLAN PD Note:**

1. The WiFi 6E PD was performed according 2020 TCB workshop RF Exposure 5G RFX Policies Interim Procedures.
2. First, evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020 and using highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane).
3. Per Interim Procedures. The power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor
4. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. Absorbed power density (APD) using a 4cm<sup>2</sup> averaging area is reported based on SAR measurements.
6. Power density was calculated by repeated E-field measurements on two measurement planes separated by  $\lambda/4$ .
7. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
8. The measurement procedure consists of measuring the PD<sub>inc</sub> at two different distances: 2 mm (compliance distance) and  $\lambda/5$ . The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD<sub>n</sub> fulfill the criterion described below. Since iPD ratio between the two distances is  $\geq -1$ dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

**NFC Note:**

1. NFC 13.56MHz antenna port is not available on the device to support conducted power measurement, therefore the measured results are referred to as reported SAR.
2. NFC SAR test tissue-simulating liquid parameter: refer to IEC/IEEE 62209-1528 2020.
3. NFC SAR testing is by test software with 100% duty cycle.



17.1 Body SAR

<WCDMA SAR>

| Plot No. | Band           | Mode         | Test Position | Gap (mm) | Battery   | Power Index | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------------|--------------|---------------|----------|-----------|-------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | WCDMA II_Ant 1 | RMC 12.2Kbps | Bottom Face   | 28mm     | Battery 1 | 1           | 9400 | 1880        | 23.88               | 24.50               | 1.153                  | 0.07             | 0.267                  | 0.308                  |
|          | WCDMA II_Ant 1 | RMC 12.2Kbps | Edge 4        | 20mm     | Battery 1 | 1           | 9400 | 1880        | 23.88               | 24.50               | 1.153                  | -0.02            | 0.552                  | 0.637                  |
|          | WCDMA II_Ant 1 | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 1 | 2&3         | 9400 | 1880        | 16.90               | 17.50               | 1.148                  | 0.19             | 0.978                  | 1.123                  |
| 01       | WCDMA II_Ant 1 | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 1 | 2&3         | 9262 | 1852.4      | 16.80               | 17.50               | 1.175                  | -0.05            | 0.984                  | 1.156                  |
|          | WCDMA II_Ant 1 | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 1 | 2&3         | 9538 | 1907.6      | 16.81               | 17.50               | 1.172                  | -0.14            | 0.966                  | 1.132                  |
|          | WCDMA II_Ant 1 | RMC 12.2Kbps | Edge 1        | 0mm      | Battery 1 | 1           | 9400 | 1880        | 23.88               | 24.50               | 1.153                  | 0.18             | 0.088                  | 0.102                  |
|          | WCDMA II_Ant 1 | RMC 12.2Kbps | Edge 4        | 0mm      | Battery 1 | 2&3         | 9400 | 1880        | 16.90               | 17.50               | 1.148                  | 0.05             | 0.838                  | 0.962                  |
|          | WCDMA II_Ant 1 | RMC 12.2Kbps | Edge 4        | 0mm      | Battery 1 | 2&3         | 9262 | 1852.4      | 16.80               | 17.50               | 1.175                  | 0.03             | 0.806                  | 0.947                  |
|          | WCDMA II_Ant 1 | RMC 12.2Kbps | Edge 4        | 0mm      | Battery 1 | 2&3         | 9538 | 1907.6      | 16.81               | 17.50               | 1.172                  | -0.06            | 0.788                  | 0.924                  |
|          | WCDMA II_Ant 1 | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 2 | 2&3         | 9262 | 1852.4      | 16.80               | 17.50               | 1.175                  | -0.05            | 0.638                  | 0.750                  |
|          | WCDMA IV_Ant 1 | RMC 12.2Kbps | Bottom Face   | 28mm     | Battery 1 | 1           | 1413 | 1732.6      | 23.86               | 24.50               | 1.159                  | -0.1             | 0.389                  | 0.451                  |
|          | WCDMA IV_Ant 1 | RMC 12.2Kbps | Edge 4        | 20mm     | Battery 1 | 1           | 1413 | 1732.6      | 23.86               | 24.50               | 1.159                  | -0.01            | 0.799                  | 0.926                  |
|          | WCDMA IV_Ant 1 | RMC 12.2Kbps | Edge 4        | 20mm     | Battery 1 | 1           | 1312 | 1712.4      | 23.77               | 24.50               | 1.183                  | -0.15            | 0.763                  | 0.903                  |
|          | WCDMA IV_Ant 1 | RMC 12.2Kbps | Edge 4        | 20mm     | Battery 1 | 1           | 1513 | 1752.6      | 23.80               | 24.50               | 1.175                  | -0.08            | 0.782                  | 0.919                  |
|          | WCDMA IV_Ant 1 | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 1 | 2&3         | 1413 | 1732.6      | 15.86               | 16.50               | 1.159                  | -0.16            | 0.947                  | 1.097                  |
|          | WCDMA IV_Ant 1 | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 1 | 2&3         | 1312 | 1712.4      | 15.47               | 16.50               | 1.268                  | -0.06            | 0.835                  | 1.058                  |
| 02       | WCDMA IV_Ant 1 | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 1 | 2&3         | 1513 | 1752.6      | 15.80               | 16.50               | 1.175                  | 0.08             | 0.987                  | 1.160                  |
|          | WCDMA IV_Ant 1 | RMC 12.2Kbps | Edge 1        | 0mm      | Battery 1 | 1           | 1413 | 1732.6      | 23.86               | 24.50               | 1.159                  | -0.1             | 0.048                  | 0.056                  |
|          | WCDMA IV_Ant 1 | RMC 12.2Kbps | Edge 4        | 0mm      | Battery 1 | 2&3         | 1413 | 1732.6      | 15.86               | 16.50               | 1.159                  | -0.05            | 0.856                  | 0.992                  |
|          | WCDMA IV_Ant 1 | RMC 12.2Kbps | Edge 4        | 0mm      | Battery 1 | 2&3         | 1312 | 1712.4      | 15.47               | 16.50               | 1.268                  | 0.02             | 0.762                  | 0.966                  |
|          | WCDMA IV_Ant 1 | RMC 12.2Kbps | Edge 4        | 0mm      | Battery 1 | 2&3         | 1513 | 1752.6      | 15.80               | 16.50               | 1.175                  | 0.04             | 0.806                  | 0.947                  |
|          | WCDMA IV_Ant 1 | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 2 | 2&3         | 1513 | 1752.6      | 15.80               | 16.50               | 1.175                  | 0.08             | 0.617                  | 0.725                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Bottom Face   | 28mm     | Battery 1 | 1           | 4132 | 826.4       | 24.72               | 25.00               | 1.067                  | -0.16            | 0.266                  | 0.284                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Edge 4        | 20mm     | Battery 1 | 1           | 4132 | 826.4       | 24.72               | 25.00               | 1.067                  | 0.14             | 0.301                  | 0.321                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 1 | 2&3         | 4132 | 826.4       | 20.15               | 20.50               | 1.084                  | 0.09             | 0.922                  | 1.000                  |
| 03       | WCDMA V_Ant 1  | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 1 | 2&3         | 4182 | 836.4       | 20.11               | 20.50               | 1.094                  | -0.06            | 1.040                  | 1.138                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 1 | 2&3         | 4233 | 846.6       | 19.93               | 20.50               | 1.140                  | -0.12            | 0.943                  | 1.075                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Edge 1        | 0mm      | Battery 1 | 1           | 4132 | 826.4       | 24.72               | 25.00               | 1.067                  | 0.01             | 0.294                  | 0.314                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Edge 4        | 0mm      | Battery 1 | 2&3         | 4132 | 826.4       | 20.15               | 20.50               | 1.084                  | -0.05            | 0.487                  | 0.528                  |
|          | WCDMA V_Ant 1  | RMC 12.2Kbps | Bottom Face   | 0mm      | Battery 2 | 2&3         | 4182 | 836.4       | 20.11               | 20.50               | 1.094                  | -0.06            | 0.595                  | 0.651                  |





<FDD LTE SAR>

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 21100       | 2535        | 23.49               | 25.00               | 1.416                  | 0.1              | 0.071                  | 0.101                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 21100       | 2535        | 22.45               | 24.00               | 1.429                  | 0.05             | 0.055                  | 0.079                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 1       | 0         | Edge 1        | 25mm     | Battery 1 | 1           | 21100       | 2535        | 23.49               | 25.00               | 1.416                  | 0.02             | 0.217                  | 0.307                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 50      | 0         | Edge 1        | 25mm     | Battery 1 | 1           | 21100       | 2535        | 22.45               | 24.00               | 1.429                  | 0.13             | 0.188                  | 0.269                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 21100       | 2535        | 16.18               | 16.80               | 1.153                  | 0.19             | 0.948                  | 1.094                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 20850       | 2510        | 16.16               | 16.80               | 1.159                  | -0.06            | 0.959                  | 1.111                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 21350       | 2560        | 16.08               | 16.80               | 1.180                  | 0.02             | 0.972                  | 1.147                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 21100       | 2535        | 15.44               | 15.80               | 1.086                  | 0.14             | 0.782                  | 0.850                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 20850       | 2510        | 15.34               | 15.80               | 1.112                  | 0.1              | 0.804                  | 0.894                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 21350       | 2560        | 15.27               | 15.80               | 1.130                  | 0.09             | 0.815                  | 0.921                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 21100       | 2535        | 15.29               | 15.80               | 1.125                  | 0.02             | 0.743                  | 0.836                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 21100       | 2535        | 16.18               | 16.80               | 1.153                  | -0.17            | 0.407                  | 0.469                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 21100       | 2535        | 15.44               | 15.80               | 1.086                  | 0.01             | 0.336                  | 0.365                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 21100       | 2535        | 23.49               | 25.00               | 1.416                  | -0.13            | 0.133                  | 0.188                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 50      | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 21100       | 2535        | 22.45               | 24.00               | 1.429                  | -0.02            | 0.106                  | 0.151                  |
|          | LTE Band 7C_Ant 3 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 21100+20902 | 2535        | 16.78               | 16.80               | 1.005                  | 0.05             | 0.962                  | 0.966                  |
|          | LTE Band 7C_Ant 3 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 20850+21048 | 2510        | 16.19               | 16.80               | 1.151                  | -0.04            | 0.929                  | 1.069                  |
|          | LTE Band 7C_Ant 3 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 21350+21152 | 2560        | 16.66               | 16.80               | 1.033                  | -0.06            | 0.941                  | 0.972                  |
|          | LTE Band 7_Ant 3  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 21350       | 2560        | 16.08               | 16.80               | 1.180                  | 0.02             | 0.958                  | 1.131                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 20850       | 2510        | 13.75               | 14.60               | 1.216                  | -0.11            | 0.818                  | 0.995                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 21100       | 2535        | 13.61               | 14.60               | 1.256                  | -0.17            | 0.900                  | 1.130                  |
| 04       | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 21350       | 2560        | 13.55               | 14.60               | 1.274                  | 0.05             | 0.902                  | 1.149                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 20850       | 2510        | 13.67               | 14.60               | 1.239                  | -0.19            | 0.804                  | 0.996                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 21100       | 2535        | 13.46               | 14.60               | 1.300                  | 0                | 0.852                  | 1.108                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 21350       | 2560        | 13.42               | 14.60               | 1.312                  | 0.16             | 0.853                  | 1.119                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 20850       | 2510        | 13.61               | 14.60               | 1.256                  | 0                | 0.791                  | 0.994                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 20850       | 2510        | 13.75               | 14.60               | 1.216                  | -0.03            | 0.062                  | 0.076                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 20850       | 2510        | 13.67               | 14.60               | 1.239                  | -0.02            | 0.058                  | 0.072                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 20850       | 2510        | 13.75               | 14.60               | 1.216                  | 0.05             | 0.296                  | 0.359                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 20850       | 2510        | 13.67               | 14.60               | 1.239                  | 0.09             | 0.281                  | 0.348                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 21350       | 2560        | 13.55               | 14.60               | 1.274                  | 0.05             | 0.411                  | 0.523                  |



**FCC SAR TEST REPORT**

**Report No. : FA371211A**

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 23095 | 707.5       | 23.54               | 24.50               | 1.247                  | -0.01            | 0.188                  | 0.235                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 23095 | 707.5       | 22.60               | 23.50               | 1.230                  | 0.05             | 0.145                  | 0.178                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 23095 | 707.5       | 23.54               | 24.50               | 1.247                  | -0.13            | 0.163                  | 0.203                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 23095 | 707.5       | 22.60               | 23.50               | 1.230                  | 0.06             | 0.128                  | 0.157                  |
| 05       | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 23095 | 707.5       | 20.65               | 21.50               | 1.216                  | 0.14             | 0.921                  | 1.120                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 23095 | 707.5       | 19.76               | 20.50               | 1.186                  | 0.17             | 0.755                  | 0.895                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 23095 | 707.5       | 19.70               | 20.50               | 1.202                  | 0                | 0.752                  | 0.904                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 23095 | 707.5       | 23.54               | 24.50               | 1.247                  | -0.1             | 0.112                  | 0.140                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 23095 | 707.5       | 22.60               | 23.50               | 1.230                  | 0.13             | 0.086                  | 0.106                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 23095 | 707.5       | 20.65               | 21.50               | 1.216                  | -0.02            | 0.405                  | 0.493                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 25      | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 23095 | 707.5       | 19.76               | 20.50               | 1.186                  | 0.05             | 0.345                  | 0.409                  |
|          | LTE Band 12_Ant 1 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 23095 | 707.5       | 20.65               | 21.50               | 1.216                  | 0.14             | 0.681                  | 0.828                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 23230 | 782         | 23.26               | 24.50               | 1.330                  | 0.16             | 0.144                  | 0.192                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 23230 | 782         | 22.27               | 23.50               | 1.327                  | -0.19            | 0.115                  | 0.153                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 23230 | 782         | 23.26               | 24.50               | 1.330                  | 0.05             | 0.103                  | 0.137                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 23230 | 782         | 22.27               | 23.50               | 1.327                  | 0.16             | 0.083                  | 0.110                  |
| 06       | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 23230 | 782         | 20.86               | 22.10               | 1.330                  | 0                | 0.878                  | 1.168                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 23230 | 782         | 19.78               | 21.10               | 1.355                  | -0.06            | 0.702                  | 0.951                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 23230 | 782         | 19.75               | 21.10               | 1.365                  | -0.05            | 0.708                  | 0.966                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 23230 | 782         | 23.26               | 24.50               | 1.330                  | -0.18            | 0.071                  | 0.094                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 23230 | 782         | 22.27               | 23.50               | 1.327                  | 0.1              | 0.043                  | 0.057                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 23230 | 782         | 20.86               | 22.10               | 1.330                  | -0.18            | 0.336                  | 0.447                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 25      | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 23230 | 782         | 19.78               | 21.10               | 1.355                  | 0.07             | 0.249                  | 0.337                  |
|          | LTE Band 13_Ant 1 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 23230 | 782         | 20.86               | 22.10               | 1.330                  | 0                | 0.586                  | 0.780                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 23330 | 793         | 23.58               | 24.50               | 1.236                  | -0.09            | 0.132                  | 0.163                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 23330 | 793         | 22.45               | 23.50               | 1.274                  | -0.14            | 0.100                  | 0.127                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 23330 | 793         | 23.58               | 24.50               | 1.236                  | 0.15             | 0.093                  | 0.115                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 23330 | 793         | 22.45               | 23.50               | 1.274                  | 0.18             | 0.075                  | 0.096                  |
| 07       | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 23330 | 793         | 21.56               | 22.40               | 1.213                  | 0.01             | 0.958                  | 1.162                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 23330 | 793         | 20.50               | 21.40               | 1.230                  | 0.07             | 0.787                  | 0.968                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 23330 | 793         | 20.40               | 21.40               | 1.259                  | -0.11            | 0.764                  | 0.962                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 23330 | 793         | 23.58               | 24.50               | 1.236                  | -0.15            | 0.065                  | 0.080                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 23330 | 793         | 22.45               | 23.50               | 1.274                  | -0.08            | 0.036                  | 0.046                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 23330 | 793         | 21.56               | 22.40               | 1.213                  | -0.12            | 0.340                  | 0.413                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 25      | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 23330 | 793         | 20.50               | 21.40               | 1.230                  | -0.11            | 0.238                  | 0.293                  |
|          | LTE Band 14_Ant 1 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 23330 | 793         | 21.56               | 22.40               | 1.213                  | 0.01             | 0.627                  | 0.761                  |



| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 26140 | 1860        | 23.27               | 24.50               | 1.327                  | 0.1              | 0.313                  | 0.415                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 50      | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 26140 | 1860        | 22.37               | 23.50               | 1.297                  | -0.02            | 0.241                  | 0.313                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 1       | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 26140 | 1860        | 23.27               | 24.50               | 1.327                  | 0.02             | 0.578                  | 0.767                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 50      | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 26140 | 1860        | 22.37               | 23.50               | 1.297                  | 0.05             | 0.462                  | 0.599                  |
| 08       | LTE Band 25_Ant 1 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26140 | 1860        | 16.30               | 17.40               | 1.288                  | -0.12            | 0.911                  | 1.174                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26340 | 1880        | 16.24               | 17.40               | 1.306                  | 0.03             | 0.852                  | 1.113                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26590 | 1905        | 16.14               | 17.40               | 1.337                  | -0.03            | 0.773                  | 1.033                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26140 | 1860        | 15.54               | 16.40               | 1.219                  | 0.13             | 0.738                  | 0.900                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26340 | 1880        | 15.40               | 16.40               | 1.259                  | -0.16            | 0.702                  | 0.884                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26590 | 1905        | 15.29               | 16.40               | 1.291                  | -0.09            | 0.642                  | 0.829                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26140 | 1860        | 15.34               | 16.40               | 1.276                  | 0.14             | 0.701                  | 0.895                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 26140 | 1860        | 23.27               | 24.50               | 1.327                  | -0.19            | 0.048                  | 0.064                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 26140 | 1860        | 22.37               | 23.50               | 1.297                  | 0.04             | 0.039                  | 0.051                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 26140 | 1860        | 16.30               | 17.40               | 1.288                  | 0                | 0.735                  | 0.947                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 26340 | 1880        | 16.24               | 17.40               | 1.306                  | 0                | 0.705                  | 0.921                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 26590 | 1905        | 16.14               | 17.40               | 1.337                  | 0.02             | 0.684                  | 0.914                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 50      | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 26140 | 1860        | 15.54               | 16.40               | 1.219                  | 0.07             | 0.598                  | 0.729                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 100     | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 26140 | 1860        | 15.34               | 16.40               | 1.276                  | 0.15             | 0.548                  | 0.699                  |
|          | LTE Band 25_Ant 1 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 26140 | 1860        | 16.30               | 17.40               | 1.288                  | -0.12            | 0.607                  | 0.782                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 26340 | 1880        | 23.50               | 24.50               | 1.259                  | 0                | 0.317                  | 0.399                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 50      | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 26340 | 1880        | 22.45               | 23.50               | 1.274                  | -0.19            | 0.240                  | 0.306                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 1       | 0         | Edge 1        | 27mm     | Battery 1 | 1           | 26340 | 1880        | 23.50               | 24.50               | 1.259                  | -0.13            | 0.252                  | 0.317                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 50      | 0         | Edge 1        | 27mm     | Battery 1 | 1           | 26340 | 1880        | 22.45               | 23.50               | 1.274                  | -0.13            | 0.204                  | 0.260                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26340 | 1880        | 16.49               | 17.00               | 1.125                  | 0.14             | 0.975                  | 1.096                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26140 | 1860        | 16.40               | 17.00               | 1.148                  | -0.02            | 0.943                  | 1.083                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26590 | 1905        | 16.43               | 17.00               | 1.140                  | 0.06             | 0.993                  | 1.132                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26340 | 1880        | 16.46               | 17.00               | 1.132                  | -0.04            | 0.951                  | 1.077                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26140 | 1860        | 16.38               | 17.00               | 1.153                  | -0.05            | 0.932                  | 1.075                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26590 | 1905        | 16.40               | 17.00               | 1.148                  | 0.14             | 0.977                  | 1.122                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26340 | 1880        | 16.39               | 17.00               | 1.151                  | 0.15             | 0.930                  | 1.070                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 26340 | 1880        | 16.49               | 17.00               | 1.125                  | 0.11             | 0.951                  | 1.069                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 26140 | 1860        | 16.40               | 17.00               | 1.148                  | -0.01            | 0.929                  | 1.067                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 26590 | 1905        | 16.43               | 17.00               | 1.140                  | -0.14            | 0.955                  | 1.089                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 26340 | 1880        | 16.46               | 17.00               | 1.132                  | -0.02            | 0.933                  | 1.057                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 26140 | 1860        | 16.38               | 17.00               | 1.153                  | 0.15             | 0.910                  | 1.050                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 26590 | 1905        | 16.40               | 17.00               | 1.148                  | 0.19             | 0.925                  | 1.062                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 100     | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 26340 | 1880        | 16.39               | 17.00               | 1.151                  | -0.16            | 0.912                  | 1.050                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 26340 | 1880        | 23.50               | 24.50               | 1.259                  | -0.07            | 0.266                  | 0.335                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 50      | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 26340 | 1880        | 22.45               | 23.50               | 1.274                  | -0.01            | 0.205                  | 0.261                  |
|          | LTE Band 25_Ant 4 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 26590 | 1905        | 16.43               | 17.00               | 1.140                  | 0.06             | 0.990                  | 1.129                  |



| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 26865       | 831.5       | 23.77               | 25.50               | 1.489                  | 0.08             | 0.196                  | 0.292                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 26865       | 831.5       | 22.81               | 24.50               | 1.476                  | 0.05             | 0.143                  | 0.211                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 26865       | 831.5       | 23.77               | 25.50               | 1.489                  | 0.1              | 0.139                  | 0.207                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 26865       | 831.5       | 22.81               | 24.50               | 1.476                  | 0.02             | 0.117                  | 0.173                  |
| 09       | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26865       | 831.5       | 20.25               | 20.90               | 1.161                  | -0.16            | 0.975                  | 1.132                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26865       | 831.5       | 19.15               | 19.90               | 1.189                  | -0.04            | 0.758                  | 0.901                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 75      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 26865       | 831.5       | 19.10               | 19.90               | 1.202                  | 0.11             | 0.739                  | 0.888                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 26865       | 831.5       | 23.77               | 25.50               | 1.489                  | 0.13             | 0.251                  | 0.374                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 26865       | 831.5       | 22.81               | 24.50               | 1.476                  | -0.09            | 0.207                  | 0.305                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Edge 3        | 0mm      | Battery 1 | 1           | 26865       | 831.5       | 23.77               | 25.50               | 1.489                  | -0.14            | 0.086                  | 0.128                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Edge 3        | 0mm      | Battery 1 | 1           | 26865       | 831.5       | 22.81               | 24.50               | 1.476                  | 0.05             | 0.060                  | 0.089                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 26865       | 831.5       | 20.25               | 20.90               | 1.161                  | 0.01             | 0.408                  | 0.474                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 36      | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 26865       | 831.5       | 19.15               | 19.90               | 1.189                  | 0.02             | 0.329                  | 0.391                  |
|          | LTE Band 5B_Ant 1 | 10M      | QPSK       | 1       | 49        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 20475+20574 | 831.5       | 20.71               | 20.90               | 1.045                  | 0.08             | 0.962                  | 1.005                  |
|          | LTE Band 26_Ant 1 | 15M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 26865       | 831.5       | 20.25               | 20.90               | 1.161                  | -0.16            | 0.563                  | 0.654                  |
|          | LTE Band 30_Ant 3 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 27710       | 2310        | 22.19               | 23.00               | 1.205                  | 0.04             | 0.117                  | 0.141                  |
|          | LTE Band 30_Ant 3 | 10M      | QPSK       | 25      | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 27710       | 2310        | 21.30               | 22.00               | 1.175                  | -0.18            | 0.092                  | 0.108                  |
|          | LTE Band 30_Ant 3 | 10M      | QPSK       | 1       | 0         | Edge 1        | 25mm     | Battery 1 | 1           | 27710       | 2310        | 22.19               | 23.00               | 1.205                  | 0.05             | 0.264                  | 0.318                  |
|          | LTE Band 30_Ant 3 | 10M      | QPSK       | 25      | 0         | Edge 1        | 25mm     | Battery 1 | 1           | 27710       | 2310        | 21.30               | 22.00               | 1.175                  | -0.1             | 0.223                  | 0.262                  |
| 10       | LTE Band 30_Ant 3 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 27710       | 2310        | 16.19               | 17.30               | 1.291                  | -0.05            | 0.891                  | 1.150                  |
|          | LTE Band 30_Ant 3 | 10M      | QPSK       | 25      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 27710       | 2310        | 15.20               | 16.30               | 1.288                  | -0.16            | 0.709                  | 0.913                  |
|          | LTE Band 30_Ant 3 | 10M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 27710       | 2310        | 15.16               | 16.30               | 1.300                  | -0.07            | 0.703                  | 0.914                  |
|          | LTE Band 30_Ant 3 | 10M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 27710       | 2310        | 16.19               | 17.30               | 1.291                  | -0.04            | 0.394                  | 0.509                  |
|          | LTE Band 30_Ant 3 | 10M      | QPSK       | 25      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 27710       | 2310        | 15.20               | 16.30               | 1.288                  | 0.13             | 0.317                  | 0.408                  |
|          | LTE Band 30_Ant 3 | 10M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 27710       | 2310        | 22.19               | 23.00               | 1.205                  | -0.15            | 0.122                  | 0.147                  |
|          | LTE Band 30_Ant 3 | 10M      | QPSK       | 25      | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 27710       | 2310        | 21.30               | 22.00               | 1.175                  | -0.06            | 0.101                  | 0.119                  |
|          | LTE Band 30_Ant 3 | 10M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 27710       | 2310        | 16.19               | 17.30               | 1.291                  | -0.05            | 0.821                  | 1.060                  |



