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## 1 MAXIMUM OUTPUT POWER

| Antenna gain (dBi)                                  |            | 3.3             |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4                                                 | 18607      | 1850.7          | QPSK       | 1       | 0         | 22.55                   | 25.85              | 33               | -7.15       |
|                                                     |            |                 |            | 1       | 5         | 22.56                   | 25.86              | 33               | -7.14       |
|                                                     |            |                 |            | 3       | 2         | 23.09                   | 26.39              | 33               | -6.61       |
|                                                     |            |                 |            | 6       | 0         | 22.12                   | 25.42              | 33               | -7.58       |
|                                                     | 18900      | 1880            | QPSK       | 1       | 0         | 22.19                   | 25.49              | 33               | -7.51       |
|                                                     |            |                 |            | 1       | 5         | 22.66                   | 25.96              | 33               | -7.04       |
|                                                     |            |                 |            | 3       | 2         | 22.51                   | 25.81              | 33               | -7.19       |
|                                                     |            |                 |            | 6       | 0         | 21.99                   | 25.29              | 33               | -7.71       |
|                                                     | 19193      | 1909.3          | QPSK       | 1       | 0         | 22.45                   | 25.75              | 33               | -7.25       |
|                                                     |            |                 |            | 1       | 5         | 22.73                   | 26.03              | 33               | -6.97       |
|                                                     |            |                 |            | 3       | 2         | 22.73                   | 26.03              | 33               | -6.97       |
|                                                     |            |                 |            | 6       | 0         | 21.27                   | 24.57              | 33               | -8.43       |
| 1.4                                                 | 18607      | 1850.7          | 16QAM      | 1       | 0         | 21.77                   | 25.07              | 33               | -7.93       |
|                                                     |            |                 |            | 1       | 5         | 21.81                   | 25.11              | 33               | -7.89       |
|                                                     |            |                 |            | 3       | 2         | 21.74                   | 25.04              | 33               | -7.96       |
|                                                     |            |                 |            | 6       | 0         | 21.23                   | 24.53              | 33               | -8.47       |
|                                                     | 18900      | 1880            | 16QAM      | 1       | 0         | 22.36                   | 25.66              | 33               | -7.34       |
|                                                     |            |                 |            | 1       | 5         | 22.09                   | 25.39              | 33               | -7.61       |
|                                                     |            |                 |            | 3       | 2         | 22.10                   | 25.40              | 33               | -7.6        |
|                                                     |            |                 |            | 6       | 0         | 21.15                   | 24.45              | 33               | -8.55       |
|                                                     | 19193      | 1909.3          | 16QAM      | 1       | 0         | 21.88                   | 25.18              | 33               | -7.82       |
|                                                     |            |                 |            | 1       | 5         | 21.70                   | 25.00              | 33               | -8          |
|                                                     |            |                 |            | 3       | 2         | 21.86                   | 25.16              | 33               | -7.84       |
|                                                     |            |                 |            | 6       | 0         | 20.83                   | 24.13              | 33               | -8.87       |
| 1.4                                                 | 18607      | 1850.7          | 64QAM      | 1       | 0         | 20.33                   | 23.63              | 33               | -9.37       |
|                                                     |            |                 |            | 1       | 5         | 20.38                   | 23.68              | 33               | -9.32       |
|                                                     |            |                 |            | 3       | 2         | 21.14                   | 24.44              | 33               | -8.56       |
|                                                     |            |                 |            | 6       | 0         | 20.12                   | 23.42              | 33               | -9.58       |
|                                                     | 18900      | 1880            | 64QAM      | 1       | 0         | 20.71                   | 24.01              | 33               | -8.99       |
|                                                     |            |                 |            | 1       | 5         | 20.62                   | 23.92              | 33               | -9.08       |
|                                                     |            |                 |            | 3       | 2         | 21.23                   | 24.53              | 33               | -8.47       |
|                                                     |            |                 |            | 6       | 0         | 20.02                   | 23.32              | 33               | -9.68       |
|                                                     | 19193      | 1909.3          | 64QAM      | 1       | 0         | 20.79                   | 24.09              | 33               | -8.91       |
|                                                     |            |                 |            | 1       | 5         | 20.55                   | 23.85              | 33               | -9.15       |
|                                                     |            |                 |            | 3       | 2         | 21.04                   | 24.34              | 33               | -8.66       |
|                                                     |            |                 |            | 6       | 0         | 19.81                   | 23.11              | 33               | -9.89       |

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| Antenna gain (dBi)                                  |            | 3.3             |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3                                                   | 18615      | 1851.5          | QPSK       | 1       | 0         | 22.57                   | 25.87              | 33               | -7.13       |
|                                                     |            |                 |            | 1       | 14        | 22.84                   | 26.14              | 33               | -6.86       |
|                                                     |            |                 |            | 8       | 4         | 22.24                   | 25.54              | 33               | -7.46       |
|                                                     |            |                 |            | 15      | 0         | 22.17                   | 25.47              | 33               | -7.53       |
|                                                     | 18900      | 1880            | QPSK       | 1       | 0         | 22.96                   | 26.26              | 33               | -6.74       |
|                                                     |            |                 |            | 1       | 14        | 22.95                   | 26.25              | 33               | -6.75       |
|                                                     |            |                 |            | 8       | 4         | 22.10                   | 25.40              | 33               | -7.6        |
|                                                     |            |                 |            | 15      | 0         | 22.10                   | 25.40              | 33               | -7.6        |
|                                                     | 19185      | 1908.5          | QPSK       | 1       | 0         | 22.54                   | 25.84              | 33               | -7.16       |
|                                                     |            |                 |            | 1       | 14        | 22.61                   | 25.91              | 33               | -7.09       |
|                                                     |            |                 |            | 8       | 4         | 21.88                   | 25.18              | 33               | -7.82       |
|                                                     |            |                 |            | 15      | 0         | 21.83                   | 25.13              | 33               | -7.87       |
| 3                                                   | 18615      | 1851.5          | 16QAM      | 1       | 0         | 22.44                   | 25.74              | 33               | -7.26       |
|                                                     |            |                 |            | 1       | 14        | 22.45                   | 25.75              | 33               | -7.25       |
|                                                     |            |                 |            | 8       | 4         | 21.32                   | 24.62              | 33               | -8.38       |
|                                                     |            |                 |            | 15      | 0         | 21.18                   | 24.48              | 33               | -8.52       |
|                                                     | 18900      | 1880            | 16QAM      | 1       | 0         | 22.18                   | 25.48              | 33               | -7.52       |
|                                                     |            |                 |            | 1       | 14        | 21.91                   | 25.21              | 33               | -7.79       |
|                                                     |            |                 |            | 8       | 4         | 21.16                   | 24.46              | 33               | -8.54       |
|                                                     |            |                 |            | 15      | 0         | 21.15                   | 24.45              | 33               | -8.55       |
|                                                     | 19185      | 1908.5          | 16QAM      | 1       | 0         | 21.68                   | 24.98              | 33               | -8.02       |
|                                                     |            |                 |            | 1       | 14        | 22.14                   | 25.44              | 33               | -7.56       |
|                                                     |            |                 |            | 8       | 4         | 21.01                   | 24.31              | 33               | -8.69       |
|                                                     |            |                 |            | 15      | 0         | 20.89                   | 24.19              | 33               | -8.81       |
| 3                                                   | 18615      | 1851.5          | 64QAM      | 1       | 0         | 21.41                   | 24.71              | 33               | -8.29       |
|                                                     |            |                 |            | 1       | 14        | 21.44                   | 24.74              | 33               | -8.26       |
|                                                     |            |                 |            | 8       | 4         | 20.34                   | 23.64              | 33               | -9.36       |
|                                                     |            |                 |            | 15      | 0         | 20.27                   | 23.57              | 33               | -9.43       |
|                                                     | 18900      | 1880            | 64QAM      | 1       | 0         | 21.15                   | 24.45              | 33               | -8.55       |
|                                                     |            |                 |            | 1       | 14        | 21.07                   | 24.37              | 33               | -8.63       |
|                                                     |            |                 |            | 8       | 4         | 20.23                   | 23.53              | 33               | -9.47       |
|                                                     |            |                 |            | 15      | 0         | 20.08                   | 23.38              | 33               | -9.62       |
|                                                     | 19185      | 1908.5          | 64QAM      | 1       | 0         | 20.82                   | 24.12              | 33               | -8.88       |
|                                                     |            |                 |            | 1       | 14        | 21.14                   | 24.44              | 33               | -8.56       |
|                                                     |            |                 |            | 8       | 4         | 19.94                   | 23.24              | 33               | -9.76       |
|                                                     |            |                 |            | 15      | 0         | 19.89                   | 23.19              | 33               | -9.81       |

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| Antenna gain (dBi)                                  |            | 3.3             |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5                                                   | 18625      | 1852.5          | QPSK       | 1       | 0         | 23.06                   | 26.36              | 33               | -6.64       |
|                                                     |            |                 |            | 1       | 24        | 22.90                   | 26.20              | 33               | -6.8        |
|                                                     |            |                 |            | 12      | 6         | 22.21                   | 25.51              | 33               | -7.49       |
|                                                     |            |                 |            | 25      | 0         | 22.17                   | 25.47              | 33               | -7.53       |
|                                                     | 18900      | 1880            | QPSK       | 1       | 0         | 22.76                   | 26.06              | 33               | -6.94       |
|                                                     |            |                 |            | 1       | 24        | 22.79                   | 26.09              | 33               | -6.91       |
|                                                     |            |                 |            | 12      | 6         | 22.13                   | 25.43              | 33               | -7.57       |
|                                                     |            |                 |            | 25      | 0         | 22.06                   | 25.36              | 33               | -7.64       |
|                                                     | 19175      | 1907.5          | QPSK       | 1       | 0         | 22.51                   | 25.81              | 33               | -7.19       |
|                                                     |            |                 |            | 1       | 24        | 22.90                   | 26.20              | 33               | -6.8        |
|                                                     |            |                 |            | 12      | 6         | 21.90                   | 25.20              | 33               | -7.8        |
|                                                     |            |                 |            | 25      | 0         | 21.64                   | 24.94              | 33               | -8.06       |
| 5                                                   | 18625      | 1852.5          | 16QAM      | 1       | 0         | 22.36                   | 25.66              | 33               | -7.34       |
|                                                     |            |                 |            | 1       | 24        | 22.70                   | 26.00              | 33               | -7          |
|                                                     |            |                 |            | 12      | 6         | 21.26                   | 24.56              | 33               | -8.44       |
|                                                     |            |                 |            | 25      | 0         | 21.24                   | 24.54              | 33               | -8.46       |
|                                                     | 18900      | 1880            | 16QAM      | 1       | 0         | 22.23                   | 25.53              | 33               | -7.47       |
|                                                     |            |                 |            | 1       | 24        | 22.34                   | 25.64              | 33               | -7.36       |
|                                                     |            |                 |            | 12      | 6         | 21.18                   | 24.48              | 33               | -8.52       |
|                                                     |            |                 |            | 25      | 0         | 21.12                   | 24.42              | 33               | -8.58       |
|                                                     | 19175      | 1907.5          | 16QAM      | 1       | 0         | 22.04                   | 25.34              | 33               | -7.66       |
|                                                     |            |                 |            | 1       | 24        | 21.62                   | 24.92              | 33               | -8.08       |
|                                                     |            |                 |            | 12      | 6         | 20.42                   | 23.72              | 33               | -9.28       |
|                                                     |            |                 |            | 25      | 0         | 20.83                   | 24.13              | 33               | -8.87       |
| 5                                                   | 18625      | 1852.5          | 64QAM      | 1       | 0         | 20.33                   | 23.63              | 33               | -9.37       |
|                                                     |            |                 |            | 1       | 24        | 20.58                   | 23.88              | 33               | -9.12       |
|                                                     |            |                 |            | 12      | 6         | 20.28                   | 23.58              | 33               | -9.42       |
|                                                     |            |                 |            | 25      | 0         | 20.27                   | 23.57              | 33               | -9.43       |
|                                                     | 18900      | 1880            | 64QAM      | 1       | 0         | 20.81                   | 24.11              | 33               | -8.89       |
|                                                     |            |                 |            | 1       | 24        | 20.78                   | 24.08              | 33               | -8.92       |
|                                                     |            |                 |            | 12      | 6         | 20.15                   | 23.45              | 33               | -9.55       |
|                                                     |            |                 |            | 25      | 0         | 20.11                   | 23.41              | 33               | -9.59       |
|                                                     | 19175      | 1907.5          | 64QAM      | 1       | 0         | 20.99                   | 24.29              | 33               | -8.71       |
|                                                     |            |                 |            | 1       | 24        | 21.17                   | 24.47              | 33               | -8.53       |
|                                                     |            |                 |            | 12      | 6         | 19.94                   | 23.24              | 33               | -9.76       |
|                                                     |            |                 |            | 25      | 0         | 19.85                   | 23.15              | 33               | -9.85       |