# FCC SAR TEST REPORT

Report No. : FA371211A

| Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.           | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|---------------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 132072        | 1720        | 23.46               | 24.50               | 1.271                  | -0.07            | 0.363                  | 0.461                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 132072        | 1720        | 22.50               | 23.50               | 1.259                  | -0.03            | 0.274                  | 0.345                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 132072        | 1720        | 23.46               | 24.50               | 1.271                  | -0.02            | 0.722                  | 0.917                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 132322        | 1745        | 23.43               | 24.50               | 1.279                  | 0.06             | 0.705                  | 0.902                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 132572        | 1770        | 23.31               | 24.50               | 1.315                  | 0.14             | 0.693                  | 0.911                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 132072        | 1720        | 22.50               | 23.50               | 1.259                  | -0.05            | 0.572                  | 0.720                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 100     | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 132072        | 1720        | 22.45               | 23.50               | 1.274                  | -0.16            | 0.543                  | 0.692                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132072        | 1720        | 15.50               | 16.30               | 1.202                  | 0.03             | 0.948                  | 1.140                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132322        | 1745        | 15.48               | 16.30               | 1.208                  | -0.17            | 0.925                  | 1.117                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132572        | 1770        | 15.38               | 16.30               | 1.236                  | 0                | 0.903                  | 1.116                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132072        | 1720        | 14.71               | 15.30               | 1.146                  | 0.07             | 0.822                  | 0.942                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132322        | 1745        | 14.69               | 15.30               | 1.151                  | -0.1             | 0.813                  | 0.936                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132572        | 1770        | 14.52               | 15.30               | 1.197                  | -0.11            | 0.799                  | 0.956                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132072        | 1720        | 14.65               | 15.30               | 1.161                  | -0.16            | 0.805                  | 0.935                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 132072        | 1720        | 23.46               | 24.50               | 1.271                  | -0.02            | 0.054                  | 0.069                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 132072        | 1720        | 22.50               | 23.50               | 1.259                  | 0                | 0.036                  | 0.045                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 132072        | 1720        | 15.50               | 16.30               | 1.202                  | -0.19            | 0.768                  | 0.923                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 132322        | 1745        | 15.48               | 16.30               | 1.208                  | -0.05            | 0.743                  | 0.897                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 132572        | 1770        | 15.38               | 16.30               | 1.236                  | -0.06            | 0.719                  | 0.889                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 132072        | 1720        | 14.71               | 15.30               | 1.146                  | 0.02             | 0.635                  | 0.727                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 100     | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 132072        | 1720        | 14.65               | 15.30               | 1.161                  | 0.12             | 0.611                  | 0.710                  |
|          | LTE Band 66B_Ant 1 | 15M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132322+132229 | 1745        | 15.86               | 16.30               | 1.107                  | 0.02             | 0.962                  | 1.065                  |
|          | LTE Band 66B_Ant 1 | 15M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132047+132140 | 1717.5      | 15.66               | 16.30               | 1.159                  | -0.04            | 0.950                  | 1.101                  |
|          | LTE Band 66B_Ant 1 | 15M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132597+132504 | 1772.5      | 15.82               | 16.30               | 1.117                  | -0.07            | 0.938                  | 1.048                  |
|          | LTE Band 66C_Ant 1 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132322+132124 | 1745        | 15.89               | 16.30               | 1.099                  | -0.02            | 0.955                  | 1.050                  |
|          | LTE Band 66C_Ant 1 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132072+132270 | 1720        | 15.71               | 16.30               | 1.146                  | -0.06            | 0.935                  | 1.071                  |
|          | LTE Band 66C_Ant 1 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132572+132374 | 1770        | 15.81               | 16.30               | 1.119                  | -0.19            | 0.921                  | 1.031                  |
|          | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 132072        | 1720        | 15.50               | 16.30               | 1.202                  | 0.03             | 0.539                  | 0.648                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 132322        | 1745        | 23.15               | 24.50               | 1.365                  | 0.18             | 0.283                  | 0.386                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 132322        | 1745        | 22.36               | 23.50               | 1.300                  | -0.02            | 0.229                  | 0.298                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Edge 1        | 27mm     | Battery 1 | 1           | 132322        | 1745        | 23.15               | 24.50               | 1.365                  | 0.13             | 0.241                  | 0.329                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 50      | 0         | Edge 1        | 27mm     | Battery 1 | 1           | 132322        | 1745        | 22.36               | 23.50               | 1.300                  | -0.17            | 0.193                  | 0.251                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132322        | 1745        | 16.11               | 17.00               | 1.227                  | -0.02            | 0.877                  | 1.076                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132072        | 1720        | 16.03               | 17.00               | 1.250                  | -0.09            | 0.865                  | 1.081                  |
| 11       | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132572        | 1770        | 15.91               | 17.00               | 1.285                  | -0.18            | 0.892                  | 1.146                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132322        | 1745        | 16.07               | 17.00               | 1.239                  | -0.12            | 0.861                  | 1.067                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132072        | 1720        | 16.00               | 17.00               | 1.259                  | 0.09             | 0.845                  | 1.064                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132572        | 1770        | 15.90               | 17.00               | 1.288                  | 0.07             | 0.873                  | 1.125                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 132322        | 1745        | 16.02               | 17.00               | 1.253                  | 0.01             | 0.832                  | 1.043                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 132322        | 1745        | 16.11               | 17.00               | 1.227                  | -0.18            | 0.852                  | 1.046                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 132072        | 1720        | 16.03               | 17.00               | 1.250                  | 0.07             | 0.841                  | 1.051                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 132572        | 1770        | 15.91               | 17.00               | 1.285                  | -0.12            | 0.822                  | 1.057                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 132322        | 1745        | 16.07               | 17.00               | 1.239                  | 0.1              | 0.823                  | 1.020                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 132072        | 1720        | 16.00               | 17.00               | 1.259                  | -0.03            | 0.812                  | 1.022                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 132572        | 1770        | 15.90               | 17.00               | 1.288                  | -0.19            | 0.806                  | 1.038                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 100     | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 132322        | 1745        | 16.02               | 17.00               | 1.253                  | -0.03            | 0.824                  | 1.033                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 132322        | 1745        | 23.15               | 24.50               | 1.365                  | -0.09            | 0.119                  | 0.162                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 50      | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 132322        | 1745        | 22.36               | 23.50               | 1.300                  | 0.14             | 0.094                  | 0.122                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 132572        | 1770        | 15.91               | 17.00               | 1.285                  | -0.18            | 0.843                  | 1.083                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 132072        | 1720        | 16.03               | 17.00               | 1.250                  | -0.06            | 0.822                  | 1.028                  |
|          | LTE Band 66_Ant 4  | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 132322        | 1745        | 16.11               | 17.00               | 1.227                  | 0.05             | 0.827                  | 1.015                  |



**FCC SAR TEST REPORT**

**Report No. : FA371211A**

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 133297 | 680.5       | 23.34               | 24.50               | 1.306                  | -0.05            | 0.166                  | 0.217                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Bottom Face   | 28mm     | Battery 1 | 1           | 133297 | 680.5       | 22.44               | 23.50               | 1.276                  | 0.13             | 0.132                  | 0.168                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 133297 | 680.5       | 23.34               | 24.50               | 1.306                  | 0.08             | 0.148                  | 0.193                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 133297 | 680.5       | 22.44               | 23.50               | 1.276                  | 0.09             | 0.117                  | 0.149                  |
| 12       | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 133297 | 680.5       | 21.19               | 22.30               | 1.291                  | 0.02             | 0.881                  | 1.138                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 133297 | 680.5       | 20.27               | 21.30               | 1.268                  | 0.07             | 0.724                  | 0.918                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 133297 | 680.5       | 20.15               | 21.30               | 1.303                  | 0.15             | 0.706                  | 0.920                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 133297 | 680.5       | 23.34               | 24.50               | 1.306                  | -0.05            | 0.065                  | 0.085                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 1           | 133297 | 680.5       | 22.44               | 23.50               | 1.276                  | -0.01            | 0.042                  | 0.054                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 133297 | 680.5       | 21.19               | 22.30               | 1.291                  | -0.04            | 0.408                  | 0.527                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 50      | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 133297 | 680.5       | 20.27               | 21.30               | 1.268                  | 0                | 0.282                  | 0.357                  |
|          | LTE Band 71_Ant 1 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 133297 | 680.5       | 21.19               | 22.30               | 1.291                  | 0.02             | 0.699                  | 0.903                  |

**<TDD LTE SAR>**

| Plot No. | Band                   | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 40620       | 2593        | 23.45               | 24.50               | 1.274                  | 62.9         | 1.006                     | 0.19             | 0.057                  | 0.073                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 40620       | 2593        | 22.63               | 23.50               | 1.222                  | 62.9         | 1.006                     | -0.06            | 0.038                  | 0.047                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 1       | 0         | Edge 1        | 25mm     | Battery 1 | 1           | 40620       | 2593        | 23.45               | 24.50               | 1.274                  | 62.9         | 1.006                     | 0.14             | 0.165                  | 0.211                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 50      | 0         | Edge 1        | 25mm     | Battery 1 | 1           | 40620       | 2593        | 22.63               | 23.50               | 1.222                  | 62.9         | 1.006                     | 0.06             | 0.134                  | 0.165                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 15.83               | 16.80               | 1.250                  | 62.9         | 1.006                     | -0.16            | 0.650                  | 0.817                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 39750       | 2506        | 15.81               | 16.80               | 1.256                  | 62.9         | 1.006                     | 0.18             | 0.522                  | 0.660                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40185       | 2549.5      | 15.76               | 16.80               | 1.271                  | 62.9         | 1.006                     | -0.17            | 0.598                  | 0.764                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41055       | 2636.5      | 15.56               | 16.80               | 1.330                  | 62.9         | 1.006                     | 0.09             | 0.730                  | 0.977                  |
| 13       | LTE Band 41_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41490       | 2680        | 15.56               | 16.80               | 1.330                  | 62.9         | 1.006                     | 0.02             | 0.869                  | 1.163                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 15.09               | 15.80               | 1.178                  | 62.9         | 1.006                     | -0.1             | 0.551                  | 0.653                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 39750       | 2506        | 15.07               | 15.80               | 1.183                  | 62.9         | 1.006                     | 0.15             | 0.443                  | 0.527                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40185       | 2549.5      | 14.99               | 15.80               | 1.205                  | 62.9         | 1.006                     | -0.12            | 0.504                  | 0.611                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41055       | 2636.5      | 14.72               | 15.80               | 1.282                  | 62.9         | 1.006                     | 0.04             | 0.573                  | 0.739                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41490       | 2680        | 14.73               | 15.80               | 1.279                  | 62.9         | 1.006                     | 0.19             | 0.722                  | 0.929                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 14.92               | 15.80               | 1.225                  | 62.9         | 1.006                     | 0.02             | 0.530                  | 0.653                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 15.83               | 16.80               | 1.250                  | 62.9         | 1.006                     | -0.11            | 0.232                  | 0.291                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 15.09               | 15.80               | 1.178                  | 62.9         | 1.006                     | -0.05            | 0.204                  | 0.242                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 40620       | 2593        | 23.45               | 24.50               | 1.274                  | 62.9         | 1.006                     | -0.08            | 0.106                  | 0.136                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 50      | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 40620       | 2593        | 22.63               | 23.50               | 1.222                  | 62.9         | 1.006                     | 0.04             | 0.098                  | 0.120                  |
|          | LTE Band 41_HPUE_Ant 3 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41490       | 2680        | 18.28               | 18.40               | 1.028                  | 42.9         | 1.009                     | -0.02            | 1.040                  | 1.079                  |
|          | LTE Band 41_HPUE_Ant 3 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 39750       | 2506        | 17.98               | 18.40               | 1.102                  | 42.9         | 1.009                     | 0.18             | 0.543                  | 0.604                  |
|          | LTE Band 41_HPUE_Ant 3 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40185       | 2549.5      | 18.13               | 18.40               | 1.064                  | 42.9         | 1.009                     | 0.14             | 0.698                  | 0.749                  |
|          | LTE Band 41_HPUE_Ant 3 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 18.22               | 18.40               | 1.042                  | 42.9         | 1.009                     | -0.04            | 0.801                  | 0.842                  |
|          | LTE Band 41_HPUE_Ant 3 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41055       | 2636.5      | 17.92               | 18.40               | 1.117                  | 42.9         | 1.009                     | -0.17            | 0.866                  | 0.976                  |
|          | LTE Band 41C_Ant 3     | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41490+41292 | 2680        | 16.61               | 16.80               | 1.045                  | 62.9         | 1.006                     | 0.05             | 0.958                  | 1.007                  |
|          | LTE Band 41C_Ant 3     | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 39750+39948 | 2506        | 15.93               | 16.80               | 1.222                  | 62.9         | 1.006                     | 0.1              | 0.537                  | 0.660                  |
|          | LTE Band 41C_Ant 3     | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40185+39987 | 2549.5      | 16.56               | 16.80               | 1.057                  | 62.9         | 1.006                     | -0.04            | 0.734                  | 0.780                  |
|          | LTE Band 41C_Ant 3     | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40620+40422 | 2593        | 16.42               | 16.80               | 1.091                  | 62.9         | 1.006                     | -0.02            | 0.801                  | 0.879                  |
|          | LTE Band 41C_Ant 3     | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41055+40857 | 2636.5      | 16.49               | 16.80               | 1.074                  | 62.9         | 1.006                     | 0.13             | 0.823                  | 0.889                  |
|          | LTE Band 41_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 41490       | 2680        | 15.56               | 16.80               | 1.330                  | 62.9         | 1.006                     | 0.02             | 0.704                  | 0.942                  |



# FCC SAR TEST REPORT

Report No. : FA371211A

| Plot No. | Band                   | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.         | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|-------------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 15.96               | 16.70               | 1.186                  | 62.9         | 1.006                     | 0.16             | 0.910                  | 1.086                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 39750       | 2506        | 15.77               | 16.70               | 1.239                  | 62.9         | 1.006                     | -0.02            | 0.905                  | 1.128                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40185       | 2549.5      | 15.88               | 16.70               | 1.208                  | 62.9         | 1.006                     | 0.01             | 0.946                  | 1.149                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41055       | 2636.5      | 15.69               | 16.70               | 1.262                  | 62.9         | 1.006                     | -0.04            | 0.881                  | 1.118                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41490       | 2680        | 15.89               | 16.70               | 1.205                  | 62.9         | 1.006                     | 0                | 0.822                  | 0.996                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 15.94               | 16.70               | 1.191                  | 62.9         | 1.006                     | 0.12             | 0.881                  | 1.056                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 39750       | 2506        | 15.74               | 16.70               | 1.247                  | 62.9         | 1.006                     | -0.09            | 0.896                  | 1.124                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40185       | 2549.5      | 15.82               | 16.70               | 1.225                  | 62.9         | 1.006                     | 0.18             | 0.920                  | 1.133                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41055       | 2636.5      | 15.58               | 16.70               | 1.294                  | 62.9         | 1.006                     | 0.06             | 0.864                  | 1.125                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41490       | 2680        | 15.87               | 16.70               | 1.211                  | 62.9         | 1.006                     | 0.03             | 0.813                  | 0.990                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 15.93               | 16.70               | 1.194                  | 62.9         | 1.006                     | 0.01             | 0.855                  | 1.027                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 15.96               | 16.70               | 1.186                  | 62.9         | 1.006                     | 0.19             | 0.045                  | 0.054                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 15.94               | 16.70               | 1.191                  | 62.9         | 1.006                     | 0.15             | 0.043                  | 0.052                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 15.96               | 16.70               | 1.186                  | 62.9         | 1.006                     | -0.18            | 0.277                  | 0.330                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 15.94               | 16.70               | 1.191                  | 62.9         | 1.006                     | -0.15            | 0.275                  | 0.330                  |
|          | LTE Band 41_HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41490       | 2680        | 17.56               | 18.30               | 1.186                  | 42.9         | 1.009                     | 0.08             | 0.918                  | 1.098                  |
|          | LTE Band 41_HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 39750       | 2506        | 17.29               | 18.30               | 1.262                  | 42.9         | 1.009                     | 0.05             | 0.826                  | 1.052                  |
|          | LTE Band 41_HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40185       | 2549.5      | 17.45               | 18.30               | 1.216                  | 42.9         | 1.009                     | 0.06             | 0.853                  | 1.047                  |
|          | LTE Band 41_HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 40620       | 2593        | 17.48               | 18.30               | 1.208                  | 42.9         | 1.009                     | 0.09             | 0.869                  | 1.059                  |
|          | LTE Band 41_HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 41055       | 2636.5      | 17.42               | 18.30               | 1.225                  | 42.9         | 1.009                     | 0.15             | 0.829                  | 1.024                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 40185       | 2549.5      | 15.88               | 16.70               | 1.208                  | 62.9         | 1.006                     | 0.01             | 0.633                  | 0.769                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 56640       | 3690        | 20.73               | 22.00               | 1.340                  | 62.9         | 1.006                     | -0.12            | 0.519                  | 0.699                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 55340       | 3560        | 20.50               | 22.00               | 1.413                  | 62.9         | 1.006                     | -0.11            | 0.343                  | 0.487                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 55830       | 3609        | 20.25               | 22.00               | 1.496                  | 62.9         | 1.006                     | -0.01            | 0.390                  | 0.587                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 56150       | 3641        | 20.36               | 22.00               | 1.459                  | 62.9         | 1.006                     | 0.03             | 0.447                  | 0.656                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 56640       | 3690        | 19.62               | 21.00               | 1.374                  | 62.9         | 1.006                     | -0.05            | 0.417                  | 0.576                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Edge 1        | 25mm     | Battery 1 | 1           | 56640       | 3690        | 20.73               | 22.00               | 1.340                  | 62.9         | 1.006                     | 0.08             | 0.143                  | 0.193                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 50      | 0         | Edge 1        | 25mm     | Battery 1 | 1           | 56640       | 3690        | 19.62               | 21.00               | 1.374                  | 62.9         | 1.006                     | -0.02            | 0.104                  | 0.144                  |
| 14       | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 56640       | 3690        | 11.39               | 12.20               | 1.205                  | 62.9         | 1.006                     | 0.04             | 0.969                  | 1.175                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 55340       | 3560        | 11.32               | 12.20               | 1.225                  | 62.9         | 1.006                     | -0.11            | 0.640                  | 0.788                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 55830       | 3609        | 11.17               | 12.20               | 1.268                  | 62.9         | 1.006                     | -0.12            | 0.728                  | 0.928                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 56150       | 3641        | 11.14               | 12.20               | 1.276                  | 62.9         | 1.006                     | 0.03             | 0.833                  | 1.070                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 56640       | 3690        | 10.48               | 11.20               | 1.180                  | 62.9         | 1.006                     | -0.07            | 0.778                  | 0.924                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 55340       | 3560        | 10.43               | 11.20               | 1.194                  | 62.9         | 1.006                     | 0.1              | 0.550                  | 0.661                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 55830       | 3609        | 10.26               | 11.20               | 1.242                  | 62.9         | 1.006                     | 0.13             | 0.608                  | 0.759                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 56150       | 3641        | 10.19               | 11.20               | 1.262                  | 62.9         | 1.006                     | -0.16            | 0.662                  | 0.840                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 56640       | 3690        | 10.41               | 11.20               | 1.199                  | 62.9         | 1.006                     | 0.08             | 0.702                  | 0.847                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 56640       | 3690        | 11.39               | 12.20               | 1.205                  | 62.9         | 1.006                     | 0.07             | 0.264                  | 0.320                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 50      | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 56640       | 3690        | 10.48               | 11.20               | 1.180                  | 62.9         | 1.006                     | 0.02             | 0.213                  | 0.253                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 56640       | 3690        | 20.73               | 22.00               | 1.340                  | 62.9         | 1.006                     | 0.05             | 0.135                  | 0.182                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 50      | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 56640       | 3690        | 19.62               | 21.00               | 1.374                  | 62.9         | 1.006                     | -0.05            | 0.108                  | 0.149                  |
|          | LTE Band 48C_Ant 3     | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 56640+56442 | 3690        | 12.11               | 12.20               | 1.021                  | 62.9         | 1.006                     | -0.1             | 0.968                  | 0.994                  |
|          | LTE Band 48C_Ant 3     | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 55340+55538 | 3690        | 11.41               | 12.20               | 1.199                  | 62.9         | 1.006                     | -0.14            | 0.655                  | 0.790                  |
|          | LTE Band 48C_Ant 3     | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 55830+55632 | 3690        | 12.02               | 12.20               | 1.042                  | 62.9         | 1.006                     | 0                | 0.804                  | 0.843                  |
|          | LTE Band 48C_Ant 3     | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 56150+55952 | 3690        | 11.99               | 12.20               | 1.050                  | 62.9         | 1.006                     | 0.06             | 0.967                  | 1.021                  |
|          | LTE Band 48_Ant 3      | 20M      | QPSK       | 1       | 0         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 56640       | 3690        | 11.39               | 12.20               | 1.205                  | 62.9         | 1.006                     | 0.04             | 0.762                  | 0.924                  |



<5G NR SAR>

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 1       | 1         | Bottom Face   | 24mm     | Battery 1 | 1           | 507000 | 2535        | 24.02               | 24.50               | 1.117                  | 0.19             | 0.096                  | 0.107                  |
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 108     | 54        | Bottom Face   | 24mm     | Battery 1 | 1           | 507000 | 2535        | 23.96               | 24.50               | 1.132                  | -0.06            | 0.088                  | 0.100                  |
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 1       | 1         | Edge 1        | 25mm     | Battery 1 | 1           | 507000 | 2535        | 24.02               | 24.50               | 1.117                  | -0.01            | 0.271                  | 0.303                  |
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 108     | 54        | Edge 1        | 25mm     | Battery 1 | 1           | 507000 | 2535        | 23.96               | 24.50               | 1.132                  | -0.12            | 0.254                  | 0.288                  |
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 15.84               | 17.10               | 1.337                  | 0.06             | 0.871                  | 1.164                  |
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 108     | 54        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 15.80               | 17.10               | 1.349                  | -0.19            | 0.853                  | 1.151                  |
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 216     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 15.78               | 17.10               | 1.355                  | 0.02             | 0.841                  | 1.140                  |
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 15.84               | 17.10               | 1.337                  | -0.16            | 0.325                  | 0.434                  |
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 108     | 54        | Edge 1        | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 15.80               | 17.10               | 1.349                  | 0.13             | 0.309                  | 0.417                  |
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 1           | 507000 | 2535        | 24.02               | 24.50               | 1.117                  | 0.15             | 0.137                  | 0.153                  |
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 108     | 54        | Edge 4        | 0mm      | Battery 1 | 1           | 507000 | 2535        | 23.96               | 24.50               | 1.132                  | 0                | 0.119                  | 0.135                  |
|          | FR1 n7_Ant 3  | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 507000 | 2535        | 15.84               | 17.10               | 1.337                  | 0.06             | 0.850                  | 1.136                  |
| 15       | FR1 n7_Ant 2  | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 13.62               | 14.70               | 1.282                  | 0.11             | 0.909                  | 1.166                  |
|          | FR1 n7_Ant 2  | 40M      | BPSK       | 108     | 54        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 13.59               | 14.70               | 1.291                  | 0.16             | 0.878                  | 1.134                  |
|          | FR1 n7_Ant 2  | 40M      | BPSK       | 216     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 13.55               | 14.70               | 1.303                  | -0.14            | 0.853                  | 1.112                  |
|          | FR1 n7_Ant 2  | 40M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 13.62               | 14.70               | 1.282                  | 0.12             | 0.058                  | 0.074                  |
|          | FR1 n7_Ant 2  | 40M      | BPSK       | 108     | 54        | Edge 1        | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 13.59               | 14.70               | 1.291                  | -0.06            | 0.054                  | 0.070                  |
|          | FR1 n7_Ant 2  | 40M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 13.62               | 14.70               | 1.282                  | 0.01             | 0.269                  | 0.345                  |
|          | FR1 n7_Ant 2  | 40M      | BPSK       | 108     | 54        | Edge 4        | 0mm      | Battery 1 | 2&3         | 507000 | 2535        | 13.59               | 14.70               | 1.291                  | -0.15            | 0.247                  | 0.319                  |
|          | FR1 n7_Ant 2  | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 507000 | 2535        | 13.62               | 14.70               | 1.282                  | 0.11             | 0.447                  | 0.573                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Bottom Face   | 28mm     | Battery 1 | 1           | 141500 | 707.5       | 24.20               | 24.50               | 1.072                  | -0.09            | 0.246                  | 0.264                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Bottom Face   | 28mm     | Battery 1 | 1           | 141500 | 707.5       | 24.08               | 24.50               | 1.102                  | -0.16            | 0.228                  | 0.251                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Edge 4        | 20mm     | Battery 1 | 1           | 141500 | 707.5       | 24.20               | 24.50               | 1.072                  | -0.05            | 0.133                  | 0.143                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Edge 4        | 20mm     | Battery 1 | 1           | 141500 | 707.5       | 24.08               | 24.50               | 1.102                  | -0.07            | 0.110                  | 0.121                  |
| 16       | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 141500 | 707.5       | 21.41               | 21.80               | 1.094                  | -0.03            | 1.080                  | 1.181                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 141500 | 707.5       | 21.38               | 21.80               | 1.102                  | 0.1              | 0.996                  | 1.097                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 75      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 141500 | 707.5       | 21.35               | 21.80               | 1.109                  | 0.02             | 1.030                  | 1.142                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 1           | 141500 | 707.5       | 24.20               | 24.50               | 1.072                  | -0.07            | 0.115                  | 0.123                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Edge 1        | 0mm      | Battery 1 | 1           | 141500 | 707.5       | 24.08               | 24.50               | 1.102                  | -0.1             | 0.102                  | 0.112                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 141500 | 707.5       | 21.41               | 21.80               | 1.094                  | -0.02            | 0.402                  | 0.440                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 36      | 22        | Edge 4        | 0mm      | Battery 1 | 2&3         | 141500 | 707.5       | 21.38               | 21.80               | 1.102                  | 0.14             | 0.389                  | 0.428                  |
|          | FR1 n12_Ant 1 | 15M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 141500 | 707.5       | 21.41               | 21.80               | 1.094                  | -0.03            | 0.810                  | 0.886                  |
|          | FR1 n13_Ant 1 | 10M      | BPSK       | 1       | 1         | Bottom Face   | 28mm     | Battery 1 | 1           | 156400 | 782         | 23.83               | 24.50               | 1.167                  | 0                | 0.160                  | 0.187                  |
|          | FR1 n13_Ant 1 | 10M      | BPSK       | 25      | 14        | Bottom Face   | 28mm     | Battery 1 | 1           | 156400 | 782         | 23.75               | 24.50               | 1.189                  | 0                | 0.144                  | 0.171                  |
|          | FR1 n13_Ant 1 | 10M      | BPSK       | 1       | 1         | Edge 4        | 20mm     | Battery 1 | 1           | 156400 | 782         | 23.83               | 24.50               | 1.167                  | 0.11             | 0.125                  | 0.146                  |
|          | FR1 n13_Ant 1 | 10M      | BPSK       | 25      | 14        | Edge 4        | 20mm     | Battery 1 | 1           | 156400 | 782         | 23.75               | 24.50               | 1.189                  | -0.12            | 0.111                  | 0.132                  |
| 17       | FR1 n13_Ant 1 | 10M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 156400 | 782         | 21.45               | 22.20               | 1.189                  | 0.15             | 0.999                  | 1.187                  |
|          | FR1 n13_Ant 1 | 10M      | BPSK       | 25      | 14        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 156400 | 782         | 21.43               | 22.20               | 1.194                  | -0.01            | 0.987                  | 1.178                  |
|          | FR1 n13_Ant 1 | 10M      | BPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 156400 | 782         | 21.37               | 22.20               | 1.211                  | -0.03            | 0.966                  | 1.169                  |
|          | FR1 n13_Ant 1 | 10M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 1           | 156400 | 782         | 23.83               | 24.50               | 1.167                  | 0.06             | 0.053                  | 0.062                  |
|          | FR1 n13_Ant 1 | 10M      | BPSK       | 25      | 14        | Edge 1        | 0mm      | Battery 1 | 1           | 156400 | 782         | 23.75               | 24.50               | 1.189                  | -0.11            | 0.051                  | 0.061                  |
|          | FR1 n13_Ant 1 | 10M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 156400 | 782         | 21.45               | 22.20               | 1.189                  | 0.15             | 0.502                  | 0.597                  |
|          | FR1 n13_Ant 1 | 10M      | BPSK       | 25      | 14        | Edge 4        | 0mm      | Battery 1 | 2&3         | 156400 | 782         | 21.43               | 22.20               | 1.194                  | -0.01            | 0.493                  | 0.589                  |
|          | FR1 n13_Ant 1 | 10M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 156400 | 782         | 21.45               | 22.20               | 1.189                  | 0.15             | 0.678                  | 0.806                  |





# FCC SAR TEST REPORT

Report No. : FA371211A

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 1         | Bottom Face   | 28mm     | Battery 1 | 1           | 158600 | 793         | 24.05               | 24.50               | 1.109                  | 0.03             | 0.154                  | 0.171                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Bottom Face   | 28mm     | Battery 1 | 1           | 158600 | 793         | 24.04               | 24.50               | 1.112                  | 0.18             | 0.143                  | 0.159                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 1         | Edge 4        | 20mm     | Battery 1 | 1           | 158600 | 793         | 24.05               | 24.50               | 1.109                  | -0.15            | 0.119                  | 0.132                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Edge 4        | 20mm     | Battery 1 | 1           | 158600 | 793         | 24.04               | 24.50               | 1.112                  | -0.04            | 0.112                  | 0.125                  |
| 18       | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 158600 | 793         | 21.57               | 22.30               | 1.183                  | -0.08            | 0.989                  | 1.170                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 158600 | 793         | 21.53               | 22.30               | 1.194                  | 0.05             | 0.972                  | 1.161                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 158600 | 793         | 21.49               | 22.30               | 1.205                  | -0.15            | 0.956                  | 1.152                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 1           | 158600 | 793         | 24.05               | 24.50               | 1.109                  | -0.19            | 0.065                  | 0.072                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Edge 1        | 0mm      | Battery 1 | 1           | 158600 | 793         | 24.04               | 24.50               | 1.112                  | 0.17             | 0.051                  | 0.057                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 158600 | 793         | 21.57               | 22.30               | 1.183                  | 0.01             | 0.361                  | 0.427                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 25      | 14        | Edge 4        | 0mm      | Battery 1 | 2&3         | 158600 | 793         | 21.53               | 22.30               | 1.194                  | -0.11            | 0.352                  | 0.420                  |
|          | FR1 n14_Ant 1 | 10M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 158600 | 793         | 21.57               | 22.30               | 1.183                  | -0.08            | 0.664                  | 0.786                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 28mm     | Battery 1 | 1           | 376500 | 1882.5      | 24.29               | 24.50               | 1.050                  | 0.06             | 0.347                  | 0.364                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 108     | 54        | Bottom Face   | 28mm     | Battery 1 | 1           | 376500 | 1882.5      | 24.27               | 24.50               | 1.054                  | 0.05             | 0.329                  | 0.347                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 1       | 1         | Edge 4        | 20mm     | Battery 1 | 1           | 376500 | 1882.5      | 24.29               | 24.50               | 1.050                  | -0.14            | 0.566                  | 0.594                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 108     | 54        | Edge 4        | 20mm     | Battery 1 | 1           | 376500 | 1882.5      | 24.27               | 24.50               | 1.054                  | 0.12             | 0.538                  | 0.567                  |
| 19       | FR1 n25_Ant 1 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 17.25               | 17.70               | 1.109                  | 0.04             | 1.060                  | 1.176                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 108     | 54        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 17.21               | 17.70               | 1.119                  | 0.15             | 1.010                  | 1.131                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 216     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 17.19               | 17.70               | 1.125                  | 0.16             | 1.020                  | 1.147                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 1           | 376500 | 1882.5      | 24.29               | 24.50               | 1.050                  | 0                | 0.045                  | 0.047                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 108     | 54        | Edge 1        | 0mm      | Battery 1 | 1           | 376500 | 1882.5      | 24.27               | 24.50               | 1.054                  | -0.06            | 0.039                  | 0.041                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 17.25               | 17.70               | 1.109                  | -0.17            | 0.851                  | 0.944                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 108     | 54        | Edge 4        | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 17.21               | 17.70               | 1.119                  | -0.1             | 0.821                  | 0.919                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 216     | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 17.19               | 17.70               | 1.125                  | -0.03            | 0.819                  | 0.921                  |
|          | FR1 n25_Ant 1 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 376500 | 1882.5      | 17.25               | 17.70               | 1.109                  | 0.04             | 0.635                  | 0.704                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 24mm     | Battery 1 | 1           | 376500 | 1882.5      | 24.20               | 24.50               | 1.072                  | 0.19             | 0.308                  | 0.330                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 108     | 54        | Bottom Face   | 24mm     | Battery 1 | 1           | 376500 | 1882.5      | 24.09               | 24.50               | 1.099                  | -0.04            | 0.296                  | 0.325                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 1       | 1         | Edge 1        | 27mm     | Battery 1 | 1           | 376500 | 1882.5      | 24.20               | 24.50               | 1.072                  | -0.01            | 0.090                  | 0.096                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 108     | 54        | Edge 1        | 27mm     | Battery 1 | 1           | 376500 | 1882.5      | 24.09               | 24.50               | 1.099                  | -0.18            | 0.087                  | 0.096                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 16.72               | 17.30               | 1.143                  | 0.09             | 1.010                  | 1.154                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 108     | 54        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 16.67               | 17.30               | 1.156                  | 0.04             | 0.979                  | 1.132                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 216     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 16.65               | 17.30               | 1.161                  | -0.17            | 0.943                  | 1.095                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 16.72               | 17.30               | 1.143                  | 0.05             | 0.955                  | 1.091                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 108     | 54        | Edge 1        | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 16.67               | 17.30               | 1.156                  | 0.18             | 0.933                  | 1.079                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 216     | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 16.65               | 17.30               | 1.161                  | -0.11            | 0.912                  | 1.059                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 1           | 376500 | 1882.5      | 24.20               | 24.50               | 1.072                  | 0.18             | 0.306                  | 0.328                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 108     | 54        | Edge 4        | 0mm      | Battery 1 | 1           | 376500 | 1882.5      | 24.09               | 24.50               | 1.099                  | -0.09            | 0.293                  | 0.322                  |
|          | FR1 n25_Ant 4 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 376500 | 1882.5      | 16.72               | 17.30               | 1.143                  | 0.09             | 0.978                  | 1.118                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 1       | 1         | Bottom Face   | 28mm     | Battery 1 | 1           | 166300 | 831.5       | 24.43               | 24.50               | 1.016                  | 0.12             | 0.217                  | 0.221                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 50      | 28        | Bottom Face   | 28mm     | Battery 1 | 1           | 166300 | 831.5       | 24.41               | 24.50               | 1.021                  | -0.17            | 0.205                  | 0.209                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 1       | 1         | Edge 4        | 20mm     | Battery 1 | 1           | 166300 | 831.5       | 24.43               | 24.50               | 1.016                  | -0.1             | 0.196                  | 0.199                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 50      | 28        | Edge 4        | 20mm     | Battery 1 | 1           | 166300 | 831.5       | 24.41               | 24.50               | 1.021                  | -0.15            | 0.183                  | 0.187                  |
| 20       | FR1 n26_Ant 1 | 20M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 166300 | 831.5       | 20.53               | 21.10               | 1.140                  | 0.13             | 1.020                  | 1.163                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 50      | 28        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 166300 | 831.5       | 20.49               | 21.10               | 1.151                  | -0.09            | 0.987                  | 1.136                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 166300 | 831.5       | 20.48               | 21.10               | 1.153                  | 0.19             | 0.963                  | 1.111                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 1           | 166300 | 831.5       | 24.43               | 24.50               | 1.016                  | 0.16             | 0.272                  | 0.276                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 50      | 28        | Edge 1        | 0mm      | Battery 1 | 1           | 166300 | 831.5       | 24.41               | 24.50               | 1.021                  | -0.06            | 0.253                  | 0.258                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 1       | 1         | Edge 3        | 0mm      | Battery 1 | 1           | 166300 | 831.5       | 24.43               | 24.50               | 1.016                  | 0.13             | 0.113                  | 0.115                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 50      | 28        | Edge 3        | 0mm      | Battery 1 | 1           | 166300 | 831.5       | 24.41               | 24.50               | 1.021                  | 0.13             | 0.108                  | 0.110                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 166300 | 831.5       | 20.53               | 21.10               | 1.140                  | -0.19            | 0.453                  | 0.517                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 50      | 28        | Edge 4        | 0mm      | Battery 1 | 2&3         | 166300 | 831.5       | 20.49               | 21.10               | 1.151                  | 0.17             | 0.427                  | 0.491                  |
|          | FR1 n26_Ant 1 | 20M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 166300 | 831.5       | 20.53               | 21.10               | 1.140                  | 0.13             | 0.592                  | 0.675                  |



# FCC SAR TEST REPORT

Report No. : FA371211A

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n30_Ant 3 | 10M      | BPSK       | 1       | 1         | Bottom Face   | 24mm     | Battery 1 | 1           | 462000 | 2310        | 22.96               | 23.00               | 1.009                  | -0.05            | 0.098                  | 0.099                  |
|          | FR1 n30_Ant 3 | 10M      | BPSK       | 25      | 14        | Bottom Face   | 24mm     | Battery 1 | 1           | 462000 | 2310        | 22.88               | 23.00               | 1.028                  | -0.07            | 0.084                  | 0.086                  |
|          | FR1 n30_Ant 3 | 10M      | BPSK       | 1       | 1         | Edge 1        | 25mm     | Battery 1 | 1           | 462000 | 2310        | 22.96               | 23.00               | 1.009                  | 0.08             | 0.211                  | 0.213                  |
|          | FR1 n30_Ant 3 | 10M      | BPSK       | 25      | 14        | Edge 1        | 25mm     | Battery 1 | 1           | 462000 | 2310        | 22.88               | 23.00               | 1.028                  | -0.01            | 0.202                  | 0.208                  |
| 21       | FR1 n30_Ant 3 | 10M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 462000 | 2310        | 17.51               | 17.90               | 1.094                  | 0.03             | 1.080                  | 1.181                  |
|          | FR1 n30_Ant 3 | 10M      | BPSK       | 25      | 14        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 462000 | 2310        | 17.44               | 17.90               | 1.112                  | 0.1              | 1.010                  | 1.123                  |
|          | FR1 n30_Ant 3 | 10M      | BPSK       | 50      | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 462000 | 2310        | 17.43               | 17.90               | 1.114                  | -0.16            | 1.030                  | 1.148                  |
|          | FR1 n30_Ant 3 | 10M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 462000 | 2310        | 17.51               | 17.90               | 1.094                  | -0.09            | 0.581                  | 0.636                  |
|          | FR1 n30_Ant 3 | 10M      | BPSK       | 25      | 14        | Edge 1        | 0mm      | Battery 1 | 2&3         | 462000 | 2310        | 17.44               | 17.90               | 1.112                  | -0.02            | 0.560                  | 0.623                  |
|          | FR1 n30_Ant 3 | 10M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 1           | 462000 | 2310        | 22.96               | 23.00               | 1.009                  | 0.02             | 0.105                  | 0.106                  |
|          | FR1 n30_Ant 3 | 10M      | BPSK       | 25      | 14        | Edge 4        | 0mm      | Battery 1 | 1           | 462000 | 2310        | 22.88               | 23.00               | 1.028                  | 0.07             | 0.101                  | 0.104                  |
|          | FR1 n30_Ant 3 | 10M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 462000 | 2310        | 17.51               | 17.90               | 1.094                  | 0.03             | 0.910                  | 0.996                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 28mm     | Battery 1 | 1           | 349000 | 1745        | 24.08               | 24.50               | 1.102                  | 0.09             | 0.437                  | 0.481                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Bottom Face   | 28mm     | Battery 1 | 1           | 349000 | 1745        | 24.01               | 24.50               | 1.119                  | 0.14             | 0.419                  | 0.469                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 1         | Edge 4        | 20mm     | Battery 1 | 1           | 349000 | 1745        | 24.08               | 24.50               | 1.102                  | -0.02            | 0.846                  | 0.932                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Edge 4        | 20mm     | Battery 1 | 1           | 349000 | 1745        | 24.01               | 24.50               | 1.119                  | 0.09             | 0.813                  | 0.910                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 216     | 0         | Edge 4        | 20mm     | Battery 1 | 1           | 349000 | 1745        | 23.55               | 24.00               | 1.109                  | 0.03             | 0.785                  | 0.871                  |
| 22       | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 15.28               | 16.00               | 1.180                  | 0.13             | 1.000                  | 1.180                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 15.25               | 16.00               | 1.189                  | 0.19             | 0.974                  | 1.158                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 216     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 15.22               | 16.00               | 1.197                  | 0.05             | 0.953                  | 1.140                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 1           | 349000 | 1745        | 24.08               | 24.50               | 1.102                  | 0.08             | 0.060                  | 0.066                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Edge 1        | 0mm      | Battery 1 | 1           | 349000 | 1745        | 24.01               | 24.50               | 1.119                  | -0.12            | 0.053                  | 0.059                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 15.28               | 16.00               | 1.180                  | -0.01            | 0.834                  | 0.984                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 108     | 54        | Edge 4        | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 15.25               | 16.00               | 1.189                  | -0.07            | 0.819                  | 0.973                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 216     | 0         | Edge 4        | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 15.22               | 16.00               | 1.197                  | -0.05            | 0.820                  | 0.981                  |
|          | FR1 n66_Ant 1 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 349000 | 1745        | 15.28               | 16.00               | 1.180                  | 0.13             | 0.596                  | 0.703                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 24mm     | Battery 1 | 1           | 349000 | 1745        | 24.10               | 24.50               | 1.096                  | 0.16             | 0.253                  | 0.277                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 108     | 54        | Bottom Face   | 24mm     | Battery 1 | 1           | 349000 | 1745        | 24.07               | 24.50               | 1.104                  | 0.14             | 0.229                  | 0.253                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 1       | 1         | Edge 1        | 27mm     | Battery 1 | 1           | 349000 | 1745        | 24.10               | 24.50               | 1.096                  | -0.14            | 0.236                  | 0.259                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 108     | 54        | Edge 1        | 27mm     | Battery 1 | 1           | 349000 | 1745        | 24.07               | 24.50               | 1.104                  | 0.15             | 0.217                  | 0.240                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 16.72               | 17.10               | 1.091                  | 0.09             | 1.060                  | 1.157                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 108     | 54        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 16.70               | 17.10               | 1.096                  | -0.17            | 1.030                  | 1.129                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 216     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 16.64               | 17.10               | 1.112                  | -0.08            | 1.010                  | 1.123                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 16.72               | 17.10               | 1.091                  | 0.13             | 0.992                  | 1.083                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 108     | 54        | Edge 1        | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 16.70               | 17.10               | 1.096                  | 0.09             | 0.982                  | 1.077                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 216     | 0         | Edge 1        | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 16.64               | 17.10               | 1.112                  | -0.03            | 0.976                  | 1.085                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 1           | 349000 | 1745        | 24.10               | 24.50               | 1.096                  | -0.1             | 0.133                  | 0.146                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 108     | 54        | Edge 4        | 0mm      | Battery 1 | 1           | 349000 | 1745        | 24.07               | 24.50               | 1.104                  | 0.12             | 0.125                  | 0.138                  |
|          | FR1 n66_Ant 4 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 349000 | 1745        | 16.72               | 17.10               | 1.091                  | 0.09             | 1.030                  | 1.124                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 1         | Bottom Face   | 28mm     | Battery 1 | 1           | 136100 | 680.5       | 24.10               | 24.50               | 1.096                  | -0.12            | 0.158                  | 0.173                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Bottom Face   | 28mm     | Battery 1 | 1           | 136100 | 680.5       | 24.07               | 24.50               | 1.104                  | 0                | 0.146                  | 0.161                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 1         | Edge 4        | 20mm     | Battery 1 | 1           | 136100 | 680.5       | 24.10               | 24.50               | 1.096                  | 0.12             | 0.132                  | 0.145                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Edge 4        | 20mm     | Battery 1 | 1           | 136100 | 680.5       | 24.07               | 24.50               | 1.104                  | 0.06             | 0.127                  | 0.140                  |
| 23       | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 136100 | 680.5       | 21.97               | 22.40               | 1.104                  | -0.02            | 1.060                  | 1.170                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 136100 | 680.5       | 21.93               | 22.40               | 1.114                  | 0.17             | 1.030                  | 1.148                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 136100 | 680.5       | 21.92               | 22.40               | 1.117                  | 0.09             | 1.020                  | 1.139                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 1           | 136100 | 680.5       | 24.10               | 24.50               | 1.096                  | -0.05            | 0.079                  | 0.087                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Edge 1        | 0mm      | Battery 1 | 1           | 136100 | 680.5       | 24.07               | 24.50               | 1.104                  | -0.17            | 0.068                  | 0.075                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 136100 | 680.5       | 21.97               | 22.40               | 1.104                  | -0.09            | 0.443                  | 0.489                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 50      | 28        | Edge 4        | 0mm      | Battery 1 | 2&3         | 136100 | 680.5       | 21.93               | 22.40               | 1.114                  | -0.14            | 0.429                  | 0.478                  |
|          | FR1 n71_Ant 1 | 20M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 136100 | 680.5       | 21.97               | 22.40               | 1.104                  | -0.02            | 0.816                  | 0.901                  |



# FCC SAR TEST REPORT

Report No. : FA371211A

| Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 24mm     | Battery 1 | 1           | 518598 | 2592.99     | 26.38               | 27.00               | 1.153                  | 100          | 1.000                     | 0.17             | 0.168                  | 0.194                  |
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 24mm     | Battery 1 | 1           | 518598 | 2592.99     | 26.22               | 27.00               | 1.197                  | 100          | 1.000                     | -0.19            | 0.143                  | 0.171                  |
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Edge 1        | 25mm     | Battery 1 | 1           | 518598 | 2592.99     | 26.38               | 27.00               | 1.153                  | 100          | 1.000                     | 0.06             | 0.453                  | 0.523                  |
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Edge 1        | 25mm     | Battery 1 | 1           | 518598 | 2592.99     | 26.22               | 27.00               | 1.197                  | 100          | 1.000                     | -0.11            | 0.429                  | 0.513                  |
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 15.81               | 16.80               | 1.256                  | 100          | 1.000                     | 0.07             | 0.928                  | 1.166                  |
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 15.77               | 16.80               | 1.268                  | 100          | 1.000                     | 0.01             | 0.897                  | 1.137                  |
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 270     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 15.75               | 16.80               | 1.274                  | 100          | 1.000                     | 0.17             | 0.899                  | 1.145                  |
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 15.81               | 16.80               | 1.256                  | 100          | 1.000                     | 0.14             | 0.618                  | 0.776                  |
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Edge 1        | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 15.77               | 16.80               | 1.268                  | 100          | 1.000                     | -0.04            | 0.602                  | 0.763                  |
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 1           | 518598 | 2592.99     | 26.38               | 27.00               | 1.153                  | 100          | 1.000                     | -0.17            | 0.341                  | 0.393                  |
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Edge 4        | 0mm      | Battery 1 | 1           | 518598 | 2592.99     | 26.22               | 27.00               | 1.197                  | 100          | 1.000                     | -0.19            | 0.323                  | 0.387                  |
|          | FR1 n41_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 518598 | 2592.99     | 15.81               | 16.80               | 1.256                  | 100          | 1.000                     | 0.07             | 0.872                  | 1.095                  |
| 24       | FR1 n41_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 14.06               | 14.50               | 1.107                  | 100          | 1.000                     | 0.03             | 1.070                  | 1.184                  |
|          | FR1 n41_HPUE_Ant 2 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 14.02               | 14.50               | 1.117                  | 100          | 1.000                     | 0.14             | 1.020                  | 1.139                  |
|          | FR1 n41_HPUE_Ant 2 | 100M     | BPSK       | 270     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 13.98               | 14.50               | 1.127                  | 100          | 1.000                     | -0.19            | 0.996                  | 1.123                  |
|          | FR1 n41_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 14.06               | 14.50               | 1.107                  | 100          | 1.000                     | -0.09            | 0.108                  | 0.120                  |
|          | FR1 n41_HPUE_Ant 2 | 100M     | BPSK       | 135     | 69        | Edge 1        | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 14.02               | 14.50               | 1.117                  | 100          | 1.000                     | 0.13             | 0.102                  | 0.114                  |
|          | FR1 n41_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 14.06               | 14.50               | 1.107                  | 100          | 1.000                     | 0.17             | 0.337                  | 0.373                  |
|          | FR1 n41_HPUE_Ant 2 | 100M     | BPSK       | 135     | 69        | Edge 4        | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 14.02               | 14.50               | 1.117                  | 100          | 1.000                     | -0.12            | 0.324                  | 0.362                  |
|          | FR1 n41_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 518598 | 2592.99     | 14.06               | 14.50               | 1.107                  | 100          | 1.000                     | 0.03             | 0.477                  | 0.528                  |
|          | FR1 n41_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 12.69               | 13.80               | 1.291                  | 100          | 1.000                     | -0.13            | 0.887                  | 1.145                  |
|          | FR1 n41_HPUE_Ant 5 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 12.66               | 13.80               | 1.300                  | 100          | 1.000                     | 0.17             | 0.845                  | 1.099                  |
|          | FR1 n41_HPUE_Ant 5 | 100M     | BPSK       | 270     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 12.59               | 13.80               | 1.321                  | 100          | 1.000                     | -0.1             | 0.842                  | 1.113                  |
|          | FR1 n41_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Edge 3        | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 12.69               | 13.80               | 1.291                  | 100          | 1.000                     | 0.04             | 0.125                  | 0.161                  |
|          | FR1 n41_HPUE_Ant 5 | 100M     | BPSK       | 135     | 69        | Edge 3        | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 12.66               | 13.80               | 1.300                  | 100          | 1.000                     | 0.04             | 0.119                  | 0.155                  |
|          | FR1 n41_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 12.69               | 13.80               | 1.291                  | 100          | 1.000                     | -0.12            | 0.526                  | 0.679                  |
|          | FR1 n41_HPUE_Ant 5 | 100M     | BPSK       | 135     | 69        | Edge 4        | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 12.66               | 13.80               | 1.300                  | 100          | 1.000                     | 0.12             | 0.507                  | 0.659                  |
|          | FR1 n41_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 518598 | 2592.99     | 12.69               | 13.80               | 1.291                  | 100          | 1.000                     | -0.13            | 0.172                  | 0.222                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 28mm     | Battery 1 | 1           | 518598 | 2592.99     | 22.87               | 23.50               | 1.156                  | 100          | 1.000                     | 0.05             | 0.211                  | 0.244                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 28mm     | Battery 1 | 1           | 518598 | 2592.99     | 22.81               | 23.50               | 1.172                  | 100          | 1.000                     | -0.13            | 0.205                  | 0.240                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Edge 2        | 30mm     | Battery 1 | 1           | 518598 | 2592.99     | 22.87               | 23.50               | 1.156                  | 100          | 1.000                     | -0.05            | 0.191                  | 0.221                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 135     | 69        | Edge 2        | 30mm     | Battery 1 | 1           | 518598 | 2592.99     | 22.81               | 23.50               | 1.172                  | 100          | 1.000                     | 0.02             | 0.179                  | 0.210                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 3           | 518598 | 2592.99     | 14.46               | 15.30               | 1.213                  | 100          | 1.000                     | -0.05            | 0.890                  | 1.080                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 0mm      | Battery 1 | 3           | 518598 | 2592.99     | 14.42               | 15.30               | 1.225                  | 100          | 1.000                     | 0.01             | 0.876                  | 1.073                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 270     | 0         | Bottom Face   | 0mm      | Battery 1 | 3           | 518598 | 2592.99     | 14.38               | 15.30               | 1.236                  | 100          | 1.000                     | 0.09             | 0.862                  | 1.065                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Edge 2        | 0mm      | Battery 1 | 3           | 518598 | 2592.99     | 14.46               | 15.30               | 1.213                  | 100          | 1.000                     | -0.12            | 0.428                  | 0.519                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 135     | 69        | Edge 2        | 0mm      | Battery 1 | 3           | 518598 | 2592.99     | 14.42               | 15.30               | 1.225                  | 100          | 1.000                     | 0.04             | 0.415                  | 0.508                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Edge 3        | 0mm      | Battery 1 | 1           | 518598 | 2592.99     | 22.87               | 23.50               | 1.156                  | 100          | 1.000                     | -0.06            | 0.046                  | 0.053                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 135     | 69        | Edge 3        | 0mm      | Battery 1 | 1           | 518598 | 2592.99     | 22.81               | 23.50               | 1.172                  | 100          | 1.000                     | -0.01            | 0.042                  | 0.049                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 3           | 518598 | 2592.99     | 14.46               | 15.30               | 1.213                  | 100          | 1.000                     | -0.05            | 0.323                  | 0.392                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 28mm     | Battery 1 | 1           | 518598 | 2592.99     | 22.87               | 23.50               | 1.156                  | 100          | 1.000                     | 0.05             | 0.211                  | 0.244                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 28mm     | Battery 1 | 1           | 518598 | 2592.99     | 22.81               | 23.50               | 1.172                  | 100          | 1.000                     | -0.13            | 0.205                  | 0.240                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Edge 2        | 30mm     | Battery 1 | 1           | 518598 | 2592.99     | 22.87               | 23.50               | 1.156                  | 100          | 1.000                     | -0.05            | 0.191                  | 0.221                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 135     | 69        | Edge 2        | 30mm     | Battery 1 | 1           | 518598 | 2592.99     | 22.81               | 23.50               | 1.172                  | 100          | 1.000                     | 0.02             | 0.179                  | 0.210                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2           | 518598 | 2592.99     | 6.76                | 7.60                | 1.213                  | 100          | 1.000                     | 0.07             | 0.151                  | 0.183                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 0mm      | Battery 1 | 2           | 518598 | 2592.99     | 6.72                | 7.60                | 1.225                  | 100          | 1.000                     | 0.12             | 0.139                  | 0.170                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Edge 2        | 0mm      | Battery 1 | 2           | 518598 | 2592.99     | 6.76                | 7.60                | 1.213                  | 100          | 1.000                     | 0.12             | 0.057                  | 0.069                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 135     | 69        | Edge 2        | 0mm      | Battery 1 | 2           | 518598 | 2592.99     | 6.72                | 7.60                | 1.225                  | 100          | 1.000                     | -0.08            | 0.052                  | 0.064                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Edge 3        | 0mm      | Battery 1 | 1           | 518598 | 2592.99     | 22.87               | 23.50               | 1.156                  | 100          | 1.000                     | -0.06            | 0.046                  | 0.053                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 135     | 69        | Edge 3        | 0mm      | Battery 1 | 1           | 518598 | 2592.99     | 22.81               | 23.50               | 1.172                  | 100          | 1.000                     | -0.01            | 0.042                  | 0.049                  |
|          | FR1 n41_HPUE_Ant 6 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 28mm     | Battery 2 | 1           | 518598 | 2592.99     | 22.87               | 23.50               | 1.156                  | 100          | 1.000                     | 0.05             | 0.208                  | 0.240                  |