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| Antenna gain (dBi)                                  |            | 3.3             |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                  | 18650      | 1855            | QPSK       | 1       | 0         | 22.48                   | 25.78              | 33               | -7.22       |
|                                                     |            |                 |            | 1       | 49        | 22.64                   | 25.94              | 33               | -7.06       |
|                                                     |            |                 |            | 25      | 12        | 22.29                   | 25.59              | 33               | -7.41       |
|                                                     |            |                 |            | 50      | 0         | 22.24                   | 25.54              | 33               | -7.46       |
|                                                     | 18900      | 1880            | QPSK       | 1       | 0         | 23.05                   | 26.35              | 33               | -6.65       |
|                                                     |            |                 |            | 1       | 49        | 22.78                   | 26.08              | 33               | -6.92       |
|                                                     |            |                 |            | 25      | 12        | 21.96                   | 25.26              | 33               | -7.74       |
|                                                     |            |                 |            | 50      | 0         | 21.85                   | 25.15              | 33               | -7.85       |
|                                                     | 19150      | 1905            | QPSK       | 1       | 0         | 22.90                   | 26.20              | 33               | -6.8        |
|                                                     |            |                 |            | 1       | 49        | 22.82                   | 26.12              | 33               | -6.88       |
|                                                     |            |                 |            | 25      | 12        | 21.87                   | 25.17              | 33               | -7.83       |
|                                                     |            |                 |            | 50      | 0         | 21.85                   | 25.15              | 33               | -7.85       |
| 10                                                  | 18650      | 1855            | 16QAM      | 1       | 0         | 21.56                   | 24.86              | 33               | -8.14       |
|                                                     |            |                 |            | 1       | 49        | 21.97                   | 25.27              | 33               | -7.73       |
|                                                     |            |                 |            | 25      | 12        | 21.27                   | 24.57              | 33               | -8.43       |
|                                                     |            |                 |            | 50      | 0         | 21.24                   | 24.54              | 33               | -8.46       |
|                                                     | 18900      | 1880            | 16QAM      | 1       | 0         | 21.95                   | 25.25              | 33               | -7.75       |
|                                                     |            |                 |            | 1       | 49        | 21.51                   | 24.81              | 33               | -8.19       |
|                                                     |            |                 |            | 25      | 12        | 21.10                   | 24.40              | 33               | -8.6        |
|                                                     |            |                 |            | 50      | 0         | 21.12                   | 24.42              | 33               | -8.58       |
|                                                     | 19150      | 1905            | 16QAM      | 1       | 0         | 21.93                   | 25.23              | 33               | -7.77       |
|                                                     |            |                 |            | 1       | 49        | 21.41                   | 24.71              | 33               | -8.29       |
|                                                     |            |                 |            | 25      | 12        | 20.87                   | 24.17              | 33               | -8.83       |
|                                                     |            |                 |            | 50      | 0         | 20.83                   | 24.13              | 33               | -8.87       |
| 10                                                  | 18650      | 1855            | 64QAM      | 1       | 0         | 20.47                   | 23.77              | 33               | -9.23       |
|                                                     |            |                 |            | 1       | 49        | 20.78                   | 24.08              | 33               | -8.92       |
|                                                     |            |                 |            | 25      | 12        | 20.20                   | 23.50              | 33               | -9.5        |
|                                                     |            |                 |            | 50      | 0         | 20.29                   | 23.59              | 33               | -9.41       |
|                                                     | 18900      | 1880            | 64QAM      | 1       | 0         | 20.46                   | 23.76              | 33               | -9.24       |
|                                                     |            |                 |            | 1       | 49        | 20.83                   | 24.13              | 33               | -8.87       |
|                                                     |            |                 |            | 25      | 12        | 20.17                   | 23.47              | 33               | -9.53       |
|                                                     |            |                 |            | 50      | 0         | 20.15                   | 23.45              | 33               | -9.55       |
|                                                     | 19150      | 1905            | 64QAM      | 1       | 0         | 20.37                   | 23.67              | 33               | -9.33       |
|                                                     |            |                 |            | 1       | 49        | 19.62                   | 22.92              | 33               | -10.08      |
|                                                     |            |                 |            | 25      | 12        | 19.92                   | 23.22              | 33               | -9.78       |
|                                                     |            |                 |            | 50      | 0         | 19.91                   | 23.21              | 33               | -9.79       |

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| Antenna gain (dBi)                                  |            | 3.3             |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                  | 18675      | 1857.5          | QPSK       | 1       | 0         | 23.03                   | 26.33              | 33               | -6.67       |
|                                                     |            |                 |            | 1       | 74        | 22.99                   | 26.29              | 33               | -6.71       |
|                                                     |            |                 |            | 36      | 18        | 22.20                   | 25.50              | 33               | -7.5        |
|                                                     |            |                 |            | 75      | 0         | 22.24                   | 25.54              | 33               | -7.46       |
|                                                     | 18900      | 1880            | QPSK       | 1       | 0         | 23.00                   | 26.30              | 33               | -6.7        |
|                                                     |            |                 |            | 1       | 74        | 22.13                   | 25.43              | 33               | -7.57       |
|                                                     |            |                 |            | 36      | 18        | 22.17                   | 25.47              | 33               | -7.53       |
|                                                     |            |                 |            | 75      | 0         | 22.12                   | 25.42              | 33               | -7.58       |
|                                                     | 19125      | 1902.5          | QPSK       | 1       | 0         | 22.56                   | 25.86              | 33               | -7.14       |
|                                                     |            |                 |            | 1       | 74        | 22.58                   | 25.88              | 33               | -7.12       |
|                                                     |            |                 |            | 36      | 18        | 21.86                   | 25.16              | 33               | -7.84       |
|                                                     |            |                 |            | 75      | 0         | 21.85                   | 25.15              | 33               | -7.85       |
| 15                                                  | 18675      | 1857.5          | 16QAM      | 1       | 0         | 22.13                   | 25.43              | 33               | -7.57       |
|                                                     |            |                 |            | 1       | 74        | 22.10                   | 25.40              | 33               | -7.6        |
|                                                     |            |                 |            | 36      | 18        | 21.25                   | 24.55              | 33               | -8.45       |
|                                                     |            |                 |            | 75      | 0         | 21.22                   | 24.52              | 33               | -8.48       |
|                                                     | 18900      | 1880            | 16QAM      | 1       | 0         | 21.97                   | 25.27              | 33               | -7.73       |
|                                                     |            |                 |            | 1       | 74        | 21.95                   | 25.25              | 33               | -7.75       |
|                                                     |            |                 |            | 36      | 18        | 21.15                   | 24.45              | 33               | -8.55       |
|                                                     |            |                 |            | 75      | 0         | 21.12                   | 24.42              | 33               | -8.58       |
|                                                     | 19125      | 1902.5          | 16QAM      | 1       | 0         | 21.56                   | 24.86              | 33               | -8.14       |
|                                                     |            |                 |            | 1       | 74        | 21.51                   | 24.81              | 33               | -8.19       |
|                                                     |            |                 |            | 36      | 18        | 20.91                   | 24.21              | 33               | -8.79       |
|                                                     |            |                 |            | 75      | 0         | 20.90                   | 24.20              | 33               | -8.8        |
| 15                                                  | 18675      | 1857.5          | 64QAM      | 1       | 0         | 21.40                   | 24.70              | 33               | -8.3        |
|                                                     |            |                 |            | 1       | 74        | 21.40                   | 24.70              | 33               | -8.3        |
|                                                     |            |                 |            | 36      | 18        | 20.26                   | 23.56              | 33               | -9.44       |
|                                                     |            |                 |            | 75      | 0         | 20.22                   | 23.52              | 33               | -9.48       |
|                                                     | 18900      | 1880            | 64QAM      | 1       | 0         | 21.05                   | 24.35              | 33               | -8.65       |
|                                                     |            |                 |            | 1       | 74        | 21.20                   | 24.50              | 33               | -8.5        |
|                                                     |            |                 |            | 36      | 18        | 20.20                   | 23.50              | 33               | -9.5        |
|                                                     |            |                 |            | 75      | 0         | 20.15                   | 23.45              | 33               | -9.55       |
|                                                     | 19125      | 1902.5          | 64QAM      | 1       | 0         | 20.55                   | 23.85              | 33               | -9.15       |
|                                                     |            |                 |            | 1       | 74        | 20.25                   | 23.55              | 33               | -9.45       |
|                                                     |            |                 |            | 36      | 18        | 19.88                   | 23.18              | 33               | -9.82       |
|                                                     |            |                 |            | 75      | 0         | 19.92                   | 23.22              | 33               | -9.78       |

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| Antenna gain (dBi)                                  |            | 3.3             |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                  | 18700      | 1860            | QPSK       | 1       | 0         | 23.16                   | 26.46              | 33               | -6.54       |
|                                                     |            |                 |            | 1       | 99        | 22.97                   | 26.27              | 33               | -6.73       |
|                                                     |            |                 |            | 50      | 25        | 22.24                   | 25.54              | 33               | -7.46       |
|                                                     |            |                 |            | 100     | 0         | 22.18                   | 25.48              | 33               | -7.52       |
|                                                     | 18900      | 1880            | QPSK       | 1       | 0         | 23.03                   | 26.33              | 33               | -6.67       |
|                                                     |            |                 |            | 1       | 99        | 22.73                   | 26.03              | 33               | -6.97       |
|                                                     |            |                 |            | 50      | 25        | 22.15                   | 25.45              | 33               | -7.55       |
|                                                     |            |                 |            | 100     | 0         | 22.09                   | 25.39              | 33               | -7.61       |
|                                                     | 19100      | 1900            | QPSK       | 1       | 0         | 22.82                   | 26.12              | 33               | -6.88       |
|                                                     |            |                 |            | 1       | 99        | 22.66                   | 25.96              | 33               | -7.04       |
|                                                     |            |                 |            | 50      | 25        | 21.99                   | 25.29              | 33               | -7.71       |
|                                                     |            |                 |            | 100     | 0         | 21.99                   | 25.29              | 33               | -7.71       |
| 20                                                  | 18700      | 1860            | 16QAM      | 1       | 0         | 22.41                   | 25.71              | 33               | -7.29       |
|                                                     |            |                 |            | 1       | 99        | 22.22                   | 25.52              | 33               | -7.48       |
|                                                     |            |                 |            | 50      | 25        | 21.28                   | 24.58              | 33               | -8.42       |
|                                                     |            |                 |            | 100     | 0         | 21.20                   | 24.50              | 33               | -8.5        |
|                                                     | 18900      | 1880            | 16QAM      | 1       | 0         | 21.57                   | 24.87              | 33               | -8.13       |
|                                                     |            |                 |            | 1       | 99        | 22.00                   | 25.30              | 33               | -7.7        |
|                                                     |            |                 |            | 50      | 25        | 21.14                   | 24.44              | 33               | -8.56       |
|                                                     |            |                 |            | 100     | 0         | 21.12                   | 24.42              | 33               | -8.58       |
|                                                     | 19100      | 1900            | 16QAM      | 1       | 0         | 21.75                   | 25.05              | 33               | -7.95       |
|                                                     |            |                 |            | 1       | 99        | 22.16                   | 25.46              | 33               | -7.54       |
|                                                     |            |                 |            | 50      | 25        | 20.98                   | 24.28              | 33               | -8.72       |
|                                                     |            |                 |            | 100     | 0         | 21.00                   | 24.30              | 33               | -8.7        |
| 20                                                  | 18700      | 1860            | 64QAM      | 1       | 0         | 20.91                   | 24.21              | 33               | -8.79       |
|                                                     |            |                 |            | 1       | 99        | 20.22                   | 23.52              | 33               | -9.48       |
|                                                     |            |                 |            | 50      | 25        | 20.31                   | 23.61              | 33               | -9.39       |
|                                                     |            |                 |            | 100     | 0         | 20.22                   | 23.52              | 33               | -9.48       |
|                                                     | 18900      | 1880            | 64QAM      | 1       | 0         | 21.07                   | 24.37              | 33               | -8.63       |
|                                                     |            |                 |            | 1       | 99        | 20.33                   | 23.63              | 33               | -9.37       |
|                                                     |            |                 |            | 50      | 25        | 20.16                   | 23.46              | 33               | -9.54       |
|                                                     |            |                 |            | 100     | 0         | 20.14                   | 23.44              | 33               | -9.56       |
|                                                     | 19100      | 1900            | 64QAM      | 1       | 0         | 20.53                   | 23.83              | 33               | -9.17       |
|                                                     |            |                 |            | 1       | 99        | 21.19                   | 24.49              | 33               | -8.51       |
|                                                     |            |                 |            | 50      | 25        | 20.00                   | 23.30              | 33               | -9.7        |
|                                                     |            |                 |            | 100     | 0         | 20.01                   | 23.31              | 33               | -9.69       |