# FCC SAR TEST REPORT

Report No. : FA371211A

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 638000 | 3570        | 20.78               | 22.00               | 1.324                  | 100          | 1.000                     | 0.13             | 0.592                  | 0.784                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 641667 | 3625        | 20.76               | 22.00               | 1.330                  | 100          | 1.000                     | -0.17            | 0.600                  | 0.798                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 1       | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 645333 | 3680        | 20.56               | 22.00               | 1.393                  | 100          | 1.000                     | 0.11             | 0.556                  | 0.775                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 50      | 25        | Bottom Face   | 24mm     | Battery 1 | 1           | 641667 | 3625        | 17.27               | 19.00               | 1.489                  | 100          | 1.000                     | 0.1              | 0.254                  | 0.378                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 1       | 0         | Edge 1        | 25mm     | Battery 1 | 1           | 638000 | 3570        | 20.78               | 22.00               | 1.324                  | 100          | 1.000                     | -0.02            | 0.192                  | 0.254                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 50      | 25        | Edge 1        | 25mm     | Battery 1 | 1           | 641667 | 3625        | 17.27               | 19.00               | 1.489                  | 100          | 1.000                     | -0.12            | 0.092                  | 0.137                  |
|          | FR1 n48_Ant 3 | 20M      | BPSK       | 25      | 12        | Bottom Face   | 24mm     | Battery 1 | 1           | 637334 | 3560.01     | 17.15               | 19.00               | 1.531                  | 100          | 1.000                     | 0.15             | 0.244                  | 0.374                  |
|          | FR1 n48_Ant 3 | 10M      | BPSK       | 12      | 6         | Bottom Face   | 24mm     | Battery 1 | 1           | 641667 | 3625        | 21.24               | 22.00               | 1.191                  | 100          | 1.000                     | 0.12             | 0.577                  | 0.687                  |
|          | FR1 n48_Ant 3 | 10M      | BPSK       | 12      | 6         | Bottom Face   | 24mm     | Battery 1 | 1           | 637000 | 3555        | 21.06               | 22.00               | 1.242                  | 100          | 1.000                     | -0.11            | 0.562                  | 0.698                  |
|          | FR1 n48_Ant 3 | 10M      | BPSK       | 12      | 6         | Bottom Face   | 24mm     | Battery 1 | 1           | 646332 | 3694.98     | 20.70               | 22.00               | 1.349                  | 100          | 1.000                     | 0.17             | 0.557                  | 0.751                  |
| 25       | FR1 n48_Ant 3 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 641667 | 3625        | 9.77                | 10.30               | 1.130                  | 100          | 1.000                     | 0.06             | 0.815                  | 0.921                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 638000 | 3570        | 9.70                | 10.30               | 1.148                  | 100          | 1.000                     | 0.1              | 0.547                  | 0.628                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 645333 | 3680        | 9.72                | 10.30               | 1.143                  | 100          | 1.000                     | 0.01             | 0.681                  | 0.778                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 50      | 25        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 641667 | 3625        | 9.73                | 10.30               | 1.140                  | 100          | 1.000                     | -0.05            | 0.794                  | 0.905                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 50      | 25        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 638000 | 3570        | 9.61                | 10.30               | 1.172                  | 100          | 1.000                     | -0.17            | 0.538                  | 0.631                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 50      | 25        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 645333 | 3680        | 9.60                | 10.30               | 1.175                  | 100          | 1.000                     | -0.15            | 0.629                  | 0.739                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 100     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 641667 | 3625        | 9.72                | 10.30               | 1.143                  | 100          | 1.000                     | 0.06             | 0.735                  | 0.840                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 641667 | 3625        | 9.77                | 10.30               | 1.130                  | 100          | 1.000                     | 0.13             | 0.239                  | 0.270                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 50      | 25        | Edge 1        | 0mm      | Battery 1 | 2&3         | 641667 | 3625        | 9.73                | 10.30               | 1.140                  | 100          | 1.000                     | 0.12             | 0.235                  | 0.268                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 1       | 0         | Edge 4        | 0mm      | Battery 1 | 1           | 638000 | 3570        | 20.78               | 22.00               | 1.324                  | 100          | 1.000                     | 0.02             | 0.140                  | 0.185                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 50      | 25        | Edge 4        | 0mm      | Battery 1 | 1           | 641667 | 3625        | 17.27               | 19.00               | 1.489                  | 100          | 1.000                     | -0.11            | 0.072                  | 0.107                  |
|          | FR1 n48_Ant 3 | 40M      | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 641667 | 3625        | 9.77                | 10.30               | 1.130                  | 100          | 1.000                     | 0.06             | 0.789                  | 0.891                  |

| Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 26       | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 24mm     | Battery 1 | 1           | 656000 | 3840        | 20.35               | 21.70               | 1.365                  | 100          | 1.000                     | 0.14             | 0.874                  | 1.193                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 24mm     | Battery 1 | 1           | 656000 | 3840        | 20.27               | 21.70               | 1.390                  | 100          | 1.000                     | 0.1              | 0.806                  | 1.120                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 270     | 0         | Bottom Face   | 24mm     | Battery 1 | 1           | 656000 | 3840        | 20.24               | 21.70               | 1.400                  | 100          | 1.000                     | 0.05             | 0.812                  | 1.136                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Edge 1        | 25mm     | Battery 1 | 1           | 656000 | 3840        | 20.35               | 21.70               | 1.365                  | 100          | 1.000                     | -0.12            | 0.188                  | 0.257                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Edge 1        | 25mm     | Battery 1 | 1           | 656000 | 3840        | 20.27               | 21.70               | 1.390                  | 100          | 1.000                     | 0.06             | 0.172                  | 0.239                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.35                | 10.60               | 1.334                  | 100          | 1.000                     | 0.07             | 0.719                  | 0.959                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.33                | 10.60               | 1.340                  | 100          | 1.000                     | -0.06            | 0.706                  | 0.946                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 270     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.27                | 10.60               | 1.358                  | 100          | 1.000                     | -0.06            | 0.685                  | 0.930                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.35                | 10.60               | 1.334                  | 100          | 1.000                     | -0.17            | 0.332                  | 0.443                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Edge 1        | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.33                | 10.60               | 1.340                  | 100          | 1.000                     | -0.09            | 0.323                  | 0.433                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 1           | 656000 | 3840        | 20.35               | 21.70               | 1.365                  | 100          | 1.000                     | 0.16             | 0.482                  | 0.658                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Edge 4        | 0mm      | Battery 1 | 1           | 656000 | 3840        | 20.27               | 21.70               | 1.390                  | 100          | 1.000                     | 0.12             | 0.453                  | 0.630                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 24mm     | Battery 2 | 1           | 656000 | 3840        | 20.35               | 21.70               | 1.365                  | 100          | 1.000                     | 0.14             | 0.802                  | 1.094                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 24mm     | Battery 1 | 1           | 633332 | 3499.98     | 20.25               | 21.70               | 1.396                  | 100          | 1.000                     | -0.07            | 0.238                  | 0.332                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 24mm     | Battery 1 | 1           | 633332 | 3499.98     | 20.24               | 21.70               | 1.400                  | 100          | 1.000                     | 0.15             | 0.222                  | 0.311                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Edge 1        | 25mm     | Battery 1 | 1           | 633332 | 3499.98     | 20.25               | 21.70               | 1.396                  | 100          | 1.000                     | -0.05            | 0.144                  | 0.201                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Edge 1        | 25mm     | Battery 1 | 1           | 633332 | 3499.98     | 20.24               | 21.70               | 1.400                  | 100          | 1.000                     | -0.04            | 0.132                  | 0.185                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.25                | 10.60               | 1.365                  | 100          | 1.000                     | 0.06             | 0.496                  | 0.677                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.22                | 10.60               | 1.374                  | 100          | 1.000                     | 0.19             | 0.473                  | 0.650                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.25                | 10.60               | 1.365                  | 100          | 1.000                     | -0.05            | 0.097                  | 0.132                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Edge 1        | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.22                | 10.60               | 1.374                  | 100          | 1.000                     | -0.11            | 0.088                  | 0.121                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 1           | 633332 | 3499.98     | 20.25               | 21.70               | 1.396                  | 100          | 1.000                     | -0.16            | 0.093                  | 0.130                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 135     | 69        | Edge 4        | 0mm      | Battery 1 | 1           | 633332 | 3499.98     | 20.24               | 21.70               | 1.400                  | 100          | 1.000                     | 0.1              | 0.054                  | 0.076                  |
|          | FR1 n77_HPUE_Ant 3 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 633332 | 3499.98     | 9.25                | 10.60               | 1.365                  | 100          | 1.000                     | 0.06             | 0.381                  | 0.520                  |



**FCC SAR TEST REPORT**

**Report No. : FA371211A**

| Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Battery   | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------------|----------|------------|---------|-----------|---------------|----------|-----------|-------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.57                | 10.50               | 1.239                  | 100          | 1.000                     | -0.14            | 0.719                  | 0.891                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.54                | 10.50               | 1.247                  | 100          | 1.000                     | -0.18            | 0.702                  | 0.876                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 270     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.47                | 10.50               | 1.268                  | 100          | 1.000                     | 0.09             | 0.683                  | 0.866                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.57                | 10.50               | 1.239                  | 100          | 1.000                     | 0.02             | 0.020                  | 0.025                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 135     | 69        | Edge 1        | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.54                | 10.50               | 1.247                  | 100          | 1.000                     | 0.16             | 0.016                  | 0.020                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.57                | 10.50               | 1.239                  | 100          | 1.000                     | -0.07            | 0.272                  | 0.337                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 135     | 69        | Edge 4        | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 9.54                | 10.50               | 1.247                  | 100          | 1.000                     | 0.16             | 0.259                  | 0.323                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 656000 | 3840        | 9.57                | 10.50               | 1.239                  | 100          | 1.000                     | -0.14            | 0.299                  | 0.370                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.51                | 10.50               | 1.256                  | 100          | 1.000                     | -0.13            | 0.925                  | 1.162                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.47                | 10.50               | 1.268                  | 100          | 1.000                     | -0.04            | 0.887                  | 1.124                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 270     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.42                | 10.50               | 1.282                  | 100          | 1.000                     | -0.17            | 0.898                  | 1.152                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Edge 1        | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.51                | 10.50               | 1.256                  | 100          | 1.000                     | 0                | 0.018                  | 0.023                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 135     | 69        | Edge 1        | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.47                | 10.50               | 1.268                  | 100          | 1.000                     | 0.05             | 0.011                  | 0.014                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.51                | 10.50               | 1.256                  | 100          | 1.000                     | 0.11             | 0.284                  | 0.357                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 135     | 69        | Edge 4        | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.47                | 10.50               | 1.268                  | 100          | 1.000                     | 0.16             | 0.268                  | 0.340                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 633332 | 3499.98     | 9.51                | 10.50               | 1.256                  | 100          | 1.000                     | -0.13            | 0.427                  | 0.536                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 11.27               | 12.00               | 1.183                  | 100          | 1.000                     | 0.18             | 0.993                  | 1.175                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 11.25               | 12.00               | 1.189                  | 100          | 1.000                     | -0.1             | 0.946                  | 1.124                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 270     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 11.20               | 12.00               | 1.202                  | 100          | 1.000                     | 0.05             | 0.937                  | 1.127                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Edge 3        | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 11.27               | 12.00               | 1.183                  | 100          | 1.000                     | -0.08            | 0.050                  | 0.059                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 135     | 69        | Edge 3        | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 11.25               | 12.00               | 1.189                  | 100          | 1.000                     | -0.06            | 0.043                  | 0.051                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 11.27               | 12.00               | 1.183                  | 100          | 1.000                     | 0                | 0.317                  | 0.375                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 135     | 69        | Edge 4        | 0mm      | Battery 1 | 2&3         | 656000 | 3840        | 11.25               | 12.00               | 1.189                  | 100          | 1.000                     | -0.06            | 0.292                  | 0.347                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 656000 | 3840        | 11.27               | 12.00               | 1.183                  | 100          | 1.000                     | 0.18             | 0.191                  | 0.226                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 11.23               | 12.00               | 1.194                  | 100          | 1.000                     | -0.02            | 0.713                  | 0.851                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 135     | 69        | Bottom Face   | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 11.22               | 12.00               | 1.197                  | 100          | 1.000                     | -0.09            | 0.695                  | 0.832                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 270     | 0         | Bottom Face   | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 11.14               | 12.00               | 1.219                  | 100          | 1.000                     | -0.02            | 0.681                  | 0.830                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Edge 3        | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 11.23               | 12.00               | 1.194                  | 100          | 1.000                     | -0.03            | 0.043                  | 0.051                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 135     | 69        | Edge 3        | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 11.22               | 12.00               | 1.197                  | 100          | 1.000                     | -0.06            | 0.035                  | 0.042                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Edge 4        | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 11.23               | 12.00               | 1.194                  | 100          | 1.000                     | -0.11            | 0.291                  | 0.347                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 135     | 69        | Edge 4        | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 11.22               | 12.00               | 1.197                  | 100          | 1.000                     | -0.06            | 0.274                  | 0.328                  |
|          | FR1 n77_HPUE_Ant 5 | 100M     | BPSK       | 1       | 1         | Bottom Face   | 0mm      | Battery 2 | 2&3         | 633332 | 3499.98     | 11.23               | 12.00               | 1.194                  | 100          | 1.000                     | -0.02            | 0.121                  | 0.144                  |



**FCC SAR TEST REPORT**

**Report No. : FA371211A**

| Plot No.           | Band | BW (MHz) | Modulation | RB Size | RB offset   | Test Position | Gap (mm)  | Battery | Power Index | Ch.     | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|--------------------|------|----------|------------|---------|-------------|---------------|-----------|---------|-------------|---------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 28mm          | Battery 1 | 1       | 656000      | 3840    | 24.00       | 25.00               | 1.259               | 100                    | 1.000        | -0.11                     | 0.271            | 0.341                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Bottom Face | 28mm          | Battery 1 | 1       | 656000      | 3840    | 23.82       | 25.00               | 1.312               | 100                    | 1.000        | -0.17                     | 0.245            | 0.321                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 2      | 30mm          | Battery 1 | 1       | 656000      | 3840    | 24.00       | 25.00               | 1.259               | 100                    | 1.000        | 0.01                      | 0.160            | 0.201                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 2      | 30mm          | Battery 1 | 1       | 656000      | 3840    | 23.82       | 25.00               | 1.312               | 100                    | 1.000        | -0.17                     | 0.148            | 0.194                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 0mm           | Battery 1 | 3       | 656000      | 3840    | 12.47       | 12.70               | 1.054               | 100                    | 1.000        | -0.18                     | 1.070            | 1.128                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Bottom Face | 0mm           | Battery 1 | 3       | 656000      | 3840    | 12.45       | 12.70               | 1.059               | 100                    | 1.000        | -0.19                     | 1.010            | 1.070                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 270        | 0       | Bottom Face | 0mm           | Battery 1 | 3       | 656000      | 3840    | 12.40       | 12.70               | 1.072               | 100                    | 1.000        | 0.11                      | 0.996            | 1.067                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 2      | 0mm           | Battery 1 | 3       | 656000      | 3840    | 12.47       | 12.70               | 1.054               | 100                    | 1.000        | -0.1                      | 0.332            | 0.350                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 2      | 0mm           | Battery 1 | 3       | 656000      | 3840    | 12.45       | 12.70               | 1.059               | 100                    | 1.000        | -0.05                     | 0.318            | 0.337                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 3      | 0mm           | Battery 1 | 1       | 656000      | 3840    | 24.00       | 25.00               | 1.259               | 100                    | 1.000        | -0.18                     | 0.038            | 0.048                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 3      | 0mm           | Battery 1 | 1       | 656000      | 3840    | 23.82       | 25.00               | 1.312               | 100                    | 1.000        | -0.1                      | 0.035            | 0.046                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 0mm           | Battery 2 | 3       | 656000      | 3840    | 12.47       | 12.70               | 1.054               | 100                    | 1.000        | -0.18                     | 0.196            | 0.207                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 28mm          | Battery 1 | 1       | 633332      | 3499.98 | 23.91       | 25.00               | 1.285               | 100                    | 1.000        | 0.01                      | 0.092            | 0.118                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Bottom Face | 28mm          | Battery 1 | 1       | 633332      | 3499.98 | 23.68       | 25.00               | 1.355               | 100                    | 1.000        | 0.03                      | 0.083            | 0.112                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 2      | 30mm          | Battery 1 | 1       | 633332      | 3499.98 | 23.91       | 25.00               | 1.285               | 100                    | 1.000        | -0.04                     | 0.055            | 0.071                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 2      | 30mm          | Battery 1 | 1       | 633332      | 3499.98 | 23.68       | 25.00               | 1.355               | 100                    | 1.000        | -0.03                     | 0.051            | 0.069                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 0mm           | Battery 1 | 3       | 633332      | 3499.98 | 12.43       | 12.70               | 1.064               | 100                    | 1.000        | -0.17                     | 0.724            | 0.770                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Bottom Face | 0mm           | Battery 1 | 3       | 633332      | 3499.98 | 12.42       | 12.70               | 1.067               | 100                    | 1.000        | -0.14                     | 0.663            | 0.707                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 270        | 0       | Bottom Face | 0mm           | Battery 1 | 3       | 633332      | 3499.98 | 12.34       | 12.70               | 1.086               | 100                    | 1.000        | 0.06                      | 0.692            | 0.752                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 2      | 30mm          | Battery 1 | 1       | 633332      | 3499.98 | 23.91       | 25.00               | 1.285               | 100                    | 1.000        | -0.08                     | 0.067            | 0.086                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 2      | 30mm          | Battery 1 | 1       | 633332      | 3499.98 | 23.68       | 25.00               | 1.355               | 100                    | 1.000        | 0.13                      | 0.059            | 0.080                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 2      | 0mm           | Battery 1 | 3       | 633332      | 3499.98 | 12.43       | 12.70               | 1.064               | 100                    | 1.000        | -0.1                      | 0.225            | 0.239                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 2      | 0mm           | Battery 1 | 3       | 633332      | 3499.98 | 12.42       | 12.70               | 1.067               | 100                    | 1.000        | 0.18                      | 0.210            | 0.224                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 3      | 0mm           | Battery 1 | 1       | 633332      | 3499.98 | 23.91       | 25.00               | 1.285               | 100                    | 1.000        | 0.15                      | 0.028            | 0.036                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 3      | 0mm           | Battery 1 | 1       | 633332      | 3499.98 | 23.68       | 25.00               | 1.355               | 100                    | 1.000        | -0.19                     | 0.022            | 0.030                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 0mm           | Battery 2 | 3       | 633332      | 3499.98 | 12.43       | 12.70               | 1.064               | 100                    | 1.000        | -0.17                     | 0.126            | 0.134                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 28mm          | Battery 1 | 1       | 656000      | 3840    | 24.00       | 25.00               | 1.259               | 100                    | 1.000        | -0.11                     | 0.271            | 0.341                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Bottom Face | 28mm          | Battery 1 | 1       | 656000      | 3840    | 23.82       | 25.00               | 1.312               | 100                    | 1.000        | -0.17                     | 0.245            | 0.321                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 2      | 30mm          | Battery 1 | 1       | 656000      | 3840    | 24.00       | 25.00               | 1.259               | 100                    | 1.000        | 0.01                      | 0.160            | 0.201                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 2      | 30mm          | Battery 1 | 1       | 656000      | 3840    | 23.82       | 25.00               | 1.312               | 100                    | 1.000        | -0.17                     | 0.148            | 0.194                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 0mm           | Battery 1 | 2       | 656000      | 3840    | 4.77        | 5.00                | 1.054               | 100                    | 1.000        | 0.06                      | 0.180            | 0.190                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Bottom Face | 0mm           | Battery 1 | 2       | 656000      | 3840    | 4.75        | 5.00                | 1.059               | 100                    | 1.000        | -0.17                     | 0.152            | 0.161                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 2      | 0mm           | Battery 1 | 2       | 656000      | 3840    | 4.77        | 5.00                | 1.054               | 100                    | 1.000        | -0.12                     | 0.060            | 0.063                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 2      | 0mm           | Battery 1 | 2       | 656000      | 3840    | 4.75        | 5.00                | 1.059               | 100                    | 1.000        | -0.17                     | 0.053            | 0.056                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 3      | 0mm           | Battery 1 | 1       | 656000      | 3840    | 24.00       | 25.00               | 1.259               | 100                    | 1.000        | -0.18                     | 0.038            | 0.048                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 3      | 0mm           | Battery 1 | 1       | 656000      | 3840    | 23.82       | 25.00               | 1.312               | 100                    | 1.000        | -0.1                      | 0.035            | 0.046                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 28mm          | Battery 2 | 1       | 656000      | 3840    | 24.00       | 25.00               | 1.259               | 100                    | 1.000        | -0.11                     | 0.250            | 0.315                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 28mm          | Battery 1 | 1       | 633332      | 3499.98 | 23.91       | 25.00               | 1.285               | 100                    | 1.000        | 0.01                      | 0.092            | 0.118                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Bottom Face | 28mm          | Battery 1 | 1       | 633332      | 3499.98 | 23.68       | 25.00               | 1.355               | 100                    | 1.000        | 0.03                      | 0.083            | 0.112                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 2      | 30mm          | Battery 1 | 1       | 633332      | 3499.98 | 23.91       | 25.00               | 1.285               | 100                    | 1.000        | -0.04                     | 0.055            | 0.071                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 2      | 30mm          | Battery 1 | 1       | 633332      | 3499.98 | 23.68       | 25.00               | 1.355               | 100                    | 1.000        | -0.03                     | 0.051            | 0.069                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 0mm           | Battery 1 | 2       | 633332      | 3499.98 | 4.73        | 5.00                | 1.064               | 100                    | 1.000        | 0.15                      | 0.125            | 0.133                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Bottom Face | 0mm           | Battery 1 | 2       | 633332      | 3499.98 | 4.72        | 5.00                | 1.067               | 100                    | 1.000        | 0                         | 0.109            | 0.116                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 2      | 0mm           | Battery 1 | 2       | 633332      | 3499.98 | 4.73        | 5.00                | 1.064               | 100                    | 1.000        | -0.19                     | 0.041            | 0.044                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 2      | 0mm           | Battery 1 | 2       | 633332      | 3499.98 | 4.72        | 5.00                | 1.067               | 100                    | 1.000        | 0.16                      | 0.033            | 0.035                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Edge 3      | 0mm           | Battery 1 | 1       | 633332      | 3499.98 | 23.91       | 25.00               | 1.285               | 100                    | 1.000        | 0.15                      | 0.028            | 0.036                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 135        | 69      | Edge 3      | 0mm           | Battery 1 | 1       | 633332      | 3499.98 | 23.68       | 25.00               | 1.355               | 100                    | 1.000        | -0.19                     | 0.022            | 0.030                  |                        |
| FR1 n77_HPUE_Ant 6 | 100M | BPSK     | 1          | 1       | Bottom Face | 0mm           | Battery 2 | 2       | 633332      | 3499.98 | 4.73        | 5.00                | 1.064               | 100                    | 1.000        | 0.15                      | 0.080            | 0.085                  |                        |