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| Antenna gain (dBi)                                  |            | 3.32            |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4                                                 | 19957      | 1710.7          | QPSK       | 1       | 0         | 22.11                   | 25.43              | 30               | -4.57       |
|                                                     |            |                 |            | 1       | 5         | 22.31                   | 25.63              | 30               | -4.37       |
|                                                     |            |                 |            | 3       | 2         | 22.86                   | 26.18              | 30               | -3.82       |
|                                                     |            |                 |            | 6       | 0         | 21.70                   | 25.02              | 30               | -4.98       |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 22.89                   | 26.21              | 30               | -3.79       |
|                                                     |            |                 |            | 1       | 5         | 22.71                   | 26.03              | 30               | -3.97       |
|                                                     |            |                 |            | 3       | 2         | 22.97                   | 26.29              | 30               | -3.71       |
|                                                     |            |                 |            | 6       | 0         | 21.96                   | 25.28              | 30               | -4.72       |
|                                                     | 20393      | 1754.3          | QPSK       | 1       | 0         | 22.33                   | 25.65              | 30               | -4.35       |
|                                                     |            |                 |            | 1       | 5         | 22.63                   | 25.95              | 30               | -4.05       |
|                                                     |            |                 |            | 3       | 2         | 23.14                   | 26.46              | 30               | -3.54       |
|                                                     |            |                 |            | 6       | 0         | 22.21                   | 25.53              | 30               | -4.47       |
| 1.4                                                 | 19957      | 1710.7          | 16QAM      | 1       | 0         | 22.11                   | 25.43              | 30               | -4.57       |
|                                                     |            |                 |            | 1       | 5         | 22.00                   | 25.32              | 30               | -4.68       |
|                                                     |            |                 |            | 3       | 2         | 22.07                   | 25.39              | 30               | -4.61       |
|                                                     |            |                 |            | 6       | 0         | 20.99                   | 24.31              | 30               | -5.69       |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 22.12                   | 25.44              | 30               | -4.56       |
|                                                     |            |                 |            | 1       | 5         | 21.93                   | 25.25              | 30               | -4.75       |
|                                                     |            |                 |            | 3       | 2         | 21.65                   | 24.97              | 30               | -5.03       |
|                                                     |            |                 |            | 6       | 0         | 21.08                   | 24.40              | 30               | -5.6        |
|                                                     | 20393      | 1754.3          | 16QAM      | 1       | 0         | 22.15                   | 25.47              | 30               | -4.53       |
|                                                     |            |                 |            | 1       | 5         | 22.54                   | 25.86              | 30               | -4.14       |
|                                                     |            |                 |            | 3       | 2         | 22.27                   | 25.59              | 30               | -4.41       |
|                                                     |            |                 |            | 6       | 0         | 21.27                   | 24.59              | 30               | -5.41       |
| 1.4                                                 | 19957      | 1710.7          | 64QAM      | 1       | 0         | 21.13                   | 24.45              | 30               | -5.55       |
|                                                     |            |                 |            | 1       | 5         | 20.39                   | 23.71              | 30               | -6.29       |
|                                                     |            |                 |            | 3       | 2         | 21.25                   | 24.57              | 30               | -5.43       |
|                                                     |            |                 |            | 6       | 0         | 20.03                   | 23.35              | 30               | -6.65       |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 21.37                   | 24.69              | 30               | -5.31       |
|                                                     |            |                 |            | 1       | 5         | 21.12                   | 24.44              | 30               | -5.56       |
|                                                     |            |                 |            | 3       | 2         | 20.95                   | 24.27              | 30               | -5.73       |
|                                                     |            |                 |            | 6       | 0         | 20.05                   | 23.37              | 30               | -6.63       |
|                                                     | 20393      | 1754.3          | 64QAM      | 1       | 0         | 21.37                   | 24.69              | 30               | -5.31       |
|                                                     |            |                 |            | 1       | 5         | 21.54                   | 24.86              | 30               | -5.14       |
|                                                     |            |                 |            | 3       | 2         | 21.52                   | 24.84              | 30               | -5.16       |
|                                                     |            |                 |            | 6       | 0         | 20.10                   | 23.42              | 30               | -6.58       |

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| Antenna gain (dBi)                                  |            | 3.32            |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3                                                   | 19965      | 1711.5          | QPSK       | 1       | 0         | 22.69                   | 26.01              | 30               | -3.99       |
|                                                     |            |                 |            | 1       | 14        | 22.47                   | 25.79              | 30               | -4.21       |
|                                                     |            |                 |            | 8       | 4         | 21.99                   | 25.31              | 30               | -4.69       |
|                                                     |            |                 |            | 15      | 0         | 21.97                   | 25.29              | 30               | -4.71       |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 22.96                   | 26.28              | 30               | -3.72       |
|                                                     |            |                 |            | 1       | 14        | 22.73                   | 26.05              | 30               | -3.95       |
|                                                     |            |                 |            | 8       | 4         | 22.10                   | 25.42              | 30               | -4.58       |
|                                                     |            |                 |            | 15      | 0         | 22.07                   | 25.39              | 30               | -4.61       |
|                                                     | 20385      | 1753.5          | QPSK       | 1       | 0         | 22.61                   | 25.93              | 30               | -4.07       |
|                                                     |            |                 |            | 1       | 14        | 23.23                   | 26.55              | 30               | -3.45       |
|                                                     |            |                 |            | 8       | 4         | 22.29                   | 25.61              | 30               | -4.39       |
|                                                     |            |                 |            | 15      | 0         | 22.28                   | 25.60              | 30               | -4.4        |
| 3                                                   | 19965      | 1711.5          | 16QAM      | 1       | 0         | 22.07                   | 25.39              | 30               | -4.61       |
|                                                     |            |                 |            | 1       | 14        | 21.82                   | 25.14              | 30               | -4.86       |
|                                                     |            |                 |            | 8       | 4         | 21.10                   | 24.42              | 30               | -5.58       |
|                                                     |            |                 |            | 15      | 0         | 21.04                   | 24.36              | 30               | -5.64       |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 21.58                   | 24.90              | 30               | -5.1        |
|                                                     |            |                 |            | 1       | 14        | 21.99                   | 25.31              | 30               | -4.69       |
|                                                     |            |                 |            | 8       | 4         | 21.20                   | 24.52              | 30               | -5.48       |
|                                                     |            |                 |            | 15      | 0         | 21.11                   | 24.43              | 30               | -5.57       |
|                                                     | 20385      | 1753.5          | 16QAM      | 1       | 0         | 22.44                   | 25.76              | 30               | -4.24       |
|                                                     |            |                 |            | 1       | 14        | 22.48                   | 25.80              | 30               | -4.2        |
|                                                     |            |                 |            | 8       | 4         | 21.12                   | 24.44              | 30               | -5.56       |
|                                                     |            |                 |            | 15      | 0         | 21.29                   | 24.61              | 30               | -5.39       |
| 3                                                   | 19965      | 1711.5          | 64QAM      | 1       | 0         | 21.06                   | 24.38              | 30               | -5.62       |
|                                                     |            |                 |            | 1       | 14        | 21.03                   | 24.35              | 30               | -5.65       |
|                                                     |            |                 |            | 8       | 4         | 20.06                   | 23.38              | 30               | -6.62       |
|                                                     |            |                 |            | 15      | 0         | 20.01                   | 23.33              | 30               | -6.67       |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 21.19                   | 24.51              | 30               | -5.49       |
|                                                     |            |                 |            | 1       | 14        | 21.15                   | 24.47              | 30               | -5.53       |
|                                                     |            |                 |            | 8       | 4         | 20.12                   | 23.44              | 30               | -6.56       |
|                                                     |            |                 |            | 15      | 0         | 20.20                   | 23.52              | 30               | -6.48       |
|                                                     | 20385      | 1753.5          | 64QAM      | 1       | 0         | 21.18                   | 24.50              | 30               | -5.5        |
|                                                     |            |                 |            | 1       | 14        | 21.07                   | 24.39              | 30               | -5.61       |
|                                                     |            |                 |            | 8       | 4         | 20.36                   | 23.68              | 30               | -6.32       |
|                                                     |            |                 |            | 15      | 0         | 20.36                   | 23.68              | 30               | -6.32       |

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| Antenna gain (dBi)                                  |            | 3.32            |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5                                                   | 19975      | 1712.5          | QPSK       | 1       | 0         | 22.58                   | 25.90              | 30               | -4.1        |
|                                                     |            |                 |            | 1       | 24        | 22.03                   | 25.35              | 30               | -4.65       |
|                                                     |            |                 |            | 12      | 6         | 22.02                   | 25.34              | 30               | -4.66       |
|                                                     |            |                 |            | 25      | 0         | 22.04                   | 25.36              | 30               | -4.64       |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 22.19                   | 25.51              | 30               | -4.49       |
|                                                     |            |                 |            | 1       | 24        | 22.59                   | 25.91              | 30               | -4.09       |
|                                                     |            |                 |            | 12      | 6         | 22.09                   | 25.41              | 30               | -4.59       |
|                                                     |            |                 |            | 25      | 0         | 22.10                   | 25.42              | 30               | -4.58       |
|                                                     | 20375      | 1752.5          | QPSK       | 1       | 0         | 22.34                   | 25.66              | 30               | -4.34       |
|                                                     |            |                 |            | 1       | 24        | 23.25                   | 26.57              | 30               | -3.43       |
|                                                     |            |                 |            | 12      | 6         | 22.22                   | 25.54              | 30               | -4.46       |
|                                                     |            |                 |            | 25      | 0         | 22.21                   | 25.53              | 30               | -4.47       |
| 5                                                   | 19975      | 1712.5          | 16QAM      | 1       | 0         | 21.90                   | 25.22              | 30               | -4.78       |
|                                                     |            |                 |            | 1       | 24        | 21.60                   | 24.92              | 30               | -5.08       |
|                                                     |            |                 |            | 12      | 6         | 21.09                   | 24.41              | 30               | -5.59       |
|                                                     |            |                 |            | 25      | 0         | 21.02                   | 24.34              | 30               | -5.66       |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 21.97                   | 25.29              | 30               | -4.71       |
|                                                     |            |                 |            | 1       | 24        | 22.34                   | 25.66              | 30               | -4.34       |
|                                                     |            |                 |            | 12      | 6         | 21.19                   | 24.51              | 30               | -5.49       |
|                                                     |            |                 |            | 25      | 0         | 21.13                   | 24.45              | 30               | -5.55       |
|                                                     | 20375      | 1752.5          | 16QAM      | 1       | 0         | 22.13                   | 25.45              | 30               | -4.55       |
|                                                     |            |                 |            | 1       | 24        | 22.40                   | 25.72              | 30               | -4.28       |
|                                                     |            |                 |            | 12      | 6         | 21.29                   | 24.61              | 30               | -5.39       |
|                                                     |            |                 |            | 25      | 0         | 21.24                   | 24.56              | 30               | -5.44       |
| 5                                                   | 19975      | 1712.5          | 64QAM      | 1       | 0         | 20.68                   | 24.00              | 30               | -6          |
|                                                     |            |                 |            | 1       | 24        | 21.04                   | 24.36              | 30               | -5.64       |
|                                                     |            |                 |            | 12      | 6         | 20.02                   | 23.34              | 30               | -6.66       |
|                                                     |            |                 |            | 25      | 0         | 20.07                   | 23.39              | 30               | -6.61       |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 21.09                   | 24.41              | 30               | -5.59       |
|                                                     |            |                 |            | 1       | 24        | 21.45                   | 24.77              | 30               | -5.23       |
|                                                     |            |                 |            | 12      | 6         | 20.21                   | 23.53              | 30               | -6.47       |
|                                                     |            |                 |            | 25      | 0         | 20.15                   | 23.47              | 30               | -6.53       |
|                                                     | 20375      | 1752.5          | 64QAM      | 1       | 0         | 21.21                   | 24.53              | 30               | -5.47       |
|                                                     |            |                 |            | 1       | 24        | 20.98                   | 24.30              | 30               | -5.7        |
|                                                     |            |                 |            | 12      | 6         | 20.28                   | 23.60              | 30               | -6.4        |
|                                                     |            |                 |            | 25      | 0         | 20.24                   | 23.56              | 30               | -6.44       |

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| Antenna gain (dBi)                                  |            | 3.32            |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                  | 20000      | 1715            | QPSK       | 1       | 0         | 22.28                   | 25.60              | 30               | -4.4        |
|                                                     |            |                 |            | 1       | 49        | 22.89                   | 26.21              | 30               | -3.79       |
|                                                     |            |                 |            | 25      | 12        | 22.04                   | 25.36              | 30               | -4.64       |
|                                                     |            |                 |            | 50      | 0         | 22.04                   | 25.36              | 30               | -4.64       |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 22.75                   | 26.07              | 30               | -3.93       |
|                                                     |            |                 |            | 1       | 49        | 22.74                   | 26.06              | 30               | -3.94       |
|                                                     |            |                 |            | 25      | 12        | 22.14                   | 25.46              | 30               | -4.54       |
|                                                     |            |                 |            | 50      | 0         | 22.10                   | 25.42              | 30               | -4.58       |
|                                                     | 20350      | 1750            | QPSK       | 1       | 0         | 22.69                   | 26.01              | 30               | -3.99       |
|                                                     |            |                 |            | 1       | 49        | 22.34                   | 25.66              | 30               | -4.34       |
|                                                     |            |                 |            | 25      | 12        | 22.18                   | 25.50              | 30               | -4.5        |
|                                                     |            |                 |            | 50      | 0         | 22.20                   | 25.52              | 30               | -4.48       |
| 10                                                  | 20000      | 1715            | 16QAM      | 1       | 0         | 22.07                   | 25.39              | 30               | -4.61       |
|                                                     |            |                 |            | 1       | 49        | 22.38                   | 25.70              | 30               | -4.3        |
|                                                     |            |                 |            | 25      | 12        | 21.11                   | 24.43              | 30               | -5.57       |
|                                                     |            |                 |            | 50      | 0         | 21.12                   | 24.44              | 30               | -5.56       |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 22.35                   | 25.67              | 30               | -4.33       |
|                                                     |            |                 |            | 1       | 49        | 22.06                   | 25.38              | 30               | -4.62       |
|                                                     |            |                 |            | 25      | 12        | 21.18                   | 24.50              | 30               | -5.5        |
|                                                     |            |                 |            | 50      | 0         | 21.16                   | 24.48              | 30               | -5.52       |
|                                                     | 20350      | 1750            | 16QAM      | 1       | 0         | 22.38                   | 25.70              | 30               | -4.3        |
|                                                     |            |                 |            | 1       | 49        | 22.31                   | 25.63              | 30               | -4.37       |
|                                                     |            |                 |            | 25      | 12        | 21.24                   | 24.56              | 30               | -5.44       |
|                                                     |            |                 |            | 50      | 0         | 21.15                   | 24.47              | 30               | -5.53       |
| 10                                                  | 20000      | 1715            | 64QAM      | 1       | 0         | 20.84                   | 24.16              | 30               | -5.84       |
|                                                     |            |                 |            | 1       | 49        | 21.22                   | 24.54              | 30               | -5.46       |
|                                                     |            |                 |            | 25      | 12        | 19.84                   | 23.16              | 30               | -6.84       |
|                                                     |            |                 |            | 50      | 0         | 20.09                   | 23.41              | 30               | -6.59       |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 21.28                   | 24.60              | 30               | -5.4        |
|                                                     |            |                 |            | 1       | 49        | 20.77                   | 24.09              | 30               | -5.91       |
|                                                     |            |                 |            | 25      | 12        | 20.19                   | 23.51              | 30               | -6.49       |
|                                                     |            |                 |            | 50      | 0         | 20.14                   | 23.46              | 30               | -6.54       |
|                                                     | 20350      | 1750            | 64QAM      | 1       | 0         | 21.23                   | 24.55              | 30               | -5.45       |
|                                                     |            |                 |            | 1       | 49        | 21.19                   | 24.51              | 30               | -5.49       |
|                                                     |            |                 |            | 25      | 12        | 20.22                   | 23.54              | 30               | -6.46       |
|                                                     |            |                 |            | 50      | 0         | 20.17                   | 23.49              | 30               | -6.51       |