<WLAN SAR>

| Plot No. | Band       | Mode          | Test Position | Gap (mm) | Antenna    | Non-DBS/DBS | Power Reduction | Ch. | Freq. (MHz) | Battery   | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|---------------|---------------|----------|------------|-------------|-----------------|-----|-------------|-----------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 14mm     | Ant 7      | Non-DBS/DBS | OFF             | 1   | 2412        | Battery 1 | 23.00               | 23.00               | 1.000                  | 98.2         | 1.018                     | 0.03             | 0.408                  | 0.415                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 1        | 11mm     | Ant 7      | Non-DBS/DBS | OFF             | 1   | 2412        | Battery 1 | 23.00               | 23.00               | 1.000                  | 98.2         | 1.018                     | -0.08            | 0.326                  | 0.332                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 2        | 3mm      | Ant 7      | Non-DBS/DBS | OFF             | 1   | 2412        | Battery 1 | 23.00               | 23.00               | 1.000                  | 98.2         | 1.018                     | 0.09             | 0.389                  | 0.396                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7      | Non-DBS     | ON              | 1   | 2412        | Battery 1 | 17.50               | 17.50               | 1.000                  | 98.2         | 1.018                     | 0.14             | 0.856                  | 0.871                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7      | Non-DBS     | ON              | 6   | 2437        | Battery 1 | 17.40               | 17.50               | 1.023                  | 98.2         | 1.018                     | 0.06             | 0.821                  | 0.855                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7      | Non-DBS     | ON              | 11  | 2462        | Battery 1 | 17.20               | 17.50               | 1.072                  | 98.2         | 1.018                     | 0.03             | 0.929                  | 1.013                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 1        | 0mm      | Ant 7      | Non-DBS     | ON              | 1   | 2412        | Battery 1 | 17.50               | 17.50               | 1.000                  | 98.2         | 1.018                     | -0.07            | 0.260                  | 0.265                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 2        | 0mm      | Ant 7      | Non-DBS     | ON              | 1   | 2412        | Battery 1 | 17.50               | 17.50               | 1.000                  | 98.2         | 1.018                     | 0.04             | 0.189                  | 0.192                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7      | DBS         | ON              | 1   | 2412        | Battery 1 | 15.00               | 15.00               | 1.000                  | 98.2         | 1.018                     | 0.15             | 0.554                  | 0.564                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 1        | 0mm      | Ant 7      | DBS         | ON              | 1   | 2412        | Battery 1 | 15.00               | 15.00               | 1.000                  | 98.2         | 1.018                     | 0.15             | 0.190                  | 0.193                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 2        | 0mm      | Ant 7      | DBS         | ON              | 1   | 2412        | Battery 1 | 15.00               | 15.00               | 1.000                  | 98.2         | 1.018                     | 0.03             | 0.096                  | 0.098                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7      | Non-DBS     | ON              | 11  | 2462        | Battery 2 | 17.20               | 17.50               | 1.072                  | 98.2         | 1.018                     | 0.01             | 0.897                  | 0.978                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7      | Non-DBS     | ON              | 1   | 2412        | Battery 2 | 17.50               | 17.50               | 1.000                  | 98.2         | 1.018                     | 0.04             | 0.889                  | 0.905                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7      | Non-DBS     | ON              | 6   | 2437        | Battery 2 | 17.40               | 17.50               | 1.023                  | 98.2         | 1.018                     | -0.13            | 0.862                  | 0.898                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 14mm     | Ant 8      | Non-DBS/DBS | OFF             | 1   | 2412        | Battery 1 | 22.40               | 23.00               | 1.148                  | 98.2         | 1.018                     | 0.01             | 0.116                  | 0.136                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 2        | 3mm      | Ant 8      | Non-DBS/DBS | OFF             | 1   | 2412        | Battery 1 | 22.40               | 23.00               | 1.148                  | 98.2         | 1.018                     | 0.07             | 0.278                  | 0.325                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 3        | 0mm      | Ant 8      | Non-DBS/DBS | OFF             | 1   | 2412        | Battery 1 | 22.40               | 23.00               | 1.148                  | 98.2         | 1.018                     | 0.04             | 0.192                  | 0.224                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 8      | Non-DBS     | ON              | 1   | 2412        | Battery 1 | 17.10               | 17.50               | 1.096                  | 98.2         | 1.018                     | -0.08            | 0.553                  | 0.617                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 2        | 0mm      | Ant 8      | Non-DBS     | ON              | 1   | 2412        | Battery 1 | 17.10               | 17.50               | 1.096                  | 98.2         | 1.018                     | 0                | 0.349                  | 0.390                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 8      | DBS         | ON              | 1   | 2412        | Battery 1 | 14.50               | 15.00               | 1.122                  | 98.2         | 1.018                     | 0.02             | 0.255                  | 0.291                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 2        | 0mm      | Ant 8      | DBS         | ON              | 1   | 2412        | Battery 1 | 14.50               | 15.00               | 1.122                  | 98.2         | 1.018                     | 0.16             | 0.161                  | 0.184                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 8      | Non-DBS     | ON              | 1   | 2412        | Battery 2 | 17.10               | 17.50               | 1.096                  | 98.2         | 1.018                     | -0.06            | 0.132                  | 0.147                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 14mm     | Ant 7+8(8) | Non-DBS/DBS | OFF             | 1   | 2412        | Battery 1 | 22.40               | 23.00               | 1.148                  | 98.2         | 1.018                     | -0.01            | 0.441                  | 0.515                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 1        | 11mm     | Ant 7+8(8) | Non-DBS/DBS | OFF             | 1   | 2412        | Battery 1 | 22.40               | 23.00               | 1.148                  | 98.2         | 1.018                     | -0.06            | 0.358                  | 0.418                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 2        | 3mm      | Ant 7+8(8) | Non-DBS/DBS | OFF             | 1   | 2412        | Battery 1 | 22.40               | 23.00               | 1.148                  | 98.2         | 1.018                     | 0.15             | 0.412                  | 0.482                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 3        | 0mm      | Ant 7+8(8) | Non-DBS/DBS | OFF             | 1   | 2412        | Battery 1 | 22.40               | 23.00               | 1.148                  | 98.2         | 1.018                     | 0.01             | 0.209                  | 0.244                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | ON              | 1   | 2412        | Battery 1 | 17.30               | 17.50               | 1.047                  | 98.2         | 1.018                     | -0.13            | 0.875                  | 0.933                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | ON              | 6   | 2437        | Battery 1 | 17.20               | 17.50               | 1.072                  | 98.2         | 1.018                     | -0.16            | 0.588                  | 0.641                  |
| 27       | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | ON              | 11  | 2462        | Battery 1 | 17.10               | 17.50               | 1.096                  | 98.2         | 1.018                     | -0.01            | 0.915                  | 1.021                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 1        | 0mm      | Ant 7+8(8) | Non-DBS     | ON              | 1   | 2412        | Battery 1 | 17.30               | 17.50               | 1.047                  | 98.2         | 1.018                     | -0.06            | 0.388                  | 0.414                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 2        | 0mm      | Ant 7+8(8) | Non-DBS     | ON              | 1   | 2412        | Battery 1 | 17.30               | 17.50               | 1.047                  | 98.2         | 1.018                     | 0.15             | 0.198                  | 0.211                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7+8(8) | DBS         | ON              | 1   | 2412        | Battery 1 | 14.60               | 15.00               | 1.096                  | 98.2         | 1.018                     | 0.01             | 0.485                  | 0.541                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 1        | 0mm      | Ant 7+8(8) | DBS         | ON              | 1   | 2412        | Battery 1 | 14.60               | 15.00               | 1.096                  | 98.2         | 1.018                     | -0.06            | 0.191                  | 0.213                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Edge 2        | 0mm      | Ant 7+8(8) | DBS         | ON              | 1   | 2412        | Battery 1 | 14.60               | 15.00               | 1.096                  | 98.2         | 1.018                     | -0.09            | 0.140                  | 0.156                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | ON              | 11  | 2462        | Battery 2 | 17.10               | 17.50               | 1.096                  | 98.2         | 1.018                     | -0.02            | 0.875                  | 0.977                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | ON              | 1   | 2412        | Battery 2 | 17.30               | 17.50               | 1.047                  | 98.2         | 1.018                     | -0.08            | 0.858                  | 0.915                  |
|          | WLAN2.4GHz | 802.11b 1Mbps | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | ON              | 6   | 2437        | Battery 2 | 17.20               | 17.50               | 1.072                  | 98.2         | 1.018                     | 0.01             | 0.792                  | 0.864                  |



**FCC SAR TEST REPORT**

**Report No. : FA371211A**

| Plot No. | Band     | Mode                 | Test Position | Gap (mm) | Antenna    | Non-DBS/DBS | Power Reduction | Ch. | Freq. (MHz) | Battery   | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|----------------------|---------------|----------|------------|-------------|-----------------|-----|-------------|-----------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | WLAN5GHz | 802.11n-HT40 MCS0    | Bottom Face   | 14mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 54  | 5270        | Battery 1 | 17.00               | 17.50               | 1.122                  | 100          | 1.000                     | -0.09            | 0.484                  | 0.543                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0    | Edge 1        | 11mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 54  | 5270        | Battery 1 | 17.00               | 17.50               | 1.122                  | 100          | 1.000                     | 0.05             | 0.197                  | 0.221                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0    | Edge 2        | 3mm      | Ant 7+8(7) | Non-DBS/DBS | OFF             | 54  | 5270        | Battery 1 | 17.00               | 17.50               | 1.122                  | 100          | 1.000                     | 0.14             | 0.453                  | 0.508                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0    | Edge 3        | 0mm      | Ant 7+8(7) | Non-DBS/DBS | OFF             | 54  | 5270        | Battery 1 | 17.00               | 17.50               | 1.122                  | 100          | 1.000                     | -0.11            | 0.098                  | 0.110                  |
| 28       | WLAN5GHz | 802.11ac-VHT160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 50  | 5250        | Battery 1 | 11.90               | 12.00               | 1.023                  | 99.2         | 1.008                     | 0                | 1.150                  | 1.186                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 58  | 5290        | Battery 1 | 11.80               | 12.00               | 1.047                  | 99.4         | 1.006                     | 0.07             | 1.019                  | 1.073                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Edge 1        | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 50  | 5250        | Battery 1 | 11.90               | 12.00               | 1.023                  | 99.2         | 1.008                     | 0.03             | 0.220                  | 0.227                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Edge 2        | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 50  | 5250        | Battery 1 | 11.90               | 12.00               | 1.023                  | 99.2         | 1.008                     | 0.18             | 0.357                  | 0.368                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(7) | DBS         | ON              | 50  | 5250        | Battery 1 | 9.30                | 9.50                | 1.047                  | 99.2         | 1.008                     | 0.05             | 0.614                  | 0.648                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Edge 1        | 0mm      | Ant 7+8(7) | DBS         | ON              | 50  | 5250        | Battery 1 | 9.30                | 9.50                | 1.047                  | 99.2         | 1.008                     | 0.13             | 0.106                  | 0.112                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Edge 2        | 0mm      | Ant 7+8(7) | DBS         | ON              | 50  | 5250        | Battery 1 | 9.30                | 9.50                | 1.047                  | 99.2         | 1.008                     | -0.19            | 0.124                  | 0.131                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 50  | 5250        | Battery 2 | 11.90               | 12.00               | 1.023                  | 99.4         | 1.006                     | 0.02             | 1.090                  | 1.122                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 58  | 5290        | Battery 2 | 11.80               | 12.00               | 1.047                  | 99.4         | 1.006                     | 0.08             | 0.988                  | 1.041                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Bottom Face   | 14mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 138 | 5690        | Battery 1 | 16.80               | 17.50               | 1.175                  | 99.4         | 1.006                     | -0.16            | 0.484                  | 0.572                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Edge 1        | 11mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 138 | 5690        | Battery 1 | 16.80               | 17.50               | 1.175                  | 99.4         | 1.006                     | -0.16            | 0.226                  | 0.267                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Edge 2        | 3mm      | Ant 7+8(7) | Non-DBS/DBS | OFF             | 138 | 5690        | Battery 1 | 16.80               | 17.50               | 1.175                  | 99.4         | 1.006                     | -0.14            | 0.401                  | 0.474                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Edge 3        | 0mm      | Ant 7+8(7) | Non-DBS/DBS | OFF             | 138 | 5690        | Battery 1 | 16.80               | 17.50               | 1.175                  | 99.4         | 1.006                     | 0.01             | 0.135                  | 0.160                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 114 | 5570        | Battery 1 | 10.80               | 11.00               | 1.047                  | 99.2         | 1.008                     | -0.19            | 1.092                  | 1.153                  |
| 29       | WLAN5GHz | 802.11ac-VHT80 MCS0  | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 138 | 5690        | Battery 1 | 10.90               | 11.00               | 1.023                  | 99.4         | 1.006                     | -0.18            | 1.140                  | 1.174                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Edge 1        | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 114 | 5570        | Battery 1 | 10.80               | 11.00               | 1.047                  | 99.2         | 1.008                     | 0.07             | 0.354                  | 0.374                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Edge 2        | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 114 | 5570        | Battery 1 | 10.80               | 11.00               | 1.047                  | 99.2         | 1.008                     | 0.06             | 0.138                  | 0.146                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(7) | DBS         | ON              | 114 | 5570        | Battery 1 | 8.30                | 8.50                | 1.047                  | 99.2         | 1.008                     | 0.02             | 0.588                  | 0.621                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Edge 1        | 0mm      | Ant 7+8(7) | DBS         | ON              | 114 | 5570        | Battery 1 | 8.30                | 8.50                | 1.047                  | 99.2         | 1.008                     | -0.05            | 0.156                  | 0.165                  |
|          | WLAN5GHz | 802.11ac-VHT160 MCS0 | Edge 2        | 0mm      | Ant 7+8(7) | DBS         | ON              | 114 | 5570        | Battery 1 | 8.30                | 8.50                | 1.047                  | 99.2         | 1.008                     | -0.18            | 0.101                  | 0.107                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 138 | 5690        | Battery 2 | 10.90               | 11.00               | 1.023                  | 99.4         | 1.006                     | -0.11            | 1.025                  | 1.055                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 106 | 5530        | Battery 2 | 10.70               | 11.00               | 1.072                  | 99.4         | 1.006                     | -0.05            | 0.994                  | 1.071                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 122 | 5610        | Battery 2 | 10.70               | 11.00               | 1.072                  | 99.4         | 1.006                     | 0.18             | 0.964                  | 1.039                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Bottom Face   | 14mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 155 | 5775        | Battery 1 | 16.90               | 17.50               | 1.148                  | 99.4         | 1.006                     | -0.16            | 0.543                  | 0.627                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Edge 1        | 11mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 155 | 5775        | Battery 1 | 16.90               | 17.50               | 1.148                  | 99.4         | 1.006                     | -0.19            | 0.276                  | 0.319                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Edge 2        | 3mm      | Ant 7+8(7) | Non-DBS/DBS | OFF             | 155 | 5775        | Battery 1 | 16.90               | 17.50               | 1.148                  | 99.4         | 1.006                     | -0.08            | 0.473                  | 0.546                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Edge 3        | 0mm      | Ant 7+8(7) | Non-DBS/DBS | OFF             | 155 | 5775        | Battery 1 | 16.90               | 17.50               | 1.148                  | 99.4         | 1.006                     | -0.01            | 0.137                  | 0.158                  |
| 30       | WLAN5GHz | 802.11ac-VHT80 MCS0  | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 155 | 5775        | Battery 1 | 10.00               | 10.50               | 1.122                  | 99.4         | 1.006                     | -0.19            | 0.917                  | 1.035                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0    | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 159 | 5795        | Battery 1 | 10.20               | 10.50               | 1.072                  | 99.7         | 1.003                     | 0.13             | 0.891                  | 0.958                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Edge 1        | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 155 | 5775        | Battery 1 | 10.00               | 10.50               | 1.122                  | 99.4         | 1.006                     | -0.01            | 0.345                  | 0.389                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Edge 2        | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 155 | 5775        | Battery 1 | 10.00               | 10.50               | 1.122                  | 99.4         | 1.006                     | -0.13            | 0.194                  | 0.219                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Bottom Face   | 0mm      | Ant 7+8(7) | DBS         | ON              | 155 | 5775        | Battery 1 | 8.10                | 8.50                | 1.096                  | 99.4         | 1.006                     | -0.19            | 0.496                  | 0.547                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Edge 1        | 0mm      | Ant 7+8(7) | DBS         | ON              | 155 | 5775        | Battery 1 | 8.10                | 8.50                | 1.096                  | 99.4         | 1.006                     | 0.09             | 0.157                  | 0.173                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Edge 2        | 0mm      | Ant 7+8(7) | DBS         | ON              | 155 | 5775        | Battery 1 | 8.10                | 8.50                | 1.096                  | 99.4         | 1.006                     | -0.02            | 0.092                  | 0.101                  |
|          | WLAN5GHz | 802.11ac-VHT80 MCS0  | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 155 | 5775        | Battery 2 | 10.00               | 10.50               | 1.122                  | 99.4         | 1.006                     | -0.04            | 0.855                  | 0.965                  |
|          | WLAN5GHz | 802.11n-HT40 MCS0    | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | ON              | 159 | 5795        | Battery 2 | 10.20               | 10.50               | 1.072                  | 99.4         | 1.006                     | 0.01             | 0.832                  | 0.897                  |





# FCC SAR TEST REPORT

Report No. : FA371211A

| Plot No. | Band     | Mode                | Test Position | Gap (mm) | Antenna    | Non-DBS/DBS | Power State | Ch. | Freq. (MHz) | Battery   | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Measured APD (W/m <sup>2</sup> ) | Reported APD (W/m <sup>2</sup> ) |
|----------|----------|---------------------|---------------|----------|------------|-------------|-------------|-----|-------------|-----------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|----------------------------------|----------------------------------|
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 14mm     | Ant 7+8(8) | Non-DBS/DBS | 1           | 15  | 6025        | Battery 1 | 13.30               | 14.00               | 1.175                  | 99.31        | 1.007                     | 0.09             | 0.296                  | 0.350                  | 2.3                              | 2.721                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 14mm     | Ant 7+8(8) | Non-DBS/DBS | 1           | 47  | 6185        | Battery 1 | 13.60               | 14.00               | 1.096                  | 99.31        | 1.007                     | 0.13             | 0.268                  | 0.296                  | 2.09                             | 2.308                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 14mm     | Ant 7+8(7) | Non-DBS/DBS | 1           | 111 | 6505        | Battery 1 | 14.20               | 15.00               | 1.202                  | 99.31        | 1.007                     | -0.02            | 0.337                  | 0.408                  | 2.66                             | 3.220                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 14mm     | Ant 7+8(8) | Non-DBS/DBS | 1           | 143 | 6665        | Battery 1 | 13.90               | 14.00               | 1.023                  | 99.31        | 1.007                     | -0.11            | 0.493                  | 0.508                  | 3.75                             | 3.864                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 14mm     | Ant 7+8(7) | Non-DBS/DBS | 1           | 207 | 6985        | Battery 1 | 13.50               | 14.00               | 1.122                  | 99.31        | 1.007                     | -0.01            | 0.348                  | 0.393                  | 2.75                             | 3.107                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 1        | 11mm     | Ant 7+8(8) | Non-DBS/DBS | 1           | 111 | 6505        | Battery 1 | 14.80               | 15.00               | 1.047                  | 99.31        | 1.007                     | -0.16            | 0.142                  | 0.150                  | 1.08                             | 1.139                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 2        | 3mm      | Ant 7+8(8) | Non-DBS/DBS | 1           | 111 | 6505        | Battery 1 | 14.80               | 15.00               | 1.047                  | 99.31        | 1.007                     | 0.14             | 0.308                  | 0.325                  | 2.34                             | 2.467                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 3        | 0mm      | Ant 7+8(8) | Non-DBS/DBS | 1           | 111 | 6505        | Battery 1 | 14.80               | 15.00               | 1.047                  | 99.31        | 1.007                     | 0                | 0.088                  | 0.093                  | 0.67                             | 0.706                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | 2           | 15  | 6025        | Battery 1 | 8.10                | 9.00                | 1.230                  | 99.31        | 1.007                     | 0.06             | 0.539                  | 0.668                  | 2.7                              | 3.345                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | 2           | 47  | 6185        | Battery 1 | 8.10                | 9.00                | 1.230                  | 99.31        | 1.007                     | -0.12            | 0.403                  | 0.499                  | 2.03                             | 2.515                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | 2           | 111 | 6505        | Battery 1 | 9.10                | 10.00               | 1.230                  | 99.31        | 1.007                     | -0.06            | 0.657                  | 0.814                  | 3.7                              | 4.584                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | 2           | 143 | 6665        | Battery 1 | 9.40                | 9.50                | 1.023                  | 99.31        | 1.007                     | 0.09             | 0.637                  | 0.656                  | 3.82                             | 3.936                            |
| 31       | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | 2           | 207 | 6985        | Battery 1 | 11.50               | 12.00               | 1.122                  | 99.31        | 1.007                     | -0.07            | 0.836                  | 0.945                  | 5.25                             | 5.932                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 1        | 0mm      | Ant 7+8(8) | Non-DBS     | 2           | 207 | 6985        | Battery 1 | 11.50               | 12.00               | 1.122                  | 99.31        | 1.007                     | 0.05             | 0.246                  | 0.278                  | 1.54                             | 1.740                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 2        | 0mm      | Ant 7+8(8) | Non-DBS     | 2           | 207 | 6985        | Battery 1 | 11.50               | 12.00               | 1.122                  | 99.31        | 1.007                     | 0.14             | 0.327                  | 0.369                  | 2.26                             | 2.554                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(7) | DBS         | 3           | 207 | 6985        | Battery 1 | 8.70                | 9.00                | 1.072                  | 99.31        | 1.007                     | 0.13             | 0.559                  | 0.603                  | 3.34                             | 3.604                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 1        | 0mm      | Ant 7+8(8) | DBS         | 3           | 207 | 6985        | Battery 1 | 9.30                | 9.50                | 1.047                  | 99.31        | 1.007                     | 0.09             | 0.166                  | 0.175                  | 1.06                             | 1.118                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 2        | 0mm      | Ant 7+8(8) | DBS         | 3           | 207 | 6985        | Battery 1 | 9.30                | 9.50                | 1.047                  | 99.31        | 1.007                     | 0.12             | 0.209                  | 0.220                  | 1.85                             | 1.951                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | 2           | 207 | 6985        | Battery 2 | 11.50               | 12.00               | 1.122                  | 99.31        | 1.007                     | -0.01            | 0.792                  | 0.895                  | 3.92                             | 4.429                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | 2           | 15  | 6025        | Battery 2 | 8.10                | 9.00                | 1.230                  | 99.31        | 1.007                     | -0.11            | 0.518                  | 0.642                  | 2.5                              | 3.097                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | 2           | 47  | 6185        | Battery 2 | 8.10                | 9.00                | 1.230                  | 99.31        | 1.007                     | 0.12             | 0.431                  | 0.534                  | 2.02                             | 2.503                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(7) | Non-DBS     | 2           | 111 | 6505        | Battery 2 | 9.10                | 10.00               | 1.230                  | 99.31        | 1.007                     | 0.04             | 0.605                  | 0.750                  | 3.61                             | 4.472                            |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 0mm      | Ant 7+8(8) | Non-DBS     | 2           | 143 | 6665        | Battery 2 | 9.40                | 9.50                | 1.023                  | 99.31        | 1.007                     | 0.18             | 0.601                  | 0.619                  | 3.72                             | 3.833                            |

## <Bluetooth SAR>

| Plot No. | Band      | Mode  | Test Position | Gap (mm) | Antenna | Ch. | Freq. (MHz) | Battery   | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------|-------|---------------|----------|---------|-----|-------------|-----------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|          | Bluetooth | 1Mbps | Bottom Face   | 0mm      | Ant 7   | 39  | 2441        | Battery 1 | 5.67                | 6.00                | 1.079                  | 76.8         | 1.085                     | 0.04             | 0.025                  | 0.029                  |
|          | Bluetooth | 1Mbps | Bottom Face   | 0mm      | Ant 7   | 0   | 2402        | Battery 1 | 5.49                | 6.00                | 1.125                  | 76.8         | 1.085                     | 0.13             | 0.031                  | 0.038                  |
| 32       | Bluetooth | 1Mbps | Bottom Face   | 0mm      | Ant 7   | 78  | 2480        | Battery 1 | 4.42                | 6.00                | 1.439                  | 76.8         | 1.085                     | -0.07            | 0.044                  | 0.069                  |
|          | Bluetooth | 1Mbps | Edge 1        | 0mm      | Ant 7   | 39  | 2441        | Battery 1 | 5.67                | 6.00                | 1.079                  | 76.8         | 1.085                     | 0.16             | 0.001                  | 0.001                  |
|          | Bluetooth | 1Mbps | Edge 2        | 0mm      | Ant 7   | 39  | 2441        | Battery 1 | 5.67                | 6.00                | 1.079                  | 76.8         | 1.085                     | -0.18            | 0.001                  | 0.001                  |
|          | Bluetooth | 1Mbps | Bottom Face   | 0mm      | Ant 7   | 78  | 2480        | Battery 2 | 4.42                | 6.00                | 1.439                  | 76.8         | 1.085                     | -0.12            | 0.041                  | 0.064                  |
|          | Bluetooth | 3Mbps | Bottom Face   | 0mm      | Ant 8   | 78  | 2480        | Battery 1 | 5.70                | 6.00                | 1.072                  | 77.07        | 1.081                     | -0.09            | 0.056                  | 0.065                  |
|          | Bluetooth | 3Mbps | Bottom Face   | 0mm      | Ant 8   | 39  | 2441        | Battery 1 | 5.36                | 6.00                | 1.159                  | 77.07        | 1.081                     | -0.04            | 0.042                  | 0.053                  |
|          | Bluetooth | 3Mbps | Bottom Face   | 0mm      | Ant 8   | 0   | 2402        | Battery 1 | 5.52                | 6.00                | 1.117                  | 77.07        | 1.081                     | -0.13            | 0.036                  | 0.043                  |
|          | Bluetooth | 3Mbps | Edge 2        | 0mm      | Ant 8   | 78  | 2480        | Battery 1 | 5.70                | 6.00                | 1.072                  | 77.07        | 1.081                     | 0.09             | 0.001                  | 0.001                  |
|          | Bluetooth | 3Mbps | Edge 3        | 0mm      | Ant 8   | 78  | 2480        | Battery 1 | 5.70                | 6.00                | 1.072                  | 77.07        | 1.081                     | -0.12            | 0.001                  | 0.001                  |
|          | Bluetooth | 3Mbps | Bottom Face   | 0mm      | Ant 8   | 78  | 2480        | Battery 2 | 5.70                | 6.00                | 1.072                  | 77.07        | 1.081                     | -0.04            | 0.012                  | 0.014                  |

## <NFC SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Freq. (MHz) | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------|------|---------------|----------|-------------|------------------|------------------------|------------------------|
| 33       | NFC  | ASK  | Bottom Face   | 0mm      | 13.56       | 0                | 0.003                  | 0.003                  |
|          | NFC  | ASK  | Edge 1        | 0mm      | 13.56       | -0.1             | 0.001                  | 0.001                  |
|          | NFC  | ASK  | Edge 2        | 0mm      | 13.56       | 0.02             | 0.001                  | 0.001                  |