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| Antenna gain (dBi)                                  |            | 3.32            |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                  | 20025      | 1717.5          | QPSK       | 1       | 0         | 22.93                   | 26.25              | 30               | -3.75       |
|                                                     |            |                 |            | 1       | 74        | 22.60                   | 25.92              | 30               | -4.08       |
|                                                     |            |                 |            | 36      | 18        | 22.05                   | 25.37              | 30               | -4.63       |
|                                                     |            |                 |            | 75      | 0         | 22.09                   | 25.41              | 30               | -4.59       |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 22.85                   | 26.17              | 30               | -3.83       |
|                                                     |            |                 |            | 1       | 74        | 22.87                   | 26.19              | 30               | -3.81       |
|                                                     |            |                 |            | 36      | 18        | 22.11                   | 25.43              | 30               | -4.57       |
|                                                     |            |                 |            | 75      | 0         | 22.11                   | 25.43              | 30               | -4.57       |
|                                                     | 20325      | 1747.5          | QPSK       | 1       | 0         | 22.98                   | 26.30              | 30               | -3.7        |
|                                                     |            |                 |            | 1       | 74        | 23.13                   | 26.45              | 30               | -3.55       |
|                                                     |            |                 |            | 36      | 18        | 22.12                   | 25.44              | 30               | -4.56       |
|                                                     |            |                 |            | 75      | 0         | 22.17                   | 25.49              | 30               | -4.51       |
| 15                                                  | 20025      | 1717.5          | 16QAM      | 1       | 0         | 21.77                   | 25.09              | 30               | -4.91       |
|                                                     |            |                 |            | 1       | 74        | 22.33                   | 25.65              | 30               | -4.35       |
|                                                     |            |                 |            | 36      | 18        | 21.07                   | 24.39              | 30               | -5.61       |
|                                                     |            |                 |            | 75      | 0         | 21.04                   | 24.36              | 30               | -5.64       |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 21.97                   | 25.29              | 30               | -4.71       |
|                                                     |            |                 |            | 1       | 74        | 22.04                   | 25.36              | 30               | -4.64       |
|                                                     |            |                 |            | 36      | 18        | 21.14                   | 24.46              | 30               | -5.54       |
|                                                     |            |                 |            | 75      | 0         | 21.12                   | 24.44              | 30               | -5.56       |
|                                                     | 20325      | 1747.5          | 16QAM      | 1       | 0         | 21.66                   | 24.98              | 30               | -5.02       |
|                                                     |            |                 |            | 1       | 74        | 22.29                   | 25.61              | 30               | -4.39       |
|                                                     |            |                 |            | 36      | 18        | 21.20                   | 24.52              | 30               | -5.48       |
|                                                     |            |                 |            | 75      | 0         | 21.12                   | 24.44              | 30               | -5.56       |
| 15                                                  | 20025      | 1717.5          | 64QAM      | 1       | 0         | 21.29                   | 24.61              | 30               | -5.39       |
|                                                     |            |                 |            | 1       | 74        | 21.18                   | 24.50              | 30               | -5.5        |
|                                                     |            |                 |            | 36      | 18        | 20.14                   | 23.46              | 30               | -6.54       |
|                                                     |            |                 |            | 75      | 0         | 20.07                   | 23.39              | 30               | -6.61       |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 21.19                   | 24.51              | 30               | -5.49       |
|                                                     |            |                 |            | 1       | 74        | 21.24                   | 24.56              | 30               | -5.44       |
|                                                     |            |                 |            | 36      | 18        | 20.17                   | 23.49              | 30               | -6.51       |
|                                                     |            |                 |            | 75      | 0         | 20.15                   | 23.47              | 30               | -6.53       |
|                                                     | 20325      | 1747.5          | 64QAM      | 1       | 0         | 20.94                   | 24.26              | 30               | -5.74       |
|                                                     |            |                 |            | 1       | 74        | 21.24                   | 24.56              | 30               | -5.44       |
|                                                     |            |                 |            | 36      | 18        | 20.15                   | 23.47              | 30               | -6.53       |
|                                                     |            |                 |            | 75      | 0         | 20.19                   | 23.51              | 30               | -6.49       |

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| Antenna gain (dBi)                                  |            | 3.32            |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                  | 20050      | 1720            | QPSK       | 1       | 0         | 22.07                   | 25.39              | 30               | -4.61       |
|                                                     |            |                 |            | 1       | 99        | 21.90                   | 25.22              | 30               | -4.78       |
|                                                     |            |                 |            | 50      | 25        | 22.06                   | 25.38              | 30               | -4.62       |
|                                                     |            |                 |            | 100     | 0         | 22.08                   | 25.40              | 30               | -4.6        |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 22.86                   | 26.18              | 30               | -3.82       |
|                                                     |            |                 |            | 1       | 99        | 23.03                   | 26.35              | 30               | -3.65       |
|                                                     |            |                 |            | 50      | 25        | 22.13                   | 25.45              | 30               | -4.55       |
|                                                     |            |                 |            | 100     | 0         | 22.16                   | 25.48              | 30               | -4.52       |
|                                                     | 20300      | 1745            | QPSK       | 1       | 0         | 22.64                   | 25.96              | 30               | -4.04       |
|                                                     |            |                 |            | 1       | 99        | 23.06                   | 26.38              | 30               | -3.62       |
|                                                     |            |                 |            | 50      | 25        | 22.12                   | 25.44              | 30               | -4.56       |
|                                                     |            |                 |            | 100     | 0         | 22.13                   | 25.45              | 30               | -4.55       |
| 20                                                  | 20050      | 1720            | 16QAM      | 1       | 0         | 22.35                   | 25.67              | 30               | -4.33       |
|                                                     |            |                 |            | 1       | 99        | 21.75                   | 25.07              | 30               | -4.93       |
|                                                     |            |                 |            | 50      | 25        | 21.04                   | 24.36              | 30               | -5.64       |
|                                                     |            |                 |            | 100     | 0         | 21.05                   | 24.37              | 30               | -5.63       |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 22.22                   | 25.54              | 30               | -4.46       |
|                                                     |            |                 |            | 1       | 99        | 21.42                   | 24.74              | 30               | -5.26       |
|                                                     |            |                 |            | 50      | 25        | 21.12                   | 24.44              | 30               | -5.56       |
|                                                     |            |                 |            | 100     | 0         | 21.14                   | 24.46              | 30               | -5.54       |
|                                                     | 20300      | 1745            | 16QAM      | 1       | 0         | 22.76                   | 26.08              | 30               | -3.92       |
|                                                     |            |                 |            | 1       | 99        | 22.24                   | 25.56              | 30               | -4.44       |
|                                                     |            |                 |            | 50      | 25        | 21.14                   | 24.46              | 30               | -5.54       |
|                                                     |            |                 |            | 100     | 0         | 21.19                   | 24.51              | 30               | -5.49       |
| 20                                                  | 20050      | 1720            | 64QAM      | 1       | 0         | 20.74                   | 24.06              | 30               | -5.94       |
|                                                     |            |                 |            | 1       | 99        | 20.63                   | 23.95              | 30               | -6.05       |
|                                                     |            |                 |            | 50      | 25        | 20.17                   | 23.49              | 30               | -6.51       |
|                                                     |            |                 |            | 100     | 0         | 20.14                   | 23.46              | 30               | -6.54       |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 21.09                   | 24.41              | 30               | -5.59       |
|                                                     |            |                 |            | 1       | 99        | 21.52                   | 24.84              | 30               | -5.16       |
|                                                     |            |                 |            | 50      | 25        | 20.13                   | 23.45              | 30               | -6.55       |
|                                                     |            |                 |            | 100     | 0         | 20.20                   | 23.52              | 30               | -6.48       |
|                                                     | 20300      | 1745            | 64QAM      | 1       | 0         | 21.12                   | 24.44              | 30               | -5.56       |
|                                                     |            |                 |            | 1       | 99        | 21.42                   | 24.74              | 30               | -5.26       |
|                                                     |            |                 |            | 50      | 25        | 20.20                   | 23.52              | 30               | -6.48       |
|                                                     |            |                 |            | 100     | 0         | 20.15                   | 23.47              | 30               | -6.53       |

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| Antenna gain (dBi)                                |            | 3.15            |            |         |           |                         |                    |                   |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4                                               | 20407      | 824.7           | QPSK       | 1       | 0         | 22.80                   | 25.95              | 23.80             | 38.45           | -14.65      |
|                                                   |            |                 |            | 1       | 5         | 22.72                   | 25.87              | 23.72             | 38.45           | -14.73      |
|                                                   |            |                 |            | 3       | 2         | 22.85                   | 26.00              | 23.85             | 38.45           | -14.60      |
|                                                   |            |                 |            | 6       | 0         | 21.89                   | 25.04              | 22.89             | 38.45           | -15.56      |
|                                                   | 20525      | 836.5           | QPSK       | 1       | 0         | 22.38                   | 25.53              | 23.38             | 38.45           | -15.07      |
|                                                   |            |                 |            | 1       | 5         | 22.36                   | 25.51              | 23.36             | 38.45           | -15.09      |
|                                                   |            |                 |            | 3       | 2         | 22.47                   | 25.62              | 23.47             | 38.45           | -14.98      |
|                                                   |            |                 |            | 6       | 0         | 21.47                   | 24.62              | 22.47             | 38.45           | -15.98      |
|                                                   | 20643      | 848.3           | QPSK       | 1       | 0         | 22.46                   | 25.61              | 23.46             | 38.45           | -14.99      |
|                                                   |            |                 |            | 1       | 5         | 22.37                   | 25.52              | 23.37             | 38.45           | -15.08      |
|                                                   |            |                 |            | 3       | 2         | 22.50                   | 25.65              | 23.50             | 38.45           | -14.95      |
|                                                   |            |                 |            | 6       | 0         | 21.54                   | 24.69              | 22.54             | 38.45           | -15.91      |
| 1.4                                               | 20407      | 824.7           | 16QAM      | 1       | 0         | 21.91                   | 25.06              | 22.91             | 38.45           | -15.54      |
|                                                   |            |                 |            | 1       | 5         | 22.21                   | 25.36              | 23.21             | 38.45           | -15.24      |
|                                                   |            |                 |            | 3       | 2         | 22.11                   | 25.26              | 23.11             | 38.45           | -15.34      |
|                                                   |            |                 |            | 6       | 0         | 21.03                   | 24.18              | 22.03             | 38.45           | -16.42      |
|                                                   | 20525      | 836.5           | 16QAM      | 1       | 0         | 21.93                   | 25.08              | 22.93             | 38.45           | -15.52      |
|                                                   |            |                 |            | 1       | 5         | 21.43                   | 24.58              | 22.43             | 38.45           | -16.02      |
|                                                   |            |                 |            | 3       | 2         | 21.59                   | 24.74              | 22.59             | 38.45           | -15.86      |
|                                                   |            |                 |            | 6       | 0         | 20.59                   | 23.74              | 21.59             | 38.45           | -16.86      |
|                                                   | 20643      | 848.3           | 16QAM      | 1       | 0         | 21.89                   | 25.04              | 22.89             | 38.45           | -15.56      |
|                                                   |            |                 |            | 1       | 5         | 21.88                   | 25.03              | 22.88             | 38.45           | -15.57      |
|                                                   |            |                 |            | 3       | 2         | 21.32                   | 24.47              | 22.32             | 38.45           | -16.13      |
|                                                   |            |                 |            | 6       | 0         | 20.62                   | 23.77              | 21.62             | 38.45           | -16.83      |
| 1.4                                               | 20407      | 824.7           | 64QAM      | 1       | 0         | 21.04                   | 24.19              | 22.04             | 38.45           | -16.41      |
|                                                   |            |                 |            | 1       | 5         | 20.70                   | 23.85              | 21.70             | 38.45           | -16.75      |
|                                                   |            |                 |            | 3       | 2         | 21.05                   | 24.20              | 22.05             | 38.45           | -16.40      |
|                                                   |            |                 |            | 6       | 0         | 19.73                   | 22.88              | 20.73             | 38.45           | -17.72      |
|                                                   | 20525      | 836.5           | 64QAM      | 1       | 0         | 20.69                   | 23.84              | 21.69             | 38.45           | -16.76      |
|                                                   |            |                 |            | 1       | 5         | 20.45                   | 23.60              | 21.45             | 38.45           | -17.00      |
|                                                   |            |                 |            | 3       | 2         | 20.68                   | 23.83              | 21.68             | 38.45           | -16.77      |
|                                                   |            |                 |            | 6       | 0         | 19.09                   | 22.24              | 20.09             | 38.45           | -18.36      |
|                                                   | 20643      | 848.3           | 64QAM      | 1       | 0         | 20.61                   | 23.76              | 21.61             | 38.45           | -16.84      |
|                                                   |            |                 |            | 1       | 5         | 20.80                   | 23.95              | 21.80             | 38.45           | -16.65      |
|                                                   |            |                 |            | 3       | 2         | 20.23                   | 23.38              | 21.23             | 38.45           | -17.22      |
|                                                   |            |                 |            | 6       | 0         | 19.62                   | 22.77              | 20.62             | 38.45           | -17.83      |