17.2 6GHz PD SAR Result

| Band     | Mode                | Test Position | Gap (mm) | Antenna    | Non-DBS/DBS | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Grid Step (λ) | iPDn | iPD ratio (≥ -1) | Normal psPD (W/m <sup>2</sup> ) | Total psPD (W/m <sup>2</sup> ) |
|----------|---------------------|---------------|----------|------------|-------------|-----------------|-----|-------------|---------------------|---------------|------|------------------|---------------------------------|--------------------------------|
| WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(7) | Non-DBS     | ON              | 15  | 6025        | 8.70                | 0.0625        | 13.2 | 1.906443711      | 3.74                            | 3.81                           |
| WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 10mm     | Ant 7+8(7) | Non-DBS     | ON              | 15  | 6025        | 8.70                | 0.25          | 8.51 |                  | 1.67                            | 1.81                           |
| WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(7) | Non-DBS     | ON              | 207 | 6985        | 10.80               | 0.0625        | 7.68 | -0.78426607      | 4                               | 4.17                           |
| WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 8.59mm   | Ant 7+8(7) | Non-DBS     | ON              | 207 | 6985        | 10.80               | 0.25          | 9.2  |                  | 2.75                            | 2.91                           |

| Plot No. | Band     | Mode                | Test Position | Gap (mm) | Antenna    | Non-DBS/DBS | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Grid Step (λ) | Scaling Factor for Measurement Uncertainty | Power Drift (dB) | Normal psPD (W/m <sup>2</sup> ) | Scaled Normal psPD (W/m <sup>2</sup> ) | Total psPD (W/m <sup>2</sup> ) | Scaled Total psPD (W/m <sup>2</sup> ) |
|----------|----------|---------------------|---------------|----------|------------|-------------|-----------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|---------------|--|------------------|---------------------------------|--|--------------------------------|---------------------------------------|
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(7) | Non-DBS     | ON              | 15  | 6025        | 8.70                | 9.00                | 1.072                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.08            | 3.74                            | 6.27                                   | 3.81                           | 6.39                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(7) | Non-DBS     | ON              | 47  | 6185        | 8.40                | 9.00                | 1.148                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | 0.09             | 3.93                            | 7.06                                   | 4.03                           | 7.24                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(7) | Non-DBS     | ON              | 111 | 6505        | 9.10                | 10.00               | 1.230                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.02            | 2.87                            | 5.52                                   | 3.03                           | 5.83                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(7) | Non-DBS     | ON              | 143 | 6665        | 9.00                | 9.00                | 1.000                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.03            | 4.44                            | 6.95                                   | 4.56                           | 7.13                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(7) | Non-DBS     | ON              | 207 | 6985        | 10.80               | 11.00               | 1.047                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.03            | 4                               | 6.55                                   | 4.17                           | 6.83                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 1        | 2mm      | Ant 7+8(7) | Non-DBS     | ON              | 207 | 6985        | 10.80               | 11.00               | 1.047                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.07            | 1.23                            | 2.01                                   | 1.42                           | 2.33                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(8) | Non-DBS     | ON              | 15  | 6025        | 8.10                | 9.00                | 1.230                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.06            | 1.69                            | 3.25                                   | 1.83                           | 3.52                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(8) | Non-DBS     | ON              | 47  | 6185        | 8.10                | 9.00                | 1.230                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | 0.08             | 1.51                            | 2.91                                   | 1.79                           | 3.45                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(8) | Non-DBS     | ON              | 111 | 6505        | 9.80                | 10.00               | 1.047                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.17            | 2.32                            | 3.80                                   | 2.71                           | 4.44                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(8) | Non-DBS     | ON              | 143 | 6665        | 9.40                | 9.50                | 1.023                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | 0.07             | 3.71                            | 5.94                                   | 3.81                           | 6.10                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 2mm      | Ant 7+8(8) | Non-DBS     | ON              | 207 | 6985        | 11.50               | 12.00               | 1.122                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.06            | 2.89                            | 5.07                                   | 3.04                           | 5.34                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 2        | 2mm      | Ant 7+8(8) | Non-DBS     | ON              | 207 | 6985        | 11.50               | 12.00               | 1.122                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.01            | 1.62                            | 2.84                                   | 1.91                           | 3.35                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 14mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 15  | 6025        | 13.60               | 14.00               | 1.096                  | 99.31        | 1.007                     | 0.25          | 1.5535                                     | -0.07            | 4.12                            | 7.07                                   | 4.32                           | 7.41                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 14mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 47  | 6185        | 13.90               | 14.00               | 1.023                  | 99.31        | 1.007                     | 0.25          | 1.5535                                     | -0.04            | 4.23                            | 6.77                                   | 4.42                           | 7.08                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 14mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 111 | 6505        | 14.20               | 15.00               | 1.202                  | 99.31        | 1.007                     | 0.25          | 1.5535                                     | -0.07            | 3.54                            | 6.66                                   | 3.92                           | 7.37                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 14mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 143 | 6665        | 13.50               | 13.50               | 1.000                  | 99.31        | 1.007                     | 0.25          | 1.5535                                     | -0.09            | 4.36                            | 6.82                                   | 4.44                           | 6.95                                  |
| 01       | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 14mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 207 | 6985        | 13.50               | 14.00               | 1.122                  | 99.31        | 1.007                     | 0.25          | 1.5535                                     | -0.02            | 4.12                            | 7.23                                   | 4.27                           | 7.49                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 1        | 11mm     | Ant 7+8(7) | Non-DBS/DBS | OFF             | 111 | 6505        | 14.20               | 15.00               | 1.202                  | 99.31        | 1.007                     | 0.25          | 1.5535                                     | -0.05            | 1.5                             | 2.82                                   | 1.61                           | 3.03                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 2        | 2mm      | Ant 7+8(7) | Non-DBS/DBS | OFF             | 111 | 6505        | 14.20               | 15.00               | 1.202                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | 0.03             | 0.686                           | 1.29                                   | 0.708                          | 1.33                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 2        | 3mm      | Ant 7+8(8) | Non-DBS/DBS | OFF             | 15  | 6025        | 13.30               | 14.00               | 1.175                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.01            | 2.38                            | 4.37                                   | 2.53                           | 4.65                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 2        | 3mm      | Ant 7+8(8) | Non-DBS/DBS | OFF             | 47  | 6185        | 13.60               | 14.00               | 1.096                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | 0.02             | 1.88                            | 3.22                                   | 2.27                           | 3.89                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 2        | 3mm      | Ant 7+8(8) | Non-DBS/DBS | OFF             | 111 | 6505        | 14.80               | 15.00               | 1.047                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.1             | 2.57                            | 4.21                                   | 2.76                           | 4.52                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 2        | 3mm      | Ant 7+8(8) | Non-DBS/DBS | OFF             | 143 | 6665        | 13.90               | 14.00               | 1.023                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | 0.02             | 2.73                            | 4.37                                   | 2.81                           | 4.50                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 2        | 3mm      | Ant 7+8(8) | Non-DBS/DBS | OFF             | 207 | 6985        | 13.90               | 14.00               | 1.023                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | -0.1             | 2.55                            | 4.08                                   | 2.68                           | 4.29                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Bottom Face   | 14mm     | Ant 7+8(8) | Non-DBS/DBS | OFF             | 111 | 6505        | 14.80               | 15.00               | 1.047                  | 99.31        | 1.007                     | 0.25          | 1.5535                                     | -0.04            | 2.26                            | 3.70                                   | 2.71                           | 4.44                                  |
|          | WLAN6GHz | 802.11ax-HE160 MCS0 | Edge 3        | 2mm      | Ant 7+8(8) | Non-DBS/DBS | OFF             | 111 | 6505        | 14.80               | 15.00               | 1.047                  | 99.31        | 1.007                     | 0.0625        | 1.5535                                     | 0.06             | 0.997                           | 1.63                                   | 1.04                           | 1.70                                  |

**17.3 Repeated SAR Measurement**

| No. | Band               | Mode          | Test Position | Gap (mm) | Battery   | Power Index | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Ratio | Reported 1g SAR (W/kg) |
|-----|--------------------|---------------|---------------|----------|-----------|-------------|--------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|-------|------------------------|
| 1st | WCDMA V_Ant 1      | RMC 12.2Kbps  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 4182   | 836.4       | 20.11               | 20.5                | 1.094                  |              |                           | -0.06            | 1.04                   | -     | 1.138                  |
| 2nd | WCDMA V_Ant 1      | RMC 12.2Kbps  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 4182   | 836.4       | 20.11               | 20.5                | 1.094                  |              |                           | 0.02             | 1.01                   | 1.030 | 1.105                  |
| 1st | LTE Band 48_Ant 3  | 20M_QPSK_1_0  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 56640  | 3690        | 11.39               | 12.2                | 1.205                  | 62.9         | 1.006                     | 0.04             | 0.969                  | -     | 1.175                  |
| 2nd | LTE Band 48_Ant 3  | 20M_QPSK_1_0  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 56640  | 3690        | 11.39               | 12.2                | 1.205                  | 62.9         | 1.006                     | 0.03             | 0.849                  | 1.142 | 1.029                  |
| 1st | FR1 n12_Ant 1      | 15M_BPSK_1_1  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 141500 | 707.5       | 21.41               | 21.8                | 1.094                  |              |                           | -0.03            | 1.08                   | -     | 1.181                  |
| 2nd | FR1 n12_Ant 1      | 15M_BPSK_1_1  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 141500 | 707.5       | 21.41               | 21.8                | 1.094                  |              |                           | -0.07            | 1.02                   | 1.059 | 1.116                  |
| 1st | FR1 n25_Ant 1      | 40M_BPSK_1_1  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 17.25               | 17.7                | 1.109                  |              |                           | 0.04             | 1.06                   | -     | 1.176                  |
| 2nd | FR1 n25_Ant 1      | 40M_BPSK_1_1  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 376500 | 1882.5      | 17.25               | 17.7                | 1.109                  |              |                           | 0.11             | 1                      | 1.060 | 1.109                  |
| 1st | FR1 n30_Ant 3      | 10M_BPSK_1_1  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 462000 | 2310        | 17.51               | 17.9                | 1.094                  |              |                           | 0.03             | 1.08                   | -     | 1.181                  |
| 2nd | FR1 n30_Ant 3      | 10M_BPSK_1_1  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 462000 | 2310        | 17.51               | 17.9                | 1.094                  |              |                           | 0.07             | 1.02                   | 1.059 | 1.116                  |
| 1st | FR1 n66_Ant 4      | 40M_BPSK_1_1  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 16.72               | 17.1                | 1.091                  |              |                           | 0.09             | 1.06                   | -     | 1.157                  |
| 2nd | FR1 n66_Ant 4      | 40M_BPSK_1_1  | Bottom Face   | 0mm      | Battery 1 | 2&3         | 349000 | 1745        | 16.72               | 17.1                | 1.091                  |              |                           | 0.05             | 1.04                   | 1.019 | 1.135                  |
| 1st | FR1 n41_HPUE_Ant 2 | 100M_BPSK_1_1 | Bottom Face   | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 14.06               | 14.5                | 1.107                  |              |                           | 0.03             | 1.07                   | -     | 1.184                  |
| 2nd | FR1 n41_HPUE_Ant 2 | 100M_BPSK_1_1 | Bottom Face   | 0mm      | Battery 1 | 2&3         | 518598 | 2592.99     | 14.06               | 14.5                | 1.107                  |              |                           | -0.07            | 1.02                   | 1.049 | 1.129                  |
| 1st | FR1 n77_HPUE_Ant 2 | 100M_BPSK_1_1 | Bottom Face   | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.51                | 10.5                | 1.256                  |              |                           | -0.13            | 0.925                  | -     | 1.162                  |
| 2nd | FR1 n77_HPUE_Ant 2 | 100M_BPSK_1_1 | Bottom Face   | 0mm      | Battery 1 | 2&3         | 633332 | 3499.98     | 9.51                | 10.5                | 1.256                  |              |                           | 0.08             | 0.914                  | 1.012 | 1.148                  |
| 1st | FR1 n77_HPUE_Ant 6 | 100M_BPSK_1_1 | Bottom Face   | 0mm      | Battery 1 | 3           | 656000 | 3840        | 12.47               | 12.7                | 1.054                  |              |                           | -0.18            | 1.07                   | -     | 1.128                  |
| 2nd | FR1 n77_HPUE_Ant 6 | 100M_BPSK_1_1 | Bottom Face   | 0mm      | Battery 1 | 3           | 656000 | 3840        | 12.47               | 12.7                | 1.054                  |              |                           | 0.09             | 0.986                  | 1.085 | 1.04                   |

**General Note:**

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8W/kg$ .
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45W/kg$ , only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.



**17.4 LTE Band 41 Power Class 2 and Power Class 3 Linearity**

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required

Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

|                                     | LTE Band 41_Ant 3<br>(Power Class 3) | LTE Band 41_Ant 3<br>(Power Class 2) |
|-------------------------------------|--------------------------------------|--------------------------------------|
| Maximum Tune up Power (dBm)         | 16.8                                 | 18.4                                 |
| Reported 1g SAR (W/kg)              | 1.163                                | 1.079                                |
| Duty Cycle                          | 63.30%                               | 43.30%                               |
| Frame Averaged (mW)                 | 30.30                                | 29.96                                |
| Linearity SAR(W/kg)                 | 1.15                                 |                                      |
| % deviation from expected linearity |                                      | -6.17%                               |
|                                     |                                      |                                      |
|                                     | LTE Band 41_Ant 2<br>(Power Class 3) | LTE Band 41_Ant 2<br>(Power Class 2) |
| Maximum Tune up Power (dBm)         | 16.7                                 | 18.3                                 |
| Reported 1g SAR (W/kg)              | 1.149                                | 1.098                                |
| Duty Cycle                          | 63.30%                               | 43.30%                               |
| Frame Averaged (mW)                 | 29.61                                | 29.27                                |
| Linearity SAR(W/kg)                 | 1.14                                 |                                      |
| % deviation from expected linearity |                                      | -3.35%                               |

**18. Simultaneous Transmission Analysis**

| NO.     | Simultaneous Transmission Configurations                             | Body |
|---------|--|------|
| Non-DBS |  |      |
| 1.      | WWAN + WLAN2.4GHz Ant 7 + WLAN2.4GHz Ant 8 + NFC                     | Yes  |
| 2.      | WWAN + WLAN2.4GHz Ant 8 + Bluetooth Ant 7 + NFC                      | Yes  |
| 3.      | WWAN + WLAN2.4GHz Ant 7 + Bluetooth Ant 8 + NFC                      | Yes  |
| 4.      | WWAN + WLAN5G/6GHz Ant 7+WLAN5G/6GHz Ant 8+Bluetooth Ant 7 + NFC     | Yes  |
| 5.      | WWAN + WLAN5G/6GHz Ant 7+WLAN5G/6GHz Ant 8+Bluetooth Ant 8 + NFC     | Yes  |
| DBS     |  |      |
| 6.      | WWAN +WLAN2.4GHz Ant 7+8 + WLAN5GHz Ant 7+8 + NFC                    | Yes  |
| 7.      | WWAN +WLAN2.4GHz Ant 8 + WLAN5G/6GHz Ant 7+8 + Bluetooth Ant 7 + NFC | Yes  |
| 8.      | WWAN +WLAN2.4GHz Ant 7+ WLAN5G/6GHz Ant 7+8 + Bluetooth Ant 8 + NFC  | Yes  |

**General Note:**

1. The worst case WLAN reported SAR for each configuration was used for SAR summation. Therefore, the following summations represent the absolute worst cases for simultaneous transmission with WLAN.
2. 2.4GHz WLAN RF exposure assessment of MIMO mode simultaneous transmission exclusion analysis was performed with SAR test results of each antenna in SISO mode. Therefore SPLSR calculation was choose worst case with SAR test results of each antenna in SISO mode perform evaluation.
3. The Scaled SAR summation is calculated based on the same configuration and test position.
4. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - i) Scalar SAR summation < 1.6W/kg.
  - ii)  $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - iii) If  $SPLSR \leq 0.04$ , simultaneously transmission SAR measurement is not necessary.
  - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
  - v) The SPLSR calculated results please refer to section 18.3.



**18.1 5G NR + LTE + WLAN + BT Sim-Tx analysis**

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

$$x\% * A + (100-x)\% * B \leq 1.0,$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and  $A \leq 1.0$ ; B is normalized reported time-averaged exposure ratio from 5G NR (i.e., PD exposure for 5G FR2 or SAR exposure for 5G FR1), and  $B \leq 1.0$ .

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x\% * A + (100-x)\% * B + C \leq 1.0 \quad (1)$$

$$x\% * A + (100-x)\% * B \leq x\% * \max(A, B) + (100-x)\% * \max(A, B) \leq \max(A, B)$$

$$x\% * A + (100-x)\% * B + C \leq \max(A, B) + C \leq 1.0 \quad (2)$$

if  $A + C \leq 1.0$  and  $B + C \leq 1.0$  can be proven, then " $x\% * A + (100-x)\% * B + C \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

- Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1
- Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1



**18.2 Body Exposure Conditions**

<Non-DBS>

| Exposure Position | 1             | 2                | 3                | 4                  | 5                   | 6               | 7               | 1+4 Summed 1g SAR (W/kg) | 1+5+6 Summed 1g SAR (W/kg) | 1+3+6 Summed 1g SAR (W/kg) | 1+5+7 Summed 1g SAR (W/kg) | 1+2+7 Summed 1g SAR (W/kg) |
|-------------------|---------------|------------------|------------------|--------------------|---------------------|-----------------|-----------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|                   | NFC           | WLAN2.4GHz Ant 7 | WLAN2.4GHz Ant 8 | WLAN2.4GHz Ant 7+8 | WLAN5G/6GHz Ant 7+8 | Bluetooth Ant 7 | Bluetooth Ant 8 |                          |                            |                            |                            |                            |
|                   | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)      | 1g SAR (W/kg)       | 1g SAR (W/kg)   | 1g SAR (W/kg)   |                          |                            |                            |                            |                            |
| Bottom Face       | 0.003         | 1.013            | 0.617            | 1.021              | 1.186               | 0.069           | 0.065           | <b>1.024</b>             | <b>1.258</b>               | <b>0.689</b>               | <b>1.254</b>               | <b>1.081</b>               |
| Edge 1            | 0.001         | 0.265            |                  | 0.414              | 0.389               | 0.001           |                 | <b>0.415</b>             | <b>0.391</b>               | <b>0.002</b>               | <b>0.390</b>               | <b>0.266</b>               |
| Edge 2            | 0.001         | 0.192            | 0.390            | 0.211              | 0.369               | 0.001           | 0.001           | <b>0.212</b>             | <b>0.371</b>               | <b>0.392</b>               | <b>0.371</b>               | <b>0.194</b>               |
| Edge 3            |               |                  | 0.224            | 0.244              | 0.160               |                 | 0.001           | <b>0.244</b>             | <b>0.160</b>               | <b>0.224</b>               | <b>0.161</b>               | <b>0.001</b>               |

| Ant   | Exposure Position  | 1             | 2             | 3                 | 4                 | 5                   | 6                    | 7               | 8               | 1+2+5 Summed 1g SAR (W/kg) | 1+2+6+7 Summed 1g SAR (W/kg) | 1+2+4+7 Summed 1g SAR (W/kg) | 1+2+6+8 Summed 1g SAR (W/kg) | 1+2+3+8 Summed 1g SAR (W/kg) | Case No | SPLSR | Case No | SPLSR | Case No | SPLSR | Case No | SPLSR | Case No | SPLSR |
|-------|--------------------|---------------|---------------|-------------------|-------------------|---------------------|----------------------|-----------------|-----------------|----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|       |                    | Maximum WWAN  | NFC           | WLAN 2.4GHz Ant 7 | WLAN 2.4GHz Ant 8 | WLAN 2.4GHz Ant 7+8 | WLAN 5G/6GHz Ant 7+8 | Bluetooth Ant 7 | Bluetooth Ant 8 |                            |                              |                              |                              |                              |         |       |         |       |         |       |         |       |         |       |
|       |                    | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)       | 1g SAR (W/kg)        | 1g SAR (W/kg)   | 1g SAR (W/kg)   |                            |                              |                              |                              |                              |         |       |         |       |         |       |         |       |         |       |
| Ant 1 | Bottom Face at 0mm | 1.187         | 0.003         | 1.013             | 0.617             | 1.021               | 1.186                | 0.069           | 0.065           | 2.211                      | 2.445                        | 1.876                        | 2.441                        | 2.268                        | 1       | 0.02  | 6       | 0.01  | 11      | 0.01  | 16      | 0.01  | 21      | 0.02  |
|       | Edge 1 at 0mm      | 0.374         | 0.001         | 0.265             |                   | 0.414               | 0.389                | 0.001           |                 | 0.789                      | 0.765                        | 0.376                        | 0.764                        | 0.640                        |         |       |         |       |         |       |         |       |         |       |
|       | Edge 3 at 0mm      | 0.128         |               |                   | 0.224             | 0.244               | 0.160                |                 | 0.001           | 0.372                      | 0.288                        | 0.352                        | 0.289                        | 0.129                        |         |       |         |       |         |       |         |       |         |       |
|       | Edge 4 at 0mm      | 0.992         |               |                   |                   |                     |                      |                 |                 | 0.992                      | 0.992                        | 0.992                        | 0.992                        | 0.992                        |         |       |         |       |         |       |         |       |         |       |
| Ant 2 | Bottom Face at 0mm | 1.184         | 0.003         | 1.013             | 0.617             | 1.021               | 1.186                | 0.069           | 0.065           | 2.208                      | 2.442                        | 1.873                        | 2.438                        | 2.265                        | 2       | 0.02  | 7       | 0.01  | 12      | 0.01  | 17      | 0.01  | 22      | 0.02  |
|       | Edge 1 at 0mm      | 0.120         | 0.001         | 0.265             |                   | 0.414               | 0.389                | 0.001           |                 | 0.535                      | 0.511                        | 0.122                        | 0.510                        | 0.386                        |         |       |         |       |         |       |         |       |         |       |
|       | Edge 4 at 0mm      | 0.373         |               |                   |                   |                     |                      |                 |                 | 0.373                      | 0.373                        | 0.373                        | 0.373                        | 0.373                        |         |       |         |       |         |       |         |       |         |       |
| Ant 3 | Bottom Face at 0mm | 1.181         | 0.003         | 1.013             | 0.617             | 1.021               | 1.186                | 0.069           | 0.065           | 2.205                      | 2.439                        | 1.870                        | 2.435                        | 2.262                        | 3       | 0.02  | 8       | 0.02  | 13      | 0.01  | 18      | 0.02  | 23      | 0.02  |
|       | Edge 1 at 0mm      | 0.776         | 0.001         | 0.265             |                   | 0.414               | 0.389                | 0.001           |                 | 1.191                      | 1.167                        | 0.778                        | 1.166                        | 1.042                        |         |       |         |       |         |       |         |       |         |       |
|       | Edge 4 at 0mm      | 0.658         |               |                   |                   |                     |                      |                 |                 | 0.658                      | 0.658                        | 0.658                        | 0.658                        | 0.658                        |         |       |         |       |         |       |         |       |         |       |
| Ant 4 | Bottom Face at 0mm | 1.157         | 0.003         | 1.013             | 0.617             | 1.021               | 1.186                | 0.069           | 0.065           | 2.181                      | 2.415                        | 1.846                        | 2.411                        | 2.238                        | 4       | 0.02  | 9       | 0.01  | 14      | 0.01  | 19      | 0.01  | 24      | 0.02  |
|       | Edge 1 at 0mm      | 1.091         | 0.001         | 0.265             |                   | 0.414               | 0.389                | 0.001           |                 | 1.506                      | 1.482                        | 1.093                        | 1.481                        | 1.357                        |         |       |         |       |         |       |         |       |         |       |
|       | Edge 4 at 0mm      | 0.335         |               |                   |                   |                     |                      |                 |                 | 0.335                      | 0.335                        | 0.335                        | 0.335                        | 0.335                        |         |       |         |       |         |       |         |       |         |       |
| Ant 5 | Bottom Face at 0mm | 1.175         | 0.003         | 1.013             | 0.617             | 1.021               | 1.186                | 0.069           | 0.065           | 2.199                      | 2.433                        | 1.864                        | 2.429                        | 2.256                        | 5       | 0.01  | 10      | 0.02  | 15      | 0.01  | 20      | 0.02  | 25      | 0.01  |
|       | Edge 3 at 0mm      | 0.161         |               |                   | 0.224             | 0.244               | 0.160                |                 | 0.001           | 0.405                      | 0.321                        | 0.385                        | 0.322                        | 0.162                        |         |       |         |       |         |       |         |       |         |       |
|       | Edge 4 at 0mm      | 0.679         |               |                   |                   |                     |                      |                 |                 | 0.679                      | 0.679                        | 0.679                        | 0.679                        | 0.679                        |         |       |         |       |         |       |         |       |         |       |
| Ant 6 | Bottom Face at 0mm | 0.190         | 0.003         | 1.013             | 0.617             | 1.021               | 1.186                | 0.069           | 0.065           | 1.214                      | 1.448                        | 0.879                        | 1.444                        | 1.271                        |         |       |         |       |         |       |         |       |         |       |
|       | Edge 2 at 0mm      | 0.069         | 0.001         | 0.192             | 0.390             | 0.211               | 0.369                | 0.001           | 0.001           | 0.281                      | 0.440                        | 0.461                        | 0.440                        | 0.263                        |         |       |         |       |         |       |         |       |         |       |
|       | Edge 3 at 0mm      | 0.053         |               |                   | 0.224             | 0.244               | 0.160                |                 | 0.001           | 0.297                      | 0.213                        | 0.277                        | 0.214                        | 0.054                        |         |       |         |       |         |       |         |       |         |       |