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| Antenna gain (dBi)                                |            | 3.15            |            |         |           |                         |                    |                   |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 3                                                 | 20415      | 825.5           | QPSK       | 1       | 0         | 22.42                   | 25.57              | 23.42             | 38.45           | -15.03      |
|                                                   |            |                 |            | 1       | 14        | 22.73                   | 25.88              | 23.73             | 38.45           | -14.72      |
|                                                   |            |                 |            | 8       | 4         | 21.98                   | 25.13              | 22.98             | 38.45           | -15.47      |
|                                                   |            |                 |            | 15      | 0         | 21.94                   | 25.09              | 22.94             | 38.45           | -15.51      |
|                                                   | 20525      | 836.5           | QPSK       | 1       | 0         | 22.50                   | 25.65              | 23.50             | 38.45           | -14.95      |
|                                                   |            |                 |            | 1       | 14        | 22.39                   | 25.54              | 23.39             | 38.45           | -15.06      |
|                                                   |            |                 |            | 8       | 4         | 21.59                   | 24.74              | 22.59             | 38.45           | -15.86      |
|                                                   |            |                 |            | 15      | 0         | 21.54                   | 24.69              | 22.54             | 38.45           | -15.91      |
|                                                   | 20635      | 847.5           | QPSK       | 1       | 0         | 22.46                   | 25.61              | 23.46             | 38.45           | -14.99      |
|                                                   |            |                 |            | 1       | 14        | 22.44                   | 25.59              | 23.44             | 38.45           | -15.01      |
|                                                   |            |                 |            | 8       | 4         | 21.63                   | 24.78              | 22.63             | 38.45           | -15.82      |
|                                                   |            |                 |            | 15      | 0         | 21.53                   | 24.68              | 22.53             | 38.45           | -15.92      |
| 3                                                 | 20415      | 825.5           | 16QAM      | 1       | 0         | 22.57                   | 25.72              | 23.57             | 38.45           | -14.88      |
|                                                   |            |                 |            | 1       | 14        | 21.68                   | 24.83              | 22.68             | 38.45           | -15.77      |
|                                                   |            |                 |            | 8       | 4         | 21.01                   | 24.16              | 22.01             | 38.45           | -16.44      |
|                                                   |            |                 |            | 15      | 0         | 20.73                   | 23.88              | 21.73             | 38.45           | -16.72      |
|                                                   | 20525      | 836.5           | 16QAM      | 1       | 0         | 21.28                   | 24.43              | 22.28             | 38.45           | -16.17      |
|                                                   |            |                 |            | 1       | 14        | 21.61                   | 24.76              | 22.61             | 38.45           | -15.84      |
|                                                   |            |                 |            | 8       | 4         | 20.65                   | 23.80              | 21.65             | 38.45           | -16.80      |
|                                                   |            |                 |            | 15      | 0         | 20.57                   | 23.72              | 21.57             | 38.45           | -16.88      |
|                                                   | 20635      | 847.5           | 16QAM      | 1       | 0         | 21.08                   | 24.23              | 22.08             | 38.45           | -16.37      |
|                                                   |            |                 |            | 1       | 14        | 21.43                   | 24.58              | 22.43             | 38.45           | -16.02      |
|                                                   |            |                 |            | 8       | 4         | 20.50                   | 23.65              | 21.50             | 38.45           | -16.95      |
|                                                   |            |                 |            | 15      | 0         | 20.16                   | 23.31              | 21.16             | 38.45           | -17.29      |
| 3                                                 | 20415      | 825.5           | 64QAM      | 1       | 0         | 20.92                   | 24.07              | 21.92             | 38.45           | -16.53      |
|                                                   |            |                 |            | 1       | 14        | 20.76                   | 23.91              | 21.76             | 38.45           | -16.69      |
|                                                   |            |                 |            | 8       | 4         | 20.02                   | 23.17              | 21.02             | 38.45           | -17.43      |
|                                                   |            |                 |            | 15      | 0         | 20.01                   | 23.16              | 21.01             | 38.45           | -17.44      |
|                                                   | 20525      | 836.5           | 64QAM      | 1       | 0         | 20.80                   | 23.95              | 21.80             | 38.45           | -16.65      |
|                                                   |            |                 |            | 1       | 14        | 20.20                   | 23.35              | 21.20             | 38.45           | -17.25      |
|                                                   |            |                 |            | 8       | 4         | 19.69                   | 22.84              | 20.69             | 38.45           | -17.76      |
|                                                   |            |                 |            | 15      | 0         | 19.15                   | 22.30              | 20.15             | 38.45           | -18.30      |
|                                                   | 20635      | 847.5           | 64QAM      | 1       | 0         | 20.83                   | 23.98              | 21.83             | 38.45           | -16.62      |
|                                                   |            |                 |            | 1       | 14        | 20.31                   | 23.46              | 21.31             | 38.45           | -17.14      |
|                                                   |            |                 |            | 8       | 4         | 19.68                   | 22.83              | 20.68             | 38.45           | -17.77      |
|                                                   |            |                 |            | 15      | 0         | 19.61                   | 22.76              | 20.61             | 38.45           | -17.84      |

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| Antenna gain (dBi)                                |            | 3.15            |            |         |           |                         |                    |                   |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                 | 20425      | 826.5           | QPSK       | 1       | 0         | 22.28                   | 25.43              | 23.28             | 38.45           | -15.17      |
|                                                   |            |                 |            | 1       | 24        | 22.47                   | 25.62              | 23.47             | 38.45           | -14.98      |
|                                                   |            |                 |            | 12      | 6         | 21.96                   | 25.11              | 22.96             | 38.45           | -15.49      |
|                                                   |            |                 |            | 25      | 0         | 21.90                   | 25.05              | 22.90             | 38.45           | -15.55      |
|                                                   | 20525      | 836.5           | QPSK       | 1       | 0         | 22.63                   | 25.78              | 23.63             | 38.45           | -14.82      |
|                                                   |            |                 |            | 1       | 24        | 22.49                   | 25.64              | 23.49             | 38.45           | -14.96      |
|                                                   |            |                 |            | 12      | 6         | 21.59                   | 24.74              | 22.59             | 38.45           | -15.86      |
|                                                   |            |                 |            | 25      | 0         | 21.57                   | 24.72              | 22.57             | 38.45           | -15.88      |
|                                                   | 20625      | 846.5           | QPSK       | 1       | 0         | 22.58                   | 25.73              | 23.58             | 38.45           | -14.87      |
|                                                   |            |                 |            | 1       | 24        | 22.54                   | 25.69              | 23.54             | 38.45           | -14.91      |
|                                                   |            |                 |            | 12      | 6         | 21.60                   | 24.75              | 22.60             | 38.45           | -15.85      |
|                                                   |            |                 |            | 25      | 0         | 21.59                   | 24.74              | 22.59             | 38.45           | -15.86      |
| 5                                                 | 20425      | 826.5           | 16QAM      | 1       | 0         | 21.92                   | 25.07              | 22.92             | 38.45           | -15.53      |
|                                                   |            |                 |            | 1       | 24        | 21.50                   | 24.65              | 22.50             | 38.45           | -15.95      |
|                                                   |            |                 |            | 12      | 6         | 20.97                   | 24.12              | 21.97             | 38.45           | -16.48      |
|                                                   |            |                 |            | 25      | 0         | 20.66                   | 23.81              | 21.66             | 38.45           | -16.79      |
|                                                   | 20525      | 836.5           | 16QAM      | 1       | 0         | 21.93                   | 25.08              | 22.93             | 38.45           | -15.52      |
|                                                   |            |                 |            | 1       | 24        | 21.69                   | 24.84              | 22.69             | 38.45           | -15.76      |
|                                                   |            |                 |            | 12      | 6         | 20.66                   | 23.81              | 21.66             | 38.45           | -16.79      |
|                                                   |            |                 |            | 25      | 0         | 20.61                   | 23.76              | 21.61             | 38.45           | -16.84      |
|                                                   | 20625      | 846.5           | 16QAM      | 1       | 0         | 21.10                   | 24.25              | 22.10             | 38.45           | -16.35      |
|                                                   |            |                 |            | 1       | 24        | 21.68                   | 24.83              | 22.68             | 38.45           | -15.77      |
|                                                   |            |                 |            | 12      | 6         | 20.46                   | 23.61              | 21.46             | 38.45           | -16.99      |
|                                                   |            |                 |            | 25      | 0         | 20.62                   | 23.77              | 21.62             | 38.45           | -16.83      |
| 5                                                 | 20425      | 826.5           | 64QAM      | 1       | 0         | 20.65                   | 23.80              | 21.65             | 38.45           | -16.80      |
|                                                   |            |                 |            | 1       | 24        | 20.37                   | 23.52              | 21.37             | 38.45           | -17.08      |
|                                                   |            |                 |            | 12      | 6         | 20.02                   | 23.17              | 21.02             | 38.45           | -17.43      |
|                                                   |            |                 |            | 25      | 0         | 19.93                   | 23.08              | 20.93             | 38.45           | -17.52      |
|                                                   | 20525      | 836.5           | 64QAM      | 1       | 0         | 21.05                   | 24.20              | 22.05             | 38.45           | -16.40      |
|                                                   |            |                 |            | 1       | 24        | 20.55                   | 23.70              | 21.55             | 38.45           | -16.90      |
|                                                   |            |                 |            | 12      | 6         | 19.58                   | 22.73              | 20.58             | 38.45           | -17.87      |
|                                                   |            |                 |            | 25      | 0         | 19.58                   | 22.73              | 20.58             | 38.45           | -17.87      |
|                                                   | 20625      | 846.5           | 64QAM      | 1       | 0         | 20.86                   | 24.01              | 21.86             | 38.45           | -16.59      |
|                                                   |            |                 |            | 1       | 24        | 20.60                   | 23.75              | 21.60             | 38.45           | -16.85      |
|                                                   |            |                 |            | 12      | 6         | 19.66                   | 22.81              | 20.66             | 38.45           | -17.79      |
|                                                   |            |                 |            | 25      | 0         | 19.68                   | 22.83              | 20.68             | 38.45           | -17.77      |

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| Antenna gain (dBi)                                |            | 3.15            |            |         |           |                         |                    |                   |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                | 20450      | 829             | QPSK       | 1       | 0         | 22.50                   | 25.65              | 23.50             | 38.45           | -14.95      |
|                                                   |            |                 |            | 1       | 49        | 22.61                   | 25.76              | 23.61             | 38.45           | -14.84      |
|                                                   |            |                 |            | 25      | 12        | 21.86                   | 25.01              | 22.86             | 38.45           | -15.59      |
|                                                   |            |                 |            | 50      | 0         | 21.85                   | 25.00              | 22.85             | 38.45           | -15.60      |
|                                                   | 20525      | 836.5           | QPSK       | 1       | 0         | 22.53                   | 25.68              | 23.53             | 38.45           | -14.92      |
|                                                   |            |                 |            | 1       | 49        | 22.48                   | 25.63              | 23.48             | 38.45           | -14.97      |
|                                                   |            |                 |            | 25      | 12        | 21.63                   | 24.78              | 22.63             | 38.45           | -15.82      |
|                                                   |            |                 |            | 50      | 0         | 21.59                   | 24.74              | 22.59             | 38.45           | -15.86      |
|                                                   | 20600      | 844             | QPSK       | 1       | 0         | 22.43                   | 25.58              | 23.43             | 38.45           | -15.02      |
|                                                   |            |                 |            | 1       | 49        | 22.52                   | 25.67              | 23.52             | 38.45           | -14.93      |
|                                                   |            |                 |            | 25      | 12        | 21.64                   | 24.79              | 22.64             | 38.45           | -15.81      |
|                                                   |            |                 |            | 50      | 0         | 21.60                   | 24.75              | 22.60             | 38.45           | -15.85      |
| 10                                                | 20450      | 829             | 16QAM      | 1       | 0         | 21.52                   | 24.67              | 22.52             | 38.45           | -15.93      |
|                                                   |            |                 |            | 1       | 49        | 21.77                   | 24.92              | 22.77             | 38.45           | -15.68      |
|                                                   |            |                 |            | 25      | 12        | 20.66                   | 23.81              | 21.66             | 38.45           | -16.79      |
|                                                   |            |                 |            | 50      | 0         | 20.90                   | 24.05              | 21.90             | 38.45           | -16.55      |
|                                                   | 20525      | 836.5           | 16QAM      | 1       | 0         | 21.50                   | 24.65              | 22.50             | 38.45           | -15.95      |
|                                                   |            |                 |            | 1       | 49        | 21.79                   | 24.94              | 22.79             | 38.45           | -15.66      |
|                                                   |            |                 |            | 25      | 12        | 20.41                   | 23.56              | 21.41             | 38.45           | -17.04      |
|                                                   |            |                 |            | 50      | 0         | 20.64                   | 23.79              | 21.64             | 38.45           | -16.81      |
|                                                   | 20600      | 844             | 16QAM      | 1       | 0         | 21.48                   | 24.63              | 22.48             | 38.45           | -15.97      |
|                                                   |            |                 |            | 1       | 49        | 22.22                   | 25.37              | 23.22             | 38.45           | -15.23      |
|                                                   |            |                 |            | 25      | 12        | 20.66                   | 23.81              | 21.66             | 38.45           | -16.79      |
|                                                   |            |                 |            | 50      | 0         | 20.62                   | 23.77              | 21.62             | 38.45           | -16.83      |
| 10                                                | 20450      | 829             | 64QAM      | 1       | 0         | 21.31                   | 24.46              | 22.31             | 38.45           | -16.14      |
|                                                   |            |                 |            | 1       | 49        | 20.19                   | 23.34              | 21.19             | 38.45           | -17.26      |
|                                                   |            |                 |            | 25      | 12        | 19.65                   | 22.80              | 20.65             | 38.45           | -17.80      |
|                                                   |            |                 |            | 50      | 0         | 19.96                   | 23.11              | 20.96             | 38.45           | -17.49      |
|                                                   | 20525      | 836.5           | 64QAM      | 1       | 0         | 21.08                   | 24.23              | 22.08             | 38.45           | -16.37      |
|                                                   |            |                 |            | 1       | 49        | 20.68                   | 23.83              | 21.68             | 38.45           | -16.77      |
|                                                   |            |                 |            | 25      | 12        | 19.68                   | 22.83              | 20.68             | 38.45           | -17.77      |
|                                                   |            |                 |            | 50      | 0         | 19.63                   | 22.78              | 20.63             | 38.45           | -17.82      |
|                                                   | 20600      | 844             | 64QAM      | 1       | 0         | 20.23                   | 23.38              | 21.23             | 38.45           | -17.22      |
|                                                   |            |                 |            | 1       | 49        | 20.45                   | 23.60              | 21.45             | 38.45           | -17.00      |
|                                                   |            |                 |            | 25      | 12        | 19.16                   | 22.31              | 20.16             | 38.45           | -18.29      |
|                                                   |            |                 |            | 50      | 0         | 19.66                   | 22.81              | 20.66             | 38.45           | -17.79      |

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| Antenna gain (dBi)                                 |            | 3.37            |            |         |           |                         |                    |                   |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4                                                | 23017      | 699.7           | QPSK       | 1       | 0         | 21.11                   | 24.48              | 22.33             | 34.77           | -12.44      |
|                                                    |            |                 |            | 1       | 5         | 22.78                   | 26.15              | 24.00             | 34.77           | -10.77      |
|                                                    |            |                 |            | 3       | 2         | 22.47                   | 25.84              | 23.69             | 34.77           | -11.08      |
|                                                    |            |                 |            | 6       | 0         | 21.98                   | 25.35              | 23.20             | 34.77           | -11.57      |
|                                                    | 23095      | 707.5           | QPSK       | 1       | 0         | 22.68                   | 26.05              | 23.90             | 34.77           | -10.87      |
|                                                    |            |                 |            | 1       | 5         | 22.69                   | 26.06              | 23.91             | 34.77           | -10.86      |
|                                                    |            |                 |            | 3       | 2         | 22.30                   | 25.67              | 23.52             | 34.77           | -11.25      |
|                                                    |            |                 |            | 6       | 0         | 21.32                   | 24.69              | 22.54             | 34.77           | -12.23      |
|                                                    | 23173      | 715.3           | QPSK       | 1       | 0         | 22.40                   | 25.77              | 23.62             | 34.77           | -11.15      |
|                                                    |            |                 |            | 1       | 5         | 21.37                   | 24.74              | 22.59             | 34.77           | -12.18      |
|                                                    |            |                 |            | 3       | 2         | 22.03                   | 25.40              | 23.25             | 34.77           | -11.52      |
|                                                    |            |                 |            | 6       | 0         | 21.51                   | 24.88              | 22.73             | 34.77           | -12.04      |
| 1.4                                                | 23017      | 699.7           | 16QAM      | 1       | 0         | 21.75                   | 25.12              | 22.97             | 34.77           | -11.80      |
|                                                    |            |                 |            | 1       | 5         | 22.08                   | 25.45              | 23.30             | 34.77           | -11.47      |
|                                                    |            |                 |            | 3       | 2         | 22.02                   | 25.39              | 23.24             | 34.77           | -11.53      |
|                                                    |            |                 |            | 6       | 0         | 20.75                   | 24.12              | 21.97             | 34.77           | -12.80      |
|                                                    | 23095      | 707.5           | 16QAM      | 1       | 0         | 21.76                   | 25.13              | 22.98             | 34.77           | -11.79      |
|                                                    |            |                 |            | 1       | 5         | 20.94                   | 24.31              | 22.16             | 34.77           | -12.61      |
|                                                    |            |                 |            | 3       | 2         | 21.86                   | 25.23              | 23.08             | 34.77           | -11.69      |
|                                                    |            |                 |            | 6       | 0         | 20.18                   | 23.55              | 21.40             | 34.77           | -13.37      |
|                                                    | 23173      | 715.3           | 16QAM      | 1       | 0         | 21.60                   | 24.97              | 22.82             | 34.77           | -11.95      |
|                                                    |            |                 |            | 1       | 5         | 21.36                   | 24.73              | 22.58             | 34.77           | -12.19      |
|                                                    |            |                 |            | 3       | 2         | 21.24                   | 24.61              | 22.46             | 34.77           | -12.31      |
|                                                    |            |                 |            | 6       | 0         | 20.50                   | 23.87              | 21.72             | 34.77           | -13.05      |
| 1.4                                                | 23017      | 699.7           | 64QAM      | 1       | 0         | 20.84                   | 24.21              | 22.06             | 34.77           | -12.71      |
|                                                    |            |                 |            | 1       | 5         | 20.61                   | 23.98              | 21.83             | 34.77           | -12.94      |
|                                                    |            |                 |            | 3       | 2         | 20.84                   | 24.21              | 22.06             | 34.77           | -12.71      |
|                                                    |            |                 |            | 6       | 0         | 19.81                   | 23.18              | 21.03             | 34.77           | -13.74      |
|                                                    | 23095      | 707.5           | 64QAM      | 1       | 0         | 21.04                   | 24.41              | 22.26             | 34.77           | -12.51      |
|                                                    |            |                 |            | 1       | 5         | 20.89                   | 24.26              | 22.11             | 34.77           | -12.66      |
|                                                    |            |                 |            | 3       | 2         | 20.67                   | 24.04              | 21.89             | 34.77           | -12.88      |
|                                                    |            |                 |            | 6       | 0         | 19.52                   | 22.89              | 20.74             | 34.77           | -14.03      |
|                                                    | 23173      | 715.3           | 64QAM      | 1       | 0         | 20.91                   | 24.28              | 22.13             | 34.77           | -12.64      |
|                                                    |            |                 |            | 1       | 5         | 20.10                   | 23.47              | 21.32             | 34.77           | -13.45      |
|                                                    |            |                 |            | 3       | 2         | 20.65                   | 24.02              | 21.87             | 34.77           | -12.90      |
|                                                    |            |                 |            | 6       | 0         | 19.67                   | 23.04              | 20.89             | 34.77           | -13.88      |

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| Antenna gain (dBi)                                 |            | 3.37            |            |         |           |                         |                    |                   |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 3                                                  | 23025      | 700.5           | QPSK       | 1       | 0         | 22.61                   | 25.98              | 23.83             | 34.77           | -10.94      |
|                                                    |            |                 |            | 1       | 14        | 22.82                   | 26.19              | 24.04             | 34.77           | -10.73      |
|                                                    |            |                 |            | 8       | 4         | 21.97                   | 25.34              | 23.19             | 34.77           | -11.58      |
|                                                    |            |                 |            | 15      | 0         | 21.95                   | 25.32              | 23.17             | 34.77           | -11.60      |
|                                                    | 23095      | 707.5           | QPSK       | 1       | 0         | 22.82                   | 26.19              | 24.04             | 34.77           | -10.73      |
|                                                    |            |                 |            | 1       | 14        | 22.57                   | 25.94              | 23.79             | 34.77           | -10.98      |
|                                                    |            |                 |            | 8       | 4         | 21.94                   | 25.31              | 23.16             | 34.77           | -11.61      |
|                                                    |            |                 |            | 15      | 0         | 21.89                   | 25.26              | 23.11             | 34.77           | -11.66      |
|                                                    | 23165      | 714.5           | QPSK       | 1       | 0         | 22.73                   | 26.10              | 23.95             | 34.77           | -10.82      |
|                                                    |            |                 |            | 1       | 14        | 22.67                   | 26.04              | 23.89             | 34.77           | -10.88      |
|                                                    |            |                 |            | 8       | 4         | 21.55                   | 24.92              | 22.77             | 34.77           | -12.00      |
|                                                    |            |                 |            | 15      | 0         | 21.85                   | 25.22              | 23.07             | 34.77           | -11.70      |
| 3                                                  | 23025      | 700.5           | 16QAM      | 1       | 0         | 21.84                   | 25.21              | 23.06             | 34.77           | -11.71      |
|                                                    |            |                 |            | 1       | 14        | 21.79                   | 25.16              | 23.01             | 34.77           | -11.76      |
|                                                    |            |                 |            | 8       | 4         | 20.97                   | 24.34              | 22.19             | 34.77           | -12.58      |
|                                                    |            |                 |            | 15      | 0         | 21.02                   | 24.39              | 22.24             | 34.77           | -12.53      |
|                                                    | 23095      | 707.5           | 16QAM      | 1       | 0         | 21.97                   | 25.34              | 23.19             | 34.77           | -11.58      |
|                                                    |            |                 |            | 1       | 14        | 21.74                   | 25.11              | 22.96             | 34.77           | -11.81      |
|                                                    |            |                 |            | 8       | 4         | 21.02                   | 24.39              | 22.24             | 34.77           | -12.53      |
|                                                    |            |                 |            | 15      | 0         | 20.88                   | 24.25              | 22.10             | 34.77           | -12.67      |
|                                                    | 23165      | 714.5           | 16QAM      | 1       | 0         | 22.04                   | 25.41              | 23.26             | 34.77           | -11.51      |
|                                                    |            |                 |            | 1       | 14        | 21.67                   | 25.04              | 22.89             | 34.77           | -11.88      |
|                                                    |            |                 |            | 8       | 4         | 20.65                   | 24.02              | 21.87             | 34.77           | -12.90      |
|                                                    |            |                 |            | 15      | 0         | 20.45                   | 23.82              | 21.67             | 34.77           | -13.10      |
| 3                                                  | 23025      | 700.5           | 64QAM      | 1       | 0         | 20.48                   | 23.85              | 21.70             | 34.77           | -13.07      |
|                                                    |            |                 |            | 1       | 14        | 20.70                   | 24.07              | 21.92             | 34.77           | -12.85      |
|                                                    |            |                 |            | 8       | 4         | 20.11                   | 23.48              | 21.33             | 34.77           | -13.44      |
|                                                    |            |                 |            | 15      | 0         | 20.03                   | 23.40              | 21.25             | 34.77           | -13.52      |
|                                                    | 23095      | 707.5           | 64QAM      | 1       | 0         | 20.89                   | 24.26              | 22.11             | 34.77           | -12.66      |
|                                                    |            |                 |            | 1       | 14        | 20.12                   | 23.49              | 21.34             | 34.77           | -13.43      |
|                                                    |            |                 |            | 8       | 4         | 20.06                   | 23.43              | 21.28             | 34.77           | -13.49      |
|                                                    |            |                 |            | 15      | 0         | 19.68                   | 23.05              | 20.90             | 34.77           | -13.87      |
|                                                    | 23165      | 714.5           | 64QAM      | 1       | 0         | 20.66                   | 24.03              | 21.88             | 34.77           | -12.89      |
|                                                    |            |                 |            | 1       | 14        | 20.66                   | 24.03              | 21.88             | 34.77           | -12.89      |
|                                                    |            |                 |            | 8       | 4         | 20.01                   | 23.38              | 21.23             | 34.77           | -13.54      |
|                                                    |            |                 |            | 15      | 0         | 18.69                   | 22.06              | 19.91             | 34.77           | -14.86      |