<DBS>

| Exposure Position | 1             | 2                | 3                | 4                  | 5                   | 6               | 7               | 1+3+5+6 Summed 1g SAR (W/kg) | 1+4+5 Summed 1g SAR (W/kg) | 1+2+5+7 Summed 1g SAR (W/kg) |
|-------------------|---------------|------------------|------------------|--------------------|---------------------|-----------------|-----------------|------------------------------|----------------------------|------------------------------|
|                   | NFC           | WLAN2.4GHz Ant 7 | WLAN2.4GHz Ant 8 | WLAN2.4GHz Ant 7+8 | WLAN5G/6GHz Ant 7+8 | Bluetooth Ant 7 | Bluetooth Ant 8 |                              |                            |                              |
|                   | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)      | 1g SAR (W/kg)       | 1g SAR (W/kg)   | 1g SAR (W/kg)   |                              |                            |                              |
| Bottom Face       | 0.003         | 0.564            | 0.291            | 0.541              | 0.648               | 0.069           | 0.065           | 1.011                        | 1.192                      | 1.280                        |
| Edge 1            | 0.001         | 0.193            |                  | 0.213              | 0.278               | 0.001           |                 | 0.280                        | 0.492                      | 0.472                        |
| Edge 2            | 0.001         | 0.098            | 0.184            | 0.156              | 0.369               | 0.001           | 0.001           | 0.555                        | 0.526                      | 0.469                        |
| Edge 3            |               |                  | 0.224            | 0.244              | 0.160               |                 | 0.001           | 0.384                        | 0.404                      | 0.161                        |

| Ant   | Exposure Position  | 1             | 2             | 3                 | 4                 | 5                   | 6                    | 7               | 8               | 1+2+4+6+7 Summed 1g SAR (W/kg) | 1+2+5+6 Summed 1g SAR (W/kg) | 1+2+3+6+8 Summed 1g SAR (W/kg) | Case No | SPLSR | Case No | SPLSR | Case No | SPLSR |
|-------|--------------------|---------------|---------------|-------------------|-------------------|---------------------|----------------------|-----------------|-----------------|--------------------------------|------------------------------|--------------------------------|---------|-------|---------|-------|---------|-------|
|       |                    | Maximum WWAN  | NFC           | WLAN 2.4GHz Ant 7 | WLAN 2.4GHz Ant 8 | WLAN 2.4GHz Ant 7+8 | WLAN 5G/6GHz Ant 7+8 | Bluetooth Ant 7 | Bluetooth Ant 8 |                                |                              |                                |         |       |         |       |         |       |
|       |                    | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)       | 1g SAR (W/kg)        | 1g SAR (W/kg)   | 1g SAR (W/kg)   |                                |                              |                                |         |       |         |       |         |       |
| Ant 1 | Bottom Face at 0mm | 1.187         | 0.003         | 0.564             | 0.291             | 0.541               | 0.648                | 0.069           | 0.065           | 2.198                          | 2.379                        | 2.467                          | 26      | 0.01  | 31      | 0.01  | 36      | 0.01  |
|       | Edge 1 at 0mm      | 0.374         | 0.001         | 0.193             |                   | 0.213               | 0.278                | 0.001           |                 | 0.654                          | 0.866                        | 0.846                          |         |       |         |       |         |       |
|       | Edge 3 at 0mm      | 0.128         |               |                   | 0.224             | 0.244               | 0.160                |                 | 0.001           | 0.512                          | 0.532                        | 0.289                          |         |       |         |       |         |       |
|       | Edge 4 at 0mm      | 0.992         |               |                   |                   |                     |                      |                 |                 | 0.992                          | 0.992                        | 0.992                          |         |       |         |       |         |       |
| Ant 2 | Bottom Face at 0mm | 1.184         | 0.003         | 0.564             | 0.291             | 0.541               | 0.648                | 0.069           | 0.065           | 2.195                          | 2.376                        | 2.464                          | 27      | 0.01  | 32      | 0.01  | 37      | 0.01  |
|       | Edge 1 at 0mm      | 0.120         | 0.001         | 0.193             |                   | 0.213               | 0.278                | 0.001           |                 | 0.400                          | 0.612                        | 0.592                          |         |       |         |       |         |       |
|       | Edge 4 at 0mm      | 0.373         |               |                   |                   |                     |                      |                 |                 | 0.373                          | 0.373                        | 0.373                          |         |       |         |       |         |       |
| Ant 3 | Bottom Face at 0mm | 1.181         | 0.003         | 0.564             | 0.291             | 0.541               | 0.648                | 0.069           | 0.065           | 2.192                          | 2.373                        | 2.461                          | 28      | 0.01  | 33      | 0.02  | 38      | 0.02  |
|       | Edge 1 at 0mm      | 0.776         | 0.001         | 0.193             |                   | 0.213               | 0.278                | 0.001           |                 | 1.056                          | 1.268                        | 1.248                          |         |       |         |       |         |       |
|       | Edge 4 at 0mm      | 0.658         |               |                   |                   |                     |                      |                 |                 | 0.658                          | 0.658                        | 0.658                          |         |       |         |       |         |       |
| Ant 4 | Bottom Face at 0mm | 1.157         | 0.003         | 0.564             | 0.291             | 0.541               | 0.648                | 0.069           | 0.065           | 2.168                          | 2.349                        | 2.437                          | 29      | 0.01  | 34      | 0.01  | 39      | 0.01  |
|       | Edge 1 at 0mm      | 1.091         | 0.001         | 0.193             |                   | 0.213               | 0.278                | 0.001           |                 | 1.371                          | 1.583                        | 1.563                          |         |       |         |       |         |       |
|       | Edge 4 at 0mm      | 0.335         |               |                   |                   |                     |                      |                 |                 | 0.335                          | 0.335                        | 0.335                          |         |       |         |       |         |       |
| Ant 5 | Bottom Face at 0mm | 1.175         | 0.003         | 0.564             | 0.291             | 0.541               | 0.648                | 0.069           | 0.065           | 2.186                          | 2.367                        | 2.455                          | 30      | 0.01  | 35      | 0.01  | 40      | 0.02  |
|       | Edge 3 at 0mm      | 0.161         |               |                   | 0.224             | 0.244               | 0.160                |                 | 0.001           | 0.545                          | 0.565                        | 0.322                          |         |       |         |       |         |       |
|       | Edge 4 at 0mm      | 0.679         |               |                   |                   |                     |                      |                 |                 | 0.679                          | 0.679                        | 0.679                          |         |       |         |       |         |       |
| Ant 6 | Bottom Face at 0mm | 0.190         | 0.003         | 0.564             | 0.291             | 0.541               | 0.648                | 0.069           | 0.065           | 1.201                          | 1.382                        | 1.470                          |         |       |         |       |         |       |
|       | Edge 2 at 0mm      | 0.069         | 0.001         | 0.098             | 0.184             | 0.156               | 0.369                | 0.001           | 0.001           | 0.624                          | 0.595                        | 0.538                          |         |       |         |       |         |       |
|       | Edge 3 at 0mm      | 0.053         |               |                   | 0.224             | 0.244               | 0.160                |                 | 0.001           | 0.437                          | 0.457                        | 0.214                          |         |       |         |       |         |       |



**18.3 SPLSR Evaluation and Analysis**

**General Note:**

- SPLSR =  $(SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$ . If  $SPLSR \leq 0.04$ , simultaneously transmission SAR measurement is not necessary
- The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.
- Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneously transmitting antenna. When the sum of 1-g or 10-g SAR of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit, SAR test exclusion applies to that simultaneous transmission configuration. Therefore, the adjacent transmit antennas will be summed first, and then the SPLSR calculation will be evaluated with the farther transmitted antennas

**Non DBS**

|        | Band           | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|----------------|-------------|------------|----------|------------------------|--------|--------|------------------|-------------------|---------------|------------------|
|        |                |             |            |          | X                      | Y      | Z      |                  |                   |               |                  |
|        |                |             |            |          |                        |        |        |                  |                   |               |                  |
| Case 1 | FR1 n13_Ant 1  | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   | 161.0            | 1.19              | 0.01          | Not required     |
|        | NFC            | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|        | NFC            | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 81.2             | 1.02              | 0.01          | Not required     |
|        | WLAN2.4G MIMO  | Bottom Face | 1.021      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|        | FR1 n13_Ant 1  | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   | 206.2            | 2.21              | 0.02          | Not required     |
|        | WLAN2.4G MIMO  | Bottom Face | 1.021      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
| Case 2 | n41_HPUE_Ant 2 | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 166.1            | 1.19              | 0.01          | Not required     |
|        | NFC            | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|        | NFC            | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 81.2             | 1.02              | 0.01          | Not required     |
|        | WLAN2.4G MIMO  | Bottom Face | 1.021      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|        | n41_HPUE_Ant 2 | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 204.7            | 2.21              | 0.02          | Not required     |
|        | WLAN2.4G MIMO  | Bottom Face | 1.021      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
| Case 3 | FR1 n30_Ant 3  | Bottom Face | 1.181      | 0        | 89                     | -63    | -177   | 132.3            | 1.18              | 0.01          | Not required     |
|        | NFC            | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|        | NFC            | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 81.2             | 1.02              | 0.01          | Not required     |
|        | WLAN2.4G MIMO  | Bottom Face | 1.021      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|        | FR1 n30_Ant 3  | Bottom Face | 1.181      | 0        | 89                     | -63    | -177   | 144.2            | 2.20              | 0.02          | Not required     |
|        | WLAN2.4G MIMO  | Bottom Face | 1.021      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
| Case 4 | FR1 n66_Ant 4  | Bottom Face | 1.157      | 0        | 92.5                   | -93.1  | -177   | 159.7            | 1.16              | 0.01          | Not required     |
|        | NFC            | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|        | NFC            | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 81.2             | 1.02              | 0.01          | Not required     |
|        | WLAN2.4G MIMO  | Bottom Face | 1.021      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|        | FR1 n66_Ant 4  | Bottom Face | 1.157      | 0        | 92.5                   | -93.1  | -177   | 174.4            | 2.18              | 0.02          | Not required     |
|        | WLAN2.4G MIMO  | Bottom Face | 1.021      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
| Case 5 | FR1 n77_Ant 5  | Bottom Face | 1.175      | 0        | -65                    | -118   | -177   | 182.0            | 1.18              | 0.01          | Not required     |
|        | NFC            | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|        | NFC            | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 81.2             | 1.02              | 0.01          | Not required     |
|        | WLAN2.4G MIMO  | Bottom Face | 1.021      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|        | FR1 n77_Ant 5  | Bottom Face | 1.175      | 0        | -65                    | -118   | -177   | 250.7            | 2.20              | 0.01          | Not required     |
|        | WLAN2.4G MIMO  | Bottom Face | 1.021      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
| Case 6 | FR1 n13_Ant 1  | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   | 161.0            | 1.19              | 0.01          | Not required     |

| Case             | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|------------------|------------------|-------------|------------|----------|------------------------|--------|--------|------------------|-------------------|---------------|------------------|
|                  |                  |             |            |          | X                      | Y      | Z      |                  |                   |               |                  |
| Case 6           | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.23              | 0.01          | Not required     |
|                  | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                  | WLAN5/6G MIMO+BT | Bottom Face | 1.225      | 0        | -70                    | 118    | -180.1 | 250.6            | 2.41              | 0.01          | Not required     |
|                  | FR1 n13_Ant 1    | Bottom Face | 1.186      | 0        | 23                     | -114.7 | -177   |                  |                   |               |                  |
|                  | WLAN5/6G MIMO+BT | Bottom Face | 1.225      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 7           | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  | X                | Y           | Z          |          |                        |        |        |                  |                   |               |                  |
|                  | n41_HPUE_Ant 2   | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 166.1            | 1.19              | 0.01          | Not required     |
|                  | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                  | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.23              | 0.01          | Not required     |
|                  | WLAN5/6G MIMO+BT | Bottom Face | 1.225      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|                  | n41_HPUE_Ant 2   | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 |                  |                   |               |                  |
| WLAN5/6G MIMO+BT | Bottom Face      | 1.225       | 0          | -70      | 118                    | -180.1 | 260.4  | 2.41             | 0.01              | Not required  |                  |
| Case 8           | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  | X                | Y           | Z          |          |                        |        |        |                  |                   |               |                  |
|                  | FR1 n30_Ant 3    | Bottom Face | 1.181      | 0        | 89                     | -63    | -177   | 132.3            | 1.18              | 0.01          | Not required     |
|                  | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                  | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.23              | 0.01          | Not required     |
|                  | WLAN5/6G MIMO+BT | Bottom Face | 1.225      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| FR1 n30_Ant 3    | Bottom Face      | 1.181       | 0          | 89       | -63                    | -177   |        |                  |                   |               |                  |
| WLAN5/6G MIMO+BT | Bottom Face      | 1.225       | 0          | -70      | 118                    | -180.1 | 240.9  | 2.41             | 0.02              | Not required  |                  |
| Case 9           | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  | X                | Y           | Z          |          |                        |        |        |                  |                   |               |                  |
|                  | FR1 n66_Ant 4    | Bottom Face | 1.157      | 0        | 92.5                   | -93.1  | -177   | 159.7            | 1.16              | 0.01          | Not required     |
|                  | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                  | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.23              | 0.01          | Not required     |
|                  | WLAN5/6G MIMO+BT | Bottom Face | 1.225      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| FR1 n66_Ant 4    | Bottom Face      | 1.157       | 0          | 92.5     | -93.1                  | -177   |        |                  |                   |               |                  |
| WLAN5/6G MIMO+BT | Bottom Face      | 1.225       | 0          | -70      | 118                    | -180.1 | 266.4  | 2.38             | 0.01              | Not required  |                  |
| Case 10          | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  | X                | Y           | Z          |          |                        |        |        |                  |                   |               |                  |
|                  | FR1 n77_Ant 5    | Bottom Face | 1.175      | 0        | -65                    | -118   | -177   | 182.0            | 1.18              | 0.01          | Not required     |
|                  | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                  | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.23              | 0.01          | Not required     |
|                  | WLAN5/6G MIMO+BT | Bottom Face | 1.225      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| FR1 n77_Ant 5    | Bottom Face      | 1.175       | 0          | -65      | -118                   | -177   |        |                  |                   |               |                  |
| WLAN5/6G MIMO+BT | Bottom Face      | 1.225       | 0          | -70      | 118                    | -180.1 | 236.1  | 2.40             | 0.02              | Not required  |                  |
| Case 11          | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  | X                | Y           | Z          |          |                        |        |        |                  |                   |               |                  |
|                  | FR1 n13_Ant 1    | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   | 161.0            | 1.19              | 0.01          | Not required     |
|                  | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                  | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.9            | 0.56              | 0.00          | Not required     |
|                  | WLAN2.4G_Ant 8   | Bottom Face | 0.553      | 0        | -71                    | 117.2  | -178.5 |                  |                   |               |                  |
|                  | Bluetooth_Ant 7  | Bottom Face | 0.069      | 0        | 87.2                   | 79.2   | -177.7 |                  |                   |               |                  |
|                  | WLAN2.4G_Ant 8   | Bottom Face | 0.553      | 0        | -71                    | 117.2  | -178.5 | 162.7            | 0.62              | 0.00          | Not required     |
|                  | FR1 n13_Ant 1    | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   |                  |                   |               |                  |
|                  | WLAN2.4G_Ant 8   | Bottom Face | 0.553      | 0        | -71                    | 117.2  | -178.5 | 250.2            | 1.74              | 0.01          | Not required     |
|                  | FR1 n13_Ant 1    | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   |                  |                   |               |                  |
| Bluetooth_Ant 7  | Bottom Face      | 0.069       | 0          | 87.2     | 79.2                   | -177.7 |        |                  |                   |               |                  |
| NFC              | Bottom Face      | 0.003       | 0          | 14.01    | 46                     | -178.9 | 80.4   | 0.07             | 0.00              | Not required  |                  |
| Bluetooth_Ant 7  | Bottom Face      | 0.069       | 0          | 87.2     | 79.2                   | -177.7 |        |                  |                   |               |                  |
| Case 12          | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                  | X                | Y           | Z          |          |                        |        |        |                  |                   |               |                  |
|                  | n41_HPUE_Ant 2   | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 166.1            | 1.19              | 0.01          | Not required     |
| NFC              | Bottom Face      | 0.003       | 0          | 14.01    | 46                     | -178.9 |        |                  |                   |               |                  |
| NFC              | Bottom Face      | 0.003       | 0          | 14.01    | 46                     | -178.9 | 110.9  | 0.56             | 0.00              | Not required  |                  |



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|         |                 |                 |                   |                 |                               |          |          |                         |                          |                      |                         |
|---------|-----------------|-----------------|-------------------|-----------------|-------------------------------|----------|----------|-------------------------|--------------------------|----------------------|-------------------------|
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   |                         |                          |                      |                         |
|         | Bluetooth_Ant 7 | Bottom Face     | 0.069             | 0               | 87.2                          | 79.2     | -177.7   | 162.7                   | 0.62                     | 0.00                 | Not required            |
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   | 260.1                   | 1.74                     | 0.01                 | Not required            |
|         | n41_HPUE_Ant 2  | Bottom Face     | 1.184             | 0               | 40                            | -118     | -177.1   | 202.8                   | 1.25                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   | 80.4                    | 0.07                     | 0.00                 | Not required            |
|         | n41_HPUE_Ant 2  | Bottom Face     | 1.184             | 0               | 40                            | -118     | -177.1   |                         |                          |                      |                         |
|         | Bluetooth_Ant 7 | Bottom Face     | 0.069             | 0               | 87.2                          | 79.2     | -177.7   |                         |                          |                      |                         |
|         | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   |                         |                          |                      |                         |
|         | Bluetooth_Ant 7 | Bottom Face     | 0.069             | 0               | 87.2                          | 79.2     | -177.7   |                         |                          |                      |                         |
| Case 13 | <b>Band</b>     | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         |                 |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|         | FR1 n30_Ant 3   | Bottom Face     | 1.181             | 0               | 89                            | -63      | -177     | 132.3                   | 1.18                     | 0.01                 | Not required            |
|         | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 110.9                   | 0.56                     | 0.00                 | Not required            |
|         | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 162.7                   | 0.62                     | 0.00                 | Not required            |
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   | 241.0                   | 1.73                     | 0.01                 | Not required            |
|         | Bluetooth_Ant 7 | Bottom Face     | 0.069             | 0               | 87.2                          | 79.2     | -177.7   | 142.2                   | 1.25                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   | 80.4                    | 0.07                     | 0.00                 | Not required            |
|         | FR1 n30_Ant 3   | Bottom Face     | 1.181             | 0               | 89                            | -63      | -177     |                         |                          |                      |                         |
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   |                         |                          |                      |                         |
|         | FR1 n30_Ant 3   | Bottom Face     | 1.181             | 0               | 89                            | -63      | -177     |                         |                          |                      |                         |
|         | Bluetooth_Ant 7 | Bottom Face     | 0.069             | 0               | 87.2                          | 79.2     | -177.7   |                         |                          |                      |                         |
| Case 14 | <b>Band</b>     | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         |                 |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|         | FR1 n66_Ant 4   | Bottom Face     | 1.157             | 0               | 92.5                          | -93.1    | -177     | 159.7                   | 1.16                     | 0.01                 | Not required            |
|         | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 110.9                   | 0.56                     | 0.00                 | Not required            |
|         | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 162.7                   | 0.62                     | 0.00                 | Not required            |
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   | 266.4                   | 1.71                     | 0.01                 | Not required            |
|         | Bluetooth_Ant 7 | Bottom Face     | 0.069             | 0               | 87.2                          | 79.2     | -177.7   | 172.4                   | 1.23                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   | 80.4                    | 0.07                     | 0.00                 | Not required            |
|         | FR1 n66_Ant 4   | Bottom Face     | 1.157             | 0               | 92.5                          | -93.1    | -177     |                         |                          |                      |                         |
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   |                         |                          |                      |                         |
|         | FR1 n66_Ant 4   | Bottom Face     | 1.157             | 0               | 92.5                          | -93.1    | -177     |                         |                          |                      |                         |
|         | Bluetooth_Ant 7 | Bottom Face     | 0.069             | 0               | 87.2                          | 79.2     | -177.7   |                         |                          |                      |                         |
| Case 15 | <b>Band</b>     | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         |                 |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|         | FR1 n77_Ant 5   | Bottom Face     | 1.175             | 0               | -65                           | -118     | -177     | 182.0                   | 1.18                     | 0.01                 | Not required            |
|         | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 110.9                   | 0.56                     | 0.00                 | Not required            |
|         | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 162.7                   | 0.62                     | 0.00                 | Not required            |
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   | 235.3                   | 1.73                     | 0.01                 | Not required            |
|         | Bluetooth_Ant 7 | Bottom Face     | 0.069             | 0               | 87.2                          | 79.2     | -177.7   | 249.1                   | 1.24                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   | 80.4                    | 0.07                     | 0.00                 | Not required            |
|         | FR1 n77_Ant 5   | Bottom Face     | 1.175             | 0               | -65                           | -118     | -177     |                         |                          |                      |                         |
|         | WLAN2.4G_Ant 8  | Bottom Face     | 0.553             | 0               | -71                           | 117.2    | -178.5   |                         |                          |                      |                         |
|         | FR1 n77_Ant 5   | Bottom Face     | 1.175             | 0               | -65                           | -118     | -177     |                         |                          |                      |                         |
|         | Bluetooth_Ant 7 | Bottom Face     | 0.069             | 0               | 87.2                          | 79.2     | -177.7   |                         |                          |                      |                         |
| Case 16 | <b>Band</b>     | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         |                 |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|         | FR1 n13_Ant 1   | Bottom Face     | 1.187             | 0               | 23                            | -114.7   | -177     | 161.0                   | 1.19                     | 0.01                 | Not required            |
|         | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 110.6                   | 1.23                     | 0.01                 | Not required            |
|         | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   |                         |                          |                      |                         |



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| Case            | Band             | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|-----------------|------------------|-------------|------------|----------|------------------------|--------|--------|------------------|-------------------|---------------|------------------|
|                 |                  |             |            |          | X                      | Y      | Z      |                  |                   |               |                  |
| Case 16         | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 | 250.6            | 2.41              | 0.01          | Not required     |
|                 | FR1 n13_Ant 1    | Bottom Face | 1.186      | 0        | 23                     | -114.7 | -177   |                  |                   |               |                  |
|                 | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 17         | n41_HPUE_Ant 2   | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 166.1            | 1.19              | 0.01          | Not required     |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.23              | 0.01          | Not required     |
|                 | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|                 | n41_HPUE_Ant 2   | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 260.4            | 2.41              | 0.01          | Not required     |
|                 | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|                 | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 18         | FR1 n30_Ant 3    | Bottom Face | 1.181      | 0        | 89                     | -63    | -177   | 132.3            | 1.18              | 0.01          | Not required     |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.23              | 0.01          | Not required     |
|                 | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|                 | FR1 n30_Ant 3    | Bottom Face | 1.181      | 0        | 89                     | -63    | -177   | 240.9            | 2.41              | 0.02          | Not required     |
|                 | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|                 | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 19         | FR1 n66_Ant 4    | Bottom Face | 1.157      | 0        | 92.5                   | -93.1  | -177   | 159.7            | 1.16              | 0.01          | Not required     |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.23              | 0.01          | Not required     |
|                 | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|                 | FR1 n66_Ant 4    | Bottom Face | 1.157      | 0        | 92.5                   | -93.1  | -177   | 266.4            | 2.38              | 0.01          | Not required     |
|                 | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 20         | FR1 n77_Ant 5    | Bottom Face | 1.175      | 0        | -65                    | -118   | -177   | 182.0            | 1.18              | 0.01          | Not required     |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.23              | 0.01          | Not required     |
|                 | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|                 | FR1 n77_Ant 5    | Bottom Face | 1.175      | 0        | -65                    | -118   | -177   | 236.1            | 2.40              | 0.02          | Not required     |
|                 | WLAN5/6G MIMO+BT | Bottom Face | 1.224      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 21         | FR1 n13_Ant 1    | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   | 161.0            | 1.19              | 0.01          | Not required     |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                 | WLAN2.4G_Ant 7   | Bottom Face | 1.013      | 0        | 88.5                   | 76.5   | -179.4 | 80.5             | 1.02              | 0.01          | Not required     |
|                 | Bluetooth_Ant 8  | Bottom Face | 0.065      | 0        | -71.2                  | 115.8  | -178.3 |                  |                   |               |                  |
|                 | WLAN2.4G_Ant 7   | Bottom Face | 1.013      | 0        | 88.5                   | 76.5   | -179.4 | 164.5            | 1.08              | 0.01          | Not required     |
|                 | FR1 n13_Ant 1    | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   |                  |                   |               |                  |
|                 | WLAN2.4G_Ant 7   | Bottom Face | 1.013      | 0        | 88.5                   | 76.5   | -179.4 | 202.1            | 2.20              | 0.02          | Not required     |
|                 | FR1 n13_Ant 1    | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   |                  |                   |               |                  |
|                 | Bluetooth_Ant 8  | Bottom Face | 0.065      | 0        | -71.2                  | 115.8  | -178.3 | 249.0            | 1.25              | 0.01          | Not required     |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
| Bluetooth_Ant 8 | Bottom Face      | 0.065       | 0          | -71.2    | 115.8                  | -178.3 | 110.2  | 0.07             | 0.00              | Not required  |                  |
| NFC             | Bottom Face      | 0.003       | 0          | 14.01    | 46                     | -178.9 |        |                  |                   |               |                  |
| Case 22         | n41_HPUE_Ant 2   | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 166.1            | 1.19              | 0.01          | Not required     |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|                 | NFC              | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 80.5             | 1.02              | 0.01          | Not required     |
|                 | WLAN2.4G_Ant 7   | Bottom Face | 1.013      | 0        | 88.5                   | 76.5   | -179.4 |                  |                   |               |                  |
|                 | Bluetooth_Ant 8  | Bottom Face | 0.065      | 0        | -71.2                  | 115.8  | -178.3 | 164.5            | 1.08              | 0.01          | Not required     |
| Bluetooth_Ant 8 | Bottom Face      | 0.065       | 0          | -71.2    | 115.8                  | -178.3 |        |                  |                   |               |                  |