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| Antenna gain (dBi)                                 |            | 3.37            |            |         |           |                         |                    |                   |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                  | 23035      | 701.5           | QPSK       | 1       | 0         | 22.91                   | 26.28              | 24.13             | 34.77           | -10.64      |
|                                                    |            |                 |            | 1       | 24        | 22.88                   | 26.25              | 24.10             | 34.77           | -10.67      |
|                                                    |            |                 |            | 12      | 6         | 21.99                   | 25.36              | 23.21             | 34.77           | -11.56      |
|                                                    |            |                 |            | 25      | 0         | 21.77                   | 25.14              | 22.99             | 34.77           | -11.78      |
|                                                    | 23095      | 707.5           | QPSK       | 1       | 0         | 22.85                   | 26.22              | 24.07             | 34.77           | -10.70      |
|                                                    |            |                 |            | 1       | 24        | 22.81                   | 26.18              | 24.03             | 34.77           | -10.74      |
|                                                    |            |                 |            | 12      | 6         | 21.86                   | 25.23              | 23.08             | 34.77           | -11.69      |
|                                                    |            |                 |            | 25      | 0         | 21.86                   | 25.23              | 23.08             | 34.77           | -11.69      |
|                                                    | 23155      | 713.5           | QPSK       | 1       | 0         | 22.64                   | 26.01              | 23.86             | 34.77           | -10.91      |
|                                                    |            |                 |            | 1       | 24        | 22.68                   | 26.05              | 23.90             | 34.77           | -10.87      |
|                                                    |            |                 |            | 12      | 6         | 21.42                   | 24.79              | 22.64             | 34.77           | -12.13      |
|                                                    |            |                 |            | 25      | 0         | 21.56                   | 24.93              | 22.78             | 34.77           | -11.99      |
| 5                                                  | 23035      | 701.5           | 16QAM      | 1       | 0         | 22.10                   | 25.47              | 23.32             | 34.77           | -11.45      |
|                                                    |            |                 |            | 1       | 24        | 22.23                   | 25.60              | 23.45             | 34.77           | -11.32      |
|                                                    |            |                 |            | 12      | 6         | 21.03                   | 24.40              | 22.25             | 34.77           | -12.52      |
|                                                    |            |                 |            | 25      | 0         | 21.00                   | 24.37              | 22.22             | 34.77           | -12.55      |
|                                                    | 23095      | 707.5           | 16QAM      | 1       | 0         | 21.78                   | 25.15              | 23.00             | 34.77           | -11.77      |
|                                                    |            |                 |            | 1       | 24        | 22.17                   | 25.54              | 23.39             | 34.77           | -11.38      |
|                                                    |            |                 |            | 12      | 6         | 20.75                   | 24.12              | 21.97             | 34.77           | -12.80      |
|                                                    |            |                 |            | 25      | 0         | 20.92                   | 24.29              | 22.14             | 34.77           | -12.63      |
|                                                    | 23155      | 713.5           | 16QAM      | 1       | 0         | 22.19                   | 25.56              | 23.41             | 34.77           | -11.36      |
|                                                    |            |                 |            | 1       | 24        | 21.28                   | 24.65              | 22.50             | 34.77           | -12.27      |
|                                                    |            |                 |            | 12      | 6         | 20.63                   | 24.00              | 21.85             | 34.77           | -12.92      |
|                                                    |            |                 |            | 25      | 0         | 20.84                   | 24.21              | 22.06             | 34.77           | -12.71      |
| 5                                                  | 23035      | 701.5           | 64QAM      | 1       | 0         | 21.19                   | 24.56              | 22.41             | 34.77           | -12.36      |
|                                                    |            |                 |            | 1       | 24        | 20.65                   | 24.02              | 21.87             | 34.77           | -12.90      |
|                                                    |            |                 |            | 12      | 6         | 20.03                   | 23.40              | 21.25             | 34.77           | -13.52      |
|                                                    |            |                 |            | 25      | 0         | 20.06                   | 23.43              | 21.28             | 34.77           | -13.49      |
|                                                    | 23095      | 707.5           | 64QAM      | 1       | 0         | 20.84                   | 24.21              | 22.06             | 34.77           | -12.71      |
|                                                    |            |                 |            | 1       | 24        | 20.88                   | 24.25              | 22.10             | 34.77           | -12.67      |
|                                                    |            |                 |            | 12      | 6         | 19.95                   | 23.32              | 21.17             | 34.77           | -13.60      |
|                                                    |            |                 |            | 25      | 0         | 19.91                   | 23.28              | 21.13             | 34.77           | -13.64      |
|                                                    | 23155      | 713.5           | 64QAM      | 1       | 0         | 20.16                   | 23.53              | 21.38             | 34.77           | -13.39      |
|                                                    |            |                 |            | 1       | 24        | 19.01                   | 22.38              | 20.23             | 34.77           | -14.54      |
|                                                    |            |                 |            | 12      | 6         | 19.22                   | 22.59              | 20.44             | 34.77           | -14.33      |
|                                                    |            |                 |            | 25      | 0         | 19.87                   | 23.24              | 21.09             | 34.77           | -13.68      |

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| Antenna gain (dBi)                                 |            | 3.37            |            |         |           |                         |                    |                   |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                 | 23060      | 704             | QPSK       | 1       | 0         | 22.77                   | 26.14              | 23.99             | 34.77           | -10.78      |
|                                                    |            |                 |            | 1       | 49        | 22.77                   | 26.14              | 23.99             | 34.77           | -10.78      |
|                                                    |            |                 |            | 25      | 12        | 22.00                   | 25.37              | 23.22             | 34.77           | -11.55      |
|                                                    |            |                 |            | 50      | 0         | 21.99                   | 25.36              | 23.21             | 34.77           | -11.56      |
|                                                    | 23095      | 707.5           | QPSK       | 1       | 0         | 22.47                   | 25.84              | 23.69             | 34.77           | -11.08      |
|                                                    |            |                 |            | 1       | 49        | 22.54                   | 25.91              | 23.76             | 34.77           | -11.01      |
|                                                    |            |                 |            | 25      | 12        | 21.43                   | 24.80              | 22.65             | 34.77           | -12.12      |
|                                                    |            |                 |            | 50      | 0         | 21.37                   | 24.74              | 22.59             | 34.77           | -12.18      |
|                                                    | 23130      | 711             | QPSK       | 1       | 0         | 22.53                   | 25.90              | 23.75             | 34.77           | -11.02      |
|                                                    |            |                 |            | 1       | 49        | 22.32                   | 25.69              | 23.54             | 34.77           | -11.23      |
|                                                    |            |                 |            | 25      | 12        | 21.83                   | 25.20              | 23.05             | 34.77           | -11.72      |
|                                                    |            |                 |            | 50      | 0         | 21.48                   | 24.85              | 22.70             | 34.77           | -12.07      |
| 10                                                 | 23060      | 704             | 16QAM      | 1       | 0         | 21.85                   | 25.22              | 23.07             | 34.77           | -11.70      |
|                                                    |            |                 |            | 1       | 49        | 21.93                   | 25.30              | 23.15             | 34.77           | -11.62      |
|                                                    |            |                 |            | 25      | 12        | 20.76                   | 24.13              | 21.98             | 34.77           | -12.79      |
|                                                    |            |                 |            | 50      | 0         | 21.03                   | 24.40              | 22.25             | 34.77           | -12.52      |
|                                                    | 23095      | 707.5           | 16QAM      | 1       | 0         | 21.81                   | 25.18              | 23.03             | 34.77           | -11.74      |
|                                                    |            |                 |            | 1       | 49        | 21.66                   | 25.03              | 22.88             | 34.77           | -11.89      |
|                                                    |            |                 |            | 25      | 12        | 20.72                   | 24.09              | 21.94             | 34.77           | -12.83      |
|                                                    |            |                 |            | 50      | 0         | 20.88                   | 24.25              | 22.10             | 34.77           | -12.67      |
|                                                    | 23130      | 711             | 16QAM      | 1       | 0         | 22.00                   | 25.37              | 23.22             | 34.77           | -11.55      |
|                                                    |            |                 |            | 1       | 49        | 21.53                   | 24.90              | 22.75             | 34.77           | -12.02      |
|                                                    |            |                 |            | 25      | 12        | 20.92                   | 24.29              | 22.14             | 34.77           | -12.63      |
|                                                    |            |                 |            | 50      | 0         | 20.66                   | 24.03              | 21.88             | 34.77           | -12.89      |
| 10                                                 | 23060      | 704             | 64QAM      | 1       | 0         | 20.68                   | 24.05              | 21.90             | 34.77           | -12.87      |
|                                                    |            |                 |            | 1       | 49        | 21.04                   | 24.41              | 22.26             | 34.77           | -12.51      |
|                                                    |            |                 |            | 25      | 12        | 20.03                   | 23.40              | 21.25             | 34.77           | -13.52      |
|                                                    |            |                 |            | 50      | 0         | 19.99                   | 23.36              | 21.21             | 34.77           | -13.56      |
|                                                    | 23095      | 707.5           | 64QAM      | 1       | 0         | 20.92                   | 24.29              | 22.14             | 34.77           | -12.63      |
|                                                    |            |                 |            | 1       | 49        | 20.68                   | 24.05              | 21.90             | 34.77           | -12.87      |
|                                                    |            |                 |            | 25      | 12        | 19.94                   | 23.31              | 21.16             | 34.77           | -13.61      |
|                                                    |            |                 |            | 50      | 0         | 19.90                   | 23.27              | 21.12             | 34.77           | -13.65      |
|                                                    | 23130      | 711             | 64QAM      | 1       | 0         | 20.91                   | 24.28              | 22.13             | 34.77           | -12.64      |
|                                                    |            |                 |            | 1       | 49        | 20.75                   | 24.12              | 21.97             | 34.77           | -12.80      |
|                                                    |            |                 |            | 25      | 12        | 19.83                   | 23.20              | 21.05             | 34.77           | -13.72      |
|                                                    |            |                 |            | 50      | 0         | 19.83                   | 23.20              | 21.05             | 34.77           | -13.72      |

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| Antenna gain (dBi)                                 |            | 3.37            |            |         |           |                         |                    |                   |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 13_Uplink frequency band : 777 to 787 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                  | 23205      | 779.5           | QPSK       | 1       | 0         | 22.61                   | 25.98              | 23.83             | 34.77           | -10.94      |
|                                                    |            |                 |            | 1       | 24        | 22.63                   | 26.00              | 23.85             | 34.77           | -10.92      |
|                                                    |            |                 |            | 12      | 6         | 21.77                   | 25.14              | 22.99             | 34.77           | -11.78      |
|                                                    |            |                 |            | 25      | 0         | 21.46                   | 24.83              | 22.68             | 34.77           | -12.09      |
|                                                    | 23230      | 782             | QPSK       | 1       | 0         | 22.46                   | 25.83              | 23.68             | 34.77           | -11.09      |
|                                                    |            |                 |            | 1       | 24        | 22.49                   | 25.86              | 23.71             | 34.77           | -11.06      |
|                                                    |            |                 |            | 12      | 6         | 21.72                   | 25.09              | 22.94             | 34.77           | -11.83      |
|                                                    |            |                 |            | 25      | 0         | 21.68                   | 25.05              | 22.90             | 34.77           | -11.87      |
|                                                    | 23255      | 784.5           | QPSK       | 1       | 0         | 22.55                   | 25.92              | 23.77             | 34.77           | -11.00      |
|                                                    |            |                 |            | 1       | 24        | 22.55                   | 25.92              | 23.77             | 34.77           | -11.00      |
|                                                    |            |                 |            | 12      | 6         | 21.63                   | 25.00              | 22.85             | 34.77           | -11.92      |
|                                                    |            |                 |            | 25      | 0         | 21.67                   | 25.04              | 22.89             | 34.77           | -11.88      |
| 5                                                  | 23205      | 779.5           | 16QAM      | 1       | 0         | 21.98                   | 25.35              | 23.20             | 34.77           | -11.57      |
|                                                    |            |                 |            | 1       | 24        | 22.05                   | 25.42              | 23.27             | 34.77           | -11.50      |
|                                                    |            |                 |            | 12      | 6         | 20.89                   | 24.26              | 22.11             | 34.77           | -12.66      |
|                                                    |            |                 |            | 25      | 0         | 20.82                   | 24.19              | 22.04             | 34.77           | -12.73      |
|                                                    | 23230      | 782             | 16QAM      | 1       | 0         | 22.10                   | 25.47              | 23.32             | 34.77           | -11.45      |
|                                                    |            |                 |            | 1       | 24        | 22.07                   | 25.44              | 23.29             | 34.77           | -11.48      |
|                                                    |            |                 |            | 12      | 6         | 20.53                   | 23.90              | 21.75             | 34.77           | -13.02      |
|                                                    |            |                 |            | 25      | 0         | 20.53                   | 23.90              | 21.75             | 34.77           | -13.02      |
|                                                    | 23255      | 784.5           | 16QAM      | 1       | 0         | 21.70                   | 25.07              | 22.92             | 34.77           | -11.85      |
|                                                    |            |                 |            | 1       | 24        | 21.56                   | 24.93              | 22.78             | 34.77           | -11.99      |
|                                                    |            |                 |            | 12      | 6         | 20.62                   | 23.99              | 21.84             | 34.77           | -12.93      |
|                                                    |            |                 |            | 25      | 0         | 20.38                   | 23.75              | 21.60             | 34.77           | -13.17      |
| 5                                                  | 23205      | 779.5           | 64QAM      | 1       | 0         | 20.99                   | 24.36              | 22.21             | 34.77           | -12.56      |
|                                                    |            |                 |            | 1       | 24        | 20.27                   | 23.64              | 21.49             | 34.77           | -13.28      |
|                                                    |            |                 |            | 12      | 6         | 19.83                   | 23.20              | 21.05             | 34.77           | -13.72      |
|                                                    |            |                 |            | 25      | 0         | 19.82                   | 23.19              | 21.04             | 34.77           | -13.73      |
|                                                    | 23230      | 782             | 64QAM      | 1       | 0         | 21.20                   | 24.57              | 22.42             | 34.77           | -12.35      |
|                                                    |            |                 |            | 1       | 24        | 20.74                   | 24.11              | 21.96             | 34.77           | -12.81      |
|                                                    |            |                 |            | 12      | 6         | 19.71                   | 23.08              | 20.93             | 34.77           | -13.84      |
|                                                    |            |                 |            | 25      | 0         | 19.74                   | 23.11              | 20.96             | 34.77           | -13.81      |
|                                                    | 23255      | 784.5           | 64QAM      | 1       | 0         | 20.81                   | 24.18              | 22.03             | 34.77           | -12.74      |
|                                                    |            |                 |            | 1       | 24        | 20.67                   | 24.04              | 21.89             | 34.77           | -12.88      |
|                                                    |            |                 |            | 12      | 6         | 19.50                   | 22.87              | 20.72             | 34.77           | -14.05      |
|                                                    |            |                 |            | 25      | 0         | 19.68                   | 23.05              | 20.90             | 34.77           | -13.87      |