|                 |                 |                 |                   |                 |                               |          |          |                         |                          |                      |                         |
|-----------------|-----------------|-----------------|-------------------|-----------------|-------------------------------|----------|----------|-------------------------|--------------------------|----------------------|-------------------------|
|                 | WLAN2.4G_Ant 7  | Bottom Face     | 1.013             | 0               | 88.5                          | 76.5     | -179.4   |                         |                          |                      |                         |
|                 | n41_HPUE_Ant 2  | Bottom Face     | 1.184             | 0               | 40                            | -118     | -177.1   | 200.5                   | 2.20                     | 0.02                 | Not required            |
|                 | WLAN2.4G_Ant 7  | Bottom Face     | 1.013             | 0               | 88.5                          | 76.5     | -179.4   |                         |                          |                      |                         |
|                 | n41_HPUE_Ant 2  | Bottom Face     | 1.184             | 0               | 40                            | -118     | -177.1   | 258.9                   | 1.25                     | 0.01                 | Not required            |
|                 | Bluetooth_Ant 8 | Bottom Face     | 0.065             | 0               | -71.2                         | 115.8    | -178.3   |                         |                          |                      |                         |
|                 | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 110.2                   | 0.07                     | 0.00                 | Not required            |
|                 | Bluetooth_Ant 8 | Bottom Face     | 0.065             | 0               | -71.2                         | 115.8    | -178.3   |                         |                          |                      |                         |
| Case 23         | <b>Band</b>     | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|                 |                 |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|                 | FR1 n30_Ant 3   | Bottom Face     | 1.181             | 0               | 89                            | -63      | -177     | 132.3                   | 1.18                     | 0.01                 | Not required            |
|                 | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   |                         |                          |                      |                         |
|                 | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 80.5                    | 1.02                     | 0.01                 | Not required            |
|                 | WLAN2.4G_Ant 7  | Bottom Face     | 1.013             | 0               | 88.5                          | 76.5     | -179.4   |                         |                          |                      |                         |
|                 | Bluetooth_Ant 8 | Bottom Face     | 0.065             | 0               | -71.2                         | 115.8    | -178.3   | 164.5                   | 1.08                     | 0.01                 | Not required            |
|                 | WLAN2.4G_Ant 7  | Bottom Face     | 1.013             | 0               | 88.5                          | 76.5     | -179.4   |                         |                          |                      |                         |
|                 | FR1 n30_Ant 3   | Bottom Face     | 1.181             | 0               | 89                            | -63      | -177     | 139.5                   | 2.19                     | 0.02                 | Not required            |
|                 | WLAN2.4G_Ant 7  | Bottom Face     | 1.013             | 0               | 88.5                          | 76.5     | -179.4   |                         |                          |                      |                         |
|                 | FR1 n30_Ant 3   | Bottom Face     | 1.181             | 0               | 89                            | -63      | -177     | 240.1                   | 1.25                     | 0.01                 | Not required            |
|                 | Bluetooth_Ant 8 | Bottom Face     | 0.065             | 0               | -71.2                         | 115.8    | -178.3   |                         |                          |                      |                         |
|                 | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 110.2                   | 0.07                     | 0.00                 | Not required            |
| Bluetooth_Ant 8 | Bottom Face     | 0.065           | 0                 | -71.2           | 115.8                         | -178.3   |          |                         |                          |                      |                         |
| Case 24         | <b>Band</b>     | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|                 |                 |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|                 | FR1 n66_Ant 4   | Bottom Face     | 1.157             | 0               | 92.5                          | -93.1    | -177     | 159.7                   | 1.16                     | 0.01                 | Not required            |
|                 | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   |                         |                          |                      |                         |
|                 | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 80.5                    | 1.02                     | 0.01                 | Not required            |
|                 | WLAN2.4G_Ant 7  | Bottom Face     | 1.013             | 0               | 88.5                          | 76.5     | -179.4   |                         |                          |                      |                         |
|                 | Bluetooth_Ant 8 | Bottom Face     | 0.065             | 0               | -71.2                         | 115.8    | -178.3   | 164.5                   | 1.08                     | 0.01                 | Not required            |
|                 | WLAN2.4G_Ant 7  | Bottom Face     | 1.013             | 0               | 88.5                          | 76.5     | -179.4   |                         |                          |                      |                         |
|                 | FR1 n66_Ant 4   | Bottom Face     | 1.157             | 0               | 92.5                          | -93.1    | -177     | 169.7                   | 2.17                     | 0.02                 | Not required            |
|                 | WLAN2.4G_Ant 7  | Bottom Face     | 1.013             | 0               | 88.5                          | 76.5     | -179.4   |                         |                          |                      |                         |
|                 | FR1 n66_Ant 4   | Bottom Face     | 1.157             | 0               | 92.5                          | -93.1    | -177     | 265.4                   | 1.22                     | 0.01                 | Not required            |
|                 | Bluetooth_Ant 8 | Bottom Face     | 0.065             | 0               | -71.2                         | 115.8    | -178.3   |                         |                          |                      |                         |
|                 | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 110.2                   | 0.07                     | 0.00                 | Not required            |
| Bluetooth_Ant 8 | Bottom Face     | 0.065           | 0                 | -71.2           | 115.8                         | -178.3   |          |                         |                          |                      |                         |
| Case 25         | <b>Band</b>     | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |          |          | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|                 |                 |                 |                   |                 | <b>X</b>                      | <b>Y</b> | <b>Z</b> |                         |                          |                      |                         |
|                 | FR1 n77_Ant 5   | Bottom Face     | 1.175             | 0               | -65                           | -118     | -177     | 182.0                   | 1.18                     | 0.01                 | Not required            |
|                 | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   |                         |                          |                      |                         |
|                 | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 80.5                    | 1.02                     | 0.01                 | Not required            |
|                 | WLAN2.4G_Ant 7  | Bottom Face     | 1.013             | 0               | 88.5                          | 76.5     | -179.4   |                         |                          |                      |                         |
|                 | Bluetooth_Ant 8 | Bottom Face     | 0.065             | 0               | -71.2                         | 115.8    | -178.3   | 164.5                   | 1.08                     | 0.01                 | Not required            |
|                 | WLAN2.4G_Ant 7  | Bottom Face     | 1.013             | 0               | 88.5                          | 76.5     | -179.4   |                         |                          |                      |                         |
|                 | FR1 n77_Ant 5   | Bottom Face     | 1.175             | 0               | -65                           | -118     | -177     | 247.8                   | 2.19                     | 0.01                 | Not required            |
|                 | WLAN2.4G_Ant 7  | Bottom Face     | 1.013             | 0               | 88.5                          | 76.5     | -179.4   |                         |                          |                      |                         |
|                 | FR1 n77_Ant 5   | Bottom Face     | 1.175             | 0               | -65                           | -118     | -177     | 233.9                   | 1.24                     | 0.01                 | Not required            |
|                 | Bluetooth_Ant 8 | Bottom Face     | 0.065             | 0               | -71.2                         | 115.8    | -178.3   |                         |                          |                      |                         |
|                 | NFC             | Bottom Face     | 0.003             | 0               | 14.01                         | 46       | -178.9   | 110.2                   | 0.07                     | 0.00                 | Not required            |
| Bluetooth_Ant 8 | Bottom Face     | 0.065           | 0                 | -71.2           | 115.8                         | -178.3   |          |                         |                          |                      |                         |

**DBS**

| Case          | Band                                      | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------------|---|-------------|------------|----------|------------------------|--------|--------|------------------|-------------------|---------------|------------------|
|               |   |             |            |          | X                      | Y      | Z      |                  |                   |               |                  |
|               |   |             |            |          | (mm)                   | (mm)   | (mm)   |                  |                   |               |                  |
| Case 26       | FR1 n13_Ant 1                             | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   | 161.0            | 1.19              | 0.01          | Not required     |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.01              | 0.01          | Not required     |
|               | WLAN2.4G_DBS Ant 8+ 5G DBS MIMO +BT Ant 7 | Bottom Face | 1.008      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|               | FR1 n13_Ant 1                             | Bottom Face | 0.069      | 0        | 87.2                   | 79.2   | -177.7 | 161.9            | 1.08              | 0.01          | Not required     |
|               | WLAN2.4G_DBS Ant 8+ 5G DBS MIMO +BT Ant 7 | Bottom Face | 1.008      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 27       | n41_HPUE_Ant 2                            | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 166.1            | 1.19              | 0.01          | Not required     |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.01              | 0.01          | Not required     |
|               | WLAN2.4G_DBS Ant 8+ 5G DBS MIMO +BT Ant 7 | Bottom Face | 1.008      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|               | n41_HPUE_Ant 2                            | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 260.4            | 2.19              | 0.01          | Not required     |
|               | WLAN2.4G_DBS Ant 8+ 5G DBS MIMO +BT Ant 7 | Bottom Face | 1.008      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 28       | FR1 n30_Ant 3                             | Bottom Face | 1.181      | 0        | 89                     | -63    | -177   | 132.3            | 1.18              | 0.01          | Not required     |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.01              | 0.01          | Not required     |
|               | WLAN2.4G_DBS Ant 8+ 5G DBS MIMO +BT Ant 7 | Bottom Face | 1.008      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|               | FR1 n30_Ant 3                             | Bottom Face | 1.181      | 0        | 89                     | -63    | -177   | 240.9            | 2.19              | 0.01          | Not required     |
|               | WLAN2.4G_DBS Ant 8+ 5G DBS MIMO +BT Ant 7 | Bottom Face | 1.008      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 29       | FR1 n66_Ant 4                             | Bottom Face | 1.157      | 0        | 92.5                   | -93.1  | -177   | 159.7            | 1.16              | 0.01          | Not required     |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.01              | 0.01          | Not required     |
|               | WLAN2.4G_DBS Ant 8+ 5G DBS MIMO +BT Ant 7 | Bottom Face | 1.008      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|               | FR1 n66_Ant 4                             | Bottom Face | 1.157      | 0        | 92.5                   | -93.1  | -177   | 266.4            | 2.17              | 0.01          | Not required     |
|               | WLAN2.4G_DBS Ant 8+ 5G DBS MIMO +BT Ant 7 | Bottom Face | 1.008      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 30       | FR1 n77_Ant 5                             | Bottom Face | 1.175      | 0        | -65                    | -118   | -177   | 182.0            | 1.18              | 0.01          | Not required     |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.01              | 0.01          | Not required     |
|               | WLAN2.4G_DBS Ant 8+ 5G DBS MIMO +BT Ant 7 | Bottom Face | 1.008      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|               | FR1 n77_Ant 5                             | Bottom Face | 1.175      | 0        | -65                    | -118   | -177   | 236.1            | 2.18              | 0.01          | Not required     |
|               | WLAN2.4G_DBS Ant 8+ 5G DBS MIMO +BT Ant 7 | Bottom Face | 1.008      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 31       | FR1 n13_Ant 1                             | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   | 161.0            | 1.19              | 0.01          | Not required     |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|               | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 81.2             | 0.54              | 0.00          | Not required     |
|               | WLAN2.4G_DBS MIMO                         | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|               | WLAN5/6G MIMO_DBS                         | Bottom Face | 0.648      | 0        | -70                    | 118    | -180.1 | 161.5            | 1.19              | 0.01          | Not required     |
|               | WLAN2.4G_DBS MIMO                         | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|               | FR1 n13_Ant 1                             | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   | 206.2            | 1.73              | 0.01          | Not required     |
|               | WLAN2.4G_DBS MIMO                         | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
| FR1 n13_Ant 1 | Bottom Face                               | 1.187       | 0          | 23       | -114.7                 | -177   | 250.6  | 1.84             | 0.01              | Not required  |                  |



| Case                                      | WLAN5/6G MIMO_DBS | Bottom Face | 0.648      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|---|-------------------|-------------|------------|----------|------------------------|--------|--------|------------------|-------------------|---------------|------------------|
|   | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|   |                   |             |            |          | X                      | Y      | Z      |                  |                   |               |                  |
| Case 32                                   | n41_HPUE_Ant 2    | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 166.1            | 1.19              | 0.01          | Not required     |
|   | NFC               | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|   | NFC               | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 81.2             | 0.54              | 0.00          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|   | WLAN5/6G MIMO_DBS | Bottom Face | 0.648      | 0        | -70                    | 118    | -180.1 | 161.5            | 1.19              | 0.01          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|   | n41_HPUE_Ant 2    | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 204.7            | 1.73              | 0.01          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|   | n41_HPUE_Ant 2    | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 260.4            | 1.83              | 0.01          | Not required     |
|   | WLAN5/6G MIMO_DBS | Bottom Face | 0.648      | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 33                                   | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|   |                   |             |            |          | X                      | Y      | Z      |                  |                   |               |                  |
|   | FR1 n30_Ant 3     | Bottom Face | 1.181      | 0        | 89                     | -63    | -177   | 132.3            | 1.18              | 0.01          | Not required     |
|   | NFC               | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|   | NFC               | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 81.2             | 0.54              | 0.00          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|   | WLAN5/6G MIMO_DBS | Bottom Face | 0.648      | 0        | -70                    | 118    | -180.1 | 161.5            | 1.19              | 0.01          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|   | FR1 n30_Ant 3     | Bottom Face | 1.181      | 0        | 89                     | -63    | -177   | 144.2            | 1.72              | 0.02          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
| FR1 n30_Ant 3                             | Bottom Face       | 1.181       | 0          | 89       | -63                    | -177   | 240.9  | 1.83             | 0.01              | Not required  |                  |
| WLAN5/6G MIMO_DBS                         | Bottom Face       | 0.648       | 0          | -70      | 118                    | -180.1 |        |                  |                   |               |                  |
| Case 34                                   | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|   |                   |             |            |          | X                      | Y      | Z      |                  |                   |               |                  |
|   | FR1 n66_Ant 4     | Bottom Face | 1.157      |          | 92.5                   | -93.1  | -177   | 159.7            | 1.16              | 0.01          | Not required     |
|   | NFC               | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|   | NFC               | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 81.2             | 0.54              | 0.00          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|   | WLAN5/6G MIMO_DBS | Bottom Face | 0.648      | 0        | -70                    | 118    | -180.1 | 161.5            | 1.19              | 0.01          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|   | FR1 n66_Ant 4     | Bottom Face | 1.157      |          | 92.5                   | -93.1  | -177   | 174.4            | 1.70              | 0.01          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
| FR1 n66_Ant 4                             | Bottom Face       | 1.157       |            | 92.5     | -93.1                  | -177   | 266.4  | 1.81             | 0.01              | Not required  |                  |
| WLAN5/6G MIMO_DBS                         | Bottom Face       | 0.648       | 0          | -70      | 118                    | -180.1 |        |                  |                   |               |                  |
| Case 35                                   | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|   |                   |             |            |          | X                      | Y      | Z      |                  |                   |               |                  |
|   | FR1 n77_Ant 5     | Bottom Face | 1.175      | 0        | -65                    | -118   | -177   | 182.0            | 1.18              | 0.01          | Not required     |
|   | NFC               | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|   | NFC               | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 81.2             | 0.54              | 0.00          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|   | WLAN5/6G MIMO_DBS | Bottom Face | 0.648      | 0        | -70                    | 118    | -180.1 | 161.5            | 1.19              | 0.01          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
|   | FR1 n77_Ant 5     | Bottom Face | 1.175      | 0        | -65                    | -118   | -177   | 250.7            | 1.72              | 0.01          | Not required     |
|   | WLAN2.4G_DBS MIMO | Bottom Face | 0.541      | 0        | 87.2                   | 81.2   | -179.4 |                  |                   |               |                  |
| FR1 n77_Ant 5                             | Bottom Face       | 1.175       | 0          | -65      | -118                   | -177   | 236.1  | 1.82             | 0.01              | Not required  |                  |
| WLAN5/6G MIMO_DBS                         | Bottom Face       | 0.648       | 0          | -70      | 118                    | -180.1 |        |                  |                   |               |                  |
| Case 36                                   | Band              | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|   |                   |             |            |          | X                      | Y      | Z      |                  |                   |               |                  |
|   | FR1 n13_Ant 1     | Bottom Face | 1.187      | 0        | 23                     | -114.7 | -177   | 161.0            | 1.19              | 0.01          | Not required     |
|   | NFC               | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|   | NFC               | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.28              | 0.01          | Not required     |
| WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8 | Bottom Face       | 1.28        | 0          | -70      | 118                    | -180.1 |        |                  |                   |               |                  |
| FR1 n13_Ant 1                             | Bottom Face       | 0.069       | 0          | 87.2     | 79.2                   | -177.7 | 161.9  | 1.35             | 0.01              | Not required  |                  |

| Case                                      | Band                                      | Position    | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |        | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---|---|-------------|------------|----------|------------------------|--------|--------|------------------|-------------------|---------------|------------------|
|   |   |             |            |          | X                      | Y      | Z      |                  |                   |               |                  |
|   |   |             |            |          |                        |        |        |                  |                   |               |                  |
| Case 37                                   | WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8 | Bottom Face | 1.28       | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|   | n41_HPUE_Ant 2                            | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 166.1            | 1.19              | 0.01          | Not required     |
|   | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|   | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.28              | 0.01          | Not required     |
|   | WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8 | Bottom Face | 1.28       | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|   | n41_HPUE_Ant 2                            | Bottom Face | 1.184      | 0        | 40                     | -118   | -177.1 | 260.4            | 2.46              | 0.01          | Not required     |
| WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8 | Bottom Face                               | 1.28        | 0          | -70      | 118                    | -180.1 |        |                  |                   |               |                  |
| Case 38                                   | FR1 n30_Ant 3                             | Bottom Face | 1.181      | 0        | 89                     | -63    | -177   | 132.3            | 1.18              | 0.01          | Not required     |
|   | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|   | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.28              | 0.01          | Not required     |
|   | WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8 | Bottom Face | 1.28       | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|   | FR1 n30_Ant 3                             | Bottom Face | 1.181      | 0        | 89                     | -63    | -177   | 240.9            | 2.46              | 0.02          | Not required     |
|   | WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8 | Bottom Face | 1.28       | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 39                                   | FR1 n66_Ant 4                             | Bottom Face | 1.157      | 0        | 92.5                   | -93.1  | -177   | 159.7            | 1.16              | 0.01          | Not required     |
|   | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|   | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.28              | 0.01          | Not required     |
|   | WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8 | Bottom Face | 1.28       | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|   | FR1 n66_Ant 4                             | Bottom Face | 1.157      | 0        | 92.5                   | -93.1  | -177   | 266.4            | 2.44              | 0.01          | Not required     |
|   | WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8 | Bottom Face | 1.28       | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
| Case 40                                   | FR1 n77_Ant 5                             | Bottom Face | 1.175      | 0        | -65                    | -118   | -177   | 182.0            | 1.18              | 0.01          | Not required     |
|   | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 |                  |                   |               |                  |
|   | NFC                                       | Bottom Face | 0.003      | 0        | 14.01                  | 46     | -178.9 | 110.6            | 1.28              | 0.01          | Not required     |
|   | WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8 | Bottom Face | 1.28       | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |
|   | FR1 n77_Ant 5                             | Bottom Face | 1.175      | 0        | -65                    | -118   | -177   | 236.1            | 2.46              | 0.02          | Not required     |
|   | WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8 | Bottom Face | 1.28       | 0        | -70                    | 118    | -180.1 |                  |                   |               |                  |

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## **19. Uncertainty Assessment**

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture’s specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

| <b>Uncertainty Distributions</b>   | <b>Normal</b>      | <b>Rectangular</b> | <b>Triangular</b> | <b>U-Shape</b> |
|------------------------------------|--------------------|--------------------|-------------------|----------------|
| Multi-plying Factor <sup>(a)</sup> | 1/k <sup>(b)</sup> | 1/√3               | 1/√6              | 1/√2           |

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b)  $\kappa$  is the coverage factor

### **Standard Uncertainty for Assumed Distribution**

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual “root-sum-squares” (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.



**Applicable for SAR Measurements:**

| Uncertainty Budget<br>(4 MHz - 10 GHz range) |                        |             |         |         |          |                                |                                 |
|--|------------------------|-------------|---------|---------|----------|--------------------------------|---------------------------------|
| Error Description                            | Uncertainty Value (±%) | Probability | Divisor | (C1) 1g | (C1) 10g | Standard Uncertainty (1g) (±%) | Standard Uncertainty (10g) (±%) |
| <b>Measurement System</b>                    |                        |             |         |         |          |                                |                                 |
| Probe Calibration                            | 18.60                  | N           | 2       | 1       | 1        | 9.3                            | 9.3                             |
| Axial Isotropy                               | 4.70                   | R           | 1.732   | 0.7     | 0.7      | 1.9                            | 1.9                             |
| Hemispherical Isotropy                       | 9.60                   | R           | 1.732   | 0.7     | 0.7      | 3.9                            | 3.9                             |
| Linearity                                    | 4.70                   | R           | 1.732   | 1       | 1        | 2.7                            | 2.7                             |
| Modulation Response                          | 4.68                   | R           | 1.732   | 1       | 1        | 2.7                            | 2.7                             |
| System Detection Limits                      | 1.00                   | R           | 1.732   | 1       | 1        | 0.6                            | 0.6                             |
| Boundary Effects                             | 2.00                   | R           | 1.732   | 1       | 1        | 1.2                            | 1.2                             |
| Readout Electronics                          | 0.30                   | N           | 1       | 1       | 1        | 0.3                            | 0.3                             |
| Response Time                                | 0.00                   | R           | 1.732   | 1       | 1        | 0.0                            | 0.0                             |
| Integration Time                             | 2.60                   | R           | 1.732   | 1       | 1        | 1.5                            | 1.5                             |
| RF Ambient Noise                             | 3.00                   | R           | 1.732   | 1       | 1        | 1.7                            | 1.7                             |
| RF Ambient Reflections                       | 3.00                   | R           | 1.732   | 1       | 1        | 1.7                            | 1.7                             |
| Probe Positioner                             | 0.40                   | R           | 1.732   | 1       | 1        | 0.2                            | 0.2                             |
| Probe Positioning                            | 6.70                   | R           | 1.732   | 1       | 1        | 3.9                            | 3.9                             |
| Post-processing                              | 4.00                   | R           | 1.732   | 1       | 1        | 2.3                            | 2.3                             |
| <b>Test Sample Related</b>                   |                        |             |         |         |          |                                |                                 |
| Device Holder                                | 3.60                   | N           | 1       | 1       | 1        | 3.6                            | 3.6                             |
| Test sample Positioning                      | 3.03                   | N           | 1       | 1       | 1        | 3.0                            | 3.0                             |
| Power Scaling                                | 0.00                   | R           | 1.732   | 1       | 1        | 0.0                            | 0.0                             |
| Power Drift                                  | 5.00                   | R           | 1.732   | 1       | 1        | 2.9                            | 2.9                             |
| <b>Phantom and Setup</b>                     |                        |             |         |         |          |                                |                                 |
| Phantom Uncertainty                          | 7.60                   | R           | 1.732   | 1       | 1        | 4.4                            | 4.4                             |
| SAR correction                               | 0.00                   | R           | 1.732   | 1       | 0.84     | 0.0                            | 0.0                             |
| Liquid Conductivity Repeatability            | 0.03                   | N           | 1       | 0.78    | 0.77     | 0.0                            | 0.0                             |
| Liquid Conductivity (target)                 | 5.00                   | R           | 1.732   | 0.78    | 0.77     | 2.3                            | 2.2                             |
| Liquid Conductivity (mea.)                   | 2.50                   | R           | 1.732   | 0.78    | 0.77     | 1.1                            | 1.1                             |
| Temp. unc. - Conductivity                    | 3.68                   | R           | 1.732   | 0.78    | 0.77     | 1.7                            | 1.6                             |
| Liquid Permittivity Repeatability            | 0.02                   | N           | 1       | 0.23    | 0.26     | 0.0                            | 0.0                             |
| Liquid Permittivity (target)                 | 5.00                   | R           | 1.732   | 0.23    | 0.26     | 0.7                            | 0.8                             |
| Liquid Permittivity (mea.)                   | 2.50                   | R           | 1.732   | 0.23    | 0.26     | 0.3                            | 0.4                             |
| Temp. unc. - Permittivity                    | 0.84                   | R           | 1.732   | 0.23    | 0.26     | 0.1                            | 0.1                             |
| <b>Combined Std. Uncertainty</b>             |                        |             |         |         |          | 14.5%                          | 14.2%                           |
| <b>Coverage Factor for 95 %</b>              |                        |             |         |         |          | K=2                            | K=2                             |
| <b>Expanded STD Uncertainty</b>              |                        |             |         |         |          | 29.0%                          | 28.4%                           |

**Applicable for Power Density Measurements:**

| Error Description   | Uncertainty Value (±dB) | Probability | Divisor | (Ci) | Standard Uncertainty (±dB) |
|---|-------------------------|-------------|---------|------|----------------------------|
| Probe Calibration   | 0.49                    | N           | 1       | 1    | 0.49                       |
| Probe correction  | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Frequency response (BW ≤ 1 GHz)   | 0.20                    | R           | 1.732   | 1    | 0.12                       |
| Sensor cross coupling   | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Isotropy  | 0.50                    | R           | 1.732   | 1    | 0.29                       |
| Linearity   | 0.20                    | R           | 1.732   | 1    | 0.12                       |
| Probe scattering  | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Probe positioning offset  | 0.30                    | R           | 1.732   | 1    | 0.17                       |
| Probe positioning repeatability   | 0.04                    | R           | 1.732   | 1    | 0.02                       |
| Sensor mechanical offset  | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Probe spatial resolution  | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Field impedance dependence  | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Amplitude and phase drift   | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Amplitude and phase noise   | 0.04                    | R           | 1.732   | 1    | 0.02                       |
| Measurement area truncation   | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Data acquisition  | 0.03                    | N           | 1       | 1    | 0.03                       |
| Sampling  | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Field reconstruction  | 2.00                    | R           | 1.732   | 1    | 1.15                       |
| Forward transformation  | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Power density scaling   | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Spatial averaging   | 0.10                    | R           | 1.732   | 1    | 0.06                       |
| System detection limit  | 0.04                    | R           | 1.732   | 1    | 0.02                       |
| <b>Uncertainty terms dependent on the DUT and environmental factors</b> |                         |             |         |      |                            |
| Probe coupling with DUT   | 0.00                    | R           | 1.732   | 1    | 0.0                        |
| Modulation response   | 0.40                    | R           | 1.732   | 1    | 0.2                        |
| Integration time  | 0.00                    | R           | 1.732   | 1    | 0.0                        |
| Response time   | 0.00                    | R           | 1.732   | 1    | 0.0                        |
| Device holder influence   | 0.10                    | R           | 1.732   | 1    | 0.1                        |
| DUT alignment   | 0.00                    | R           | 1.732   | 1    | 0.0                        |
| RF ambient conditions   | 0.04                    | R           | 1.732   | 1    | 0.0                        |
| Ambient reflections   | 0.04                    | R           | 1.732   | 1    | 0.0                        |
| Immunity / secondary reception  | 0.00                    | R           | 1.732   | 1    | 0.0                        |
| Drift of the DUT  |                         | R           | 1.732   | 1    |                            |
| <b>Combined Std. Uncertainty</b>  |                         |             |         |      | <b>1.34</b>                |
| <b>Expanded STD Uncertainty (95%)</b>                                   |                         |             |         |      | <b>2.68</b>                |



## **20. References**

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