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| Antenna gain (dBi)                                 |            | 3.37            |            |         |           |                         |                    |                   |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 13_Uplink frequency band : 777 to 787 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                 | 23230      | 782             | QPSK       | 1       | 0         | 22.41                   | 25.78              | 23.63             | 34.77           | -11.14      |
|                                                    |            |                 |            | 1       | 49        | 22.64                   | 26.01              | 23.86             | 34.77           | -10.91      |
|                                                    |            |                 |            | 25      | 12        | 21.75                   | 25.12              | 22.97             | 34.77           | -11.80      |
|                                                    |            |                 |            | 50      | 0         | 21.74                   | 25.11              | 22.96             | 34.77           | -11.81      |
| 10                                                 | 23230      | 782             | 16QAM      | 1       | 0         | 21.39                   | 24.76              | 22.61             | 34.77           | -12.16      |
|                                                    |            |                 |            | 1       | 49        | 21.49                   | 24.86              | 22.71             | 34.77           | -12.06      |
|                                                    |            |                 |            | 25      | 12        | 20.73                   | 24.10              | 21.95             | 34.77           | -12.82      |
|                                                    |            |                 |            | 50      | 0         | 20.63                   | 24.00              | 21.85             | 34.77           | -12.92      |
| 10                                                 | 23230      | 782             | 64QAM      | 1       | 0         | 20.84                   | 24.21              | 22.06             | 34.77           | -12.71      |
|                                                    |            |                 |            | 1       | 49        | 20.27                   | 23.64              | 21.49             | 34.77           | -13.28      |
|                                                    |            |                 |            | 25      | 12        | 19.80                   | 23.17              | 21.02             | 34.77           | -13.75      |
|                                                    |            |                 |            | 50      | 0         | 19.79                   | 23.16              | 21.01             | 34.77           | -13.76      |

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| Antenna gain (dBi)                                   |            | 3.32            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4                                                  | 131979     | 1710.7          | QPSK       | 1       | 0         | 22.93                   | 26.25              | 30               | -3.75       |
|                                                      |            |                 |            | 1       | 5         | 22.47                   | 25.79              | 30               | -4.21       |
|                                                      |            |                 |            | 3       | 2         | 23.01                   | 26.33              | 30               | -3.67       |
|                                                      |            |                 |            | 6       | 0         | 22.02                   | 25.34              | 30               | -4.66       |
|                                                      | 132322     | 1745            | QPSK       | 1       | 0         | 22.93                   | 26.25              | 30               | -3.75       |
|                                                      |            |                 |            | 1       | 5         | 22.50                   | 25.82              | 30               | -4.18       |
|                                                      |            |                 |            | 3       | 2         | 23.07                   | 26.39              | 30               | -3.61       |
|                                                      |            |                 |            | 6       | 0         | 22.16                   | 25.48              | 30               | -4.52       |
|                                                      | 132665     | 1779.3          | QPSK       | 1       | 0         | 22.91                   | 26.23              | 30               | -3.77       |
|                                                      |            |                 |            | 1       | 5         | 22.53                   | 25.85              | 30               | -4.15       |
|                                                      |            |                 |            | 3       | 2         | 23.05                   | 26.37              | 30               | -3.63       |
|                                                      |            |                 |            | 6       | 0         | 22.11                   | 25.43              | 30               | -4.57       |
| 1.4                                                  | 131979     | 1710.7          | 16QAM      | 1       | 0         | 22.27                   | 25.59              | 30               | -4.41       |
|                                                      |            |                 |            | 1       | 5         | 22.05                   | 25.37              | 30               | -4.63       |
|                                                      |            |                 |            | 3       | 2         | 22.00                   | 25.32              | 30               | -4.68       |
|                                                      |            |                 |            | 6       | 0         | 21.09                   | 24.41              | 30               | -5.59       |
|                                                      | 132322     | 1745            | 16QAM      | 1       | 0         | 22.63                   | 25.95              | 30               | -4.05       |
|                                                      |            |                 |            | 1       | 5         | 22.05                   | 25.37              | 30               | -4.63       |
|                                                      |            |                 |            | 3       | 2         | 22.30                   | 25.62              | 30               | -4.38       |
|                                                      |            |                 |            | 6       | 0         | 21.20                   | 24.52              | 30               | -5.48       |
|                                                      | 132665     | 1779.3          | 16QAM      | 1       | 0         | 22.09                   | 25.41              | 30               | -4.59       |
|                                                      |            |                 |            | 1       | 5         | 21.83                   | 25.15              | 30               | -4.85       |
|                                                      |            |                 |            | 3       | 2         | 21.84                   | 25.16              | 30               | -4.84       |
|                                                      |            |                 |            | 6       | 0         | 21.16                   | 24.48              | 30               | -5.52       |
| 1.4                                                  | 131979     | 1710.7          | 64QAM      | 1       | 0         | 21.37                   | 24.69              | 30               | -5.31       |
|                                                      |            |                 |            | 1       | 5         | 21.01                   | 24.33              | 30               | -5.67       |
|                                                      |            |                 |            | 3       | 2         | 21.14                   | 24.46              | 30               | -5.54       |
|                                                      |            |                 |            | 6       | 0         | 20.07                   | 23.39              | 30               | -6.61       |
|                                                      | 132322     | 1745            | 64QAM      | 1       | 0         | 21.05                   | 24.37              | 30               | -5.63       |
|                                                      |            |                 |            | 1       | 5         | 20.92                   | 24.24              | 30               | -5.76       |
|                                                      |            |                 |            | 3       | 2         | 21.26                   | 24.58              | 30               | -5.42       |
|                                                      |            |                 |            | 6       | 0         | 20.25                   | 23.57              | 30               | -6.43       |
|                                                      | 132665     | 1779.3          | 64QAM      | 1       | 0         | 21.31                   | 24.63              | 30               | -5.37       |
|                                                      |            |                 |            | 1       | 5         | 21.03                   | 24.35              | 30               | -5.65       |
|                                                      |            |                 |            | 3       | 2         | 20.78                   | 24.10              | 30               | -5.9        |
|                                                      |            |                 |            | 6       | 0         | 20.20                   | 23.52              | 30               | -6.48       |

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| Antenna gain (dBi)                                   |            | 3.32            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3                                                    | 131987     | 1711.5          | QPSK       | 1       | 0         | 22.72                   | 26.04              | 30               | -3.96       |
|                                                      |            |                 |            | 1       | 14        | 22.82                   | 26.14              | 30               | -3.86       |
|                                                      |            |                 |            | 8       | 4         | 22.12                   | 25.44              | 30               | -4.56       |
|                                                      |            |                 |            | 15      | 0         | 22.08                   | 25.40              | 30               | -4.6        |
|                                                      | 132322     | 1745            | QPSK       | 1       | 0         | 22.56                   | 25.88              | 30               | -4.12       |
|                                                      |            |                 |            | 1       | 14        | 22.62                   | 25.94              | 30               | -4.06       |
|                                                      |            |                 |            | 8       | 4         | 22.16                   | 25.48              | 30               | -4.52       |
|                                                      |            |                 |            | 15      | 0         | 22.12                   | 25.44              | 30               | -4.56       |
|                                                      | 132657     | 1778.5          | QPSK       | 1       | 0         | 22.82                   | 26.14              | 30               | -3.86       |
|                                                      |            |                 |            | 1       | 14        | 22.79                   | 26.11              | 30               | -3.89       |
|                                                      |            |                 |            | 8       | 4         | 22.15                   | 25.47              | 30               | -4.53       |
|                                                      |            |                 |            | 15      | 0         | 22.12                   | 25.44              | 30               | -4.56       |
| 3                                                    | 131987     | 1711.5          | 16QAM      | 1       | 0         | 21.94                   | 25.26              | 30               | -4.74       |
|                                                      |            |                 |            | 1       | 14        | 21.82                   | 25.14              | 30               | -4.86       |
|                                                      |            |                 |            | 8       | 4         | 21.12                   | 24.44              | 30               | -5.56       |
|                                                      |            |                 |            | 15      | 0         | 21.13                   | 24.45              | 30               | -5.55       |
|                                                      | 132322     | 1745            | 16QAM      | 1       | 0         | 22.19                   | 25.51              | 30               | -4.49       |
|                                                      |            |                 |            | 1       | 14        | 22.60                   | 25.92              | 30               | -4.08       |
|                                                      |            |                 |            | 8       | 4         | 21.26                   | 24.58              | 30               | -5.42       |
|                                                      |            |                 |            | 15      | 0         | 21.20                   | 24.52              | 30               | -5.48       |
|                                                      | 132657     | 1778.5          | 16QAM      | 1       | 0         | 22.08                   | 25.40              | 30               | -4.6        |
|                                                      |            |                 |            | 1       | 14        | 22.37                   | 25.69              | 30               | -4.31       |
|                                                      |            |                 |            | 8       | 4         | 21.20                   | 24.52              | 30               | -5.48       |
|                                                      |            |                 |            | 15      | 0         | 21.20                   | 24.52              | 30               | -5.48       |
| 3                                                    | 131987     | 1711.5          | 64QAM      | 1       | 0         | 21.27                   | 24.59              | 30               | -5.41       |
|                                                      |            |                 |            | 1       | 14        | 20.97                   | 24.29              | 30               | -5.71       |
|                                                      |            |                 |            | 8       | 4         | 20.21                   | 23.53              | 30               | -6.47       |
|                                                      |            |                 |            | 15      | 0         | 20.14                   | 23.46              | 30               | -6.54       |
|                                                      | 132322     | 1745            | 64QAM      | 1       | 0         | 20.97                   | 24.29              | 30               | -5.71       |
|                                                      |            |                 |            | 1       | 14        | 21.44                   | 24.76              | 30               | -5.24       |
|                                                      |            |                 |            | 8       | 4         | 20.28                   | 23.60              | 30               | -6.4        |
|                                                      |            |                 |            | 15      | 0         | 20.20                   | 23.52              | 30               | -6.48       |
|                                                      | 132657     | 1778.5          | 64QAM      | 1       | 0         | 21.03                   | 24.35              | 30               | -5.65       |
|                                                      |            |                 |            | 1       | 14        | 21.11                   | 24.43              | 30               | -5.57       |
|                                                      |            |                 |            | 8       | 4         | 20.19                   | 23.51              | 30               | -6.49       |
|                                                      |            |                 |            | 15      | 0         | 20.19                   | 23.51              | 30               | -6.49       |

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| Antenna gain (dBi)                                   |            | 3.32            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5                                                    | 131997     | 1712.5          | QPSK       | 1       | 0         | 22.46                   | 25.78              | 30               | -4.22       |
|                                                      |            |                 |            | 1       | 24        | 22.32                   | 25.64              | 30               | -4.36       |
|                                                      |            |                 |            | 12      | 6         | 22.11                   | 25.43              | 30               | -4.57       |
|                                                      |            |                 |            | 25      | 0         | 22.13                   | 25.45              | 30               | -4.55       |
|                                                      | 132322     | 1745            | QPSK       | 1       | 0         | 22.58                   | 25.90              | 30               | -4.1        |
|                                                      |            |                 |            | 1       | 24        | 22.52                   | 25.84              | 30               | -4.16       |
|                                                      |            |                 |            | 12      | 6         | 22.16                   | 25.48              | 30               | -4.52       |
|                                                      |            |                 |            | 25      | 0         | 22.15                   | 25.47              | 30               | -4.53       |
|                                                      | 132647     | 1777.5          | QPSK       | 1       | 0         | 22.32                   | 25.64              | 30               | -4.36       |
|                                                      |            |                 |            | 1       | 24        | 22.35                   | 25.67              | 30               | -4.33       |
|                                                      |            |                 |            | 12      | 6         | 22.20                   | 25.52              | 30               | -4.48       |
|                                                      |            |                 |            | 25      | 0         | 22.17                   | 25.49              | 30               | -4.51       |
| 5                                                    | 131997     | 1712.5          | 16QAM      | 1       | 0         | 22.13                   | 25.45              | 30               | -4.55       |
|                                                      |            |                 |            | 1       | 24        | 22.02                   | 25.34              | 30               | -4.66       |
|                                                      |            |                 |            | 12      | 6         | 21.09                   | 24.41              | 30               | -5.59       |
|                                                      |            |                 |            | 25      | 0         | 21.12                   | 24.44              | 30               | -5.56       |
|                                                      | 132322     | 1745            | 16QAM      | 1       | 0         | 21.78                   | 25.10              | 30               | -4.9        |
|                                                      |            |                 |            | 1       | 24        | 21.55                   | 24.87              | 30               | -5.13       |
|                                                      |            |                 |            | 12      | 6         | 21.18                   | 24.50              | 30               | -5.5        |
|                                                      |            |                 |            | 25      | 0         | 21.15                   | 24.47              | 30               | -5.53       |
|                                                      | 132647     | 1777.5          | 16QAM      | 1       | 0         | 21.72                   | 25.04              | 30               | -4.96       |
|                                                      |            |                 |            | 1       | 24        | 22.27                   | 25.59              | 30               | -4.41       |
|                                                      |            |                 |            | 12      | 6         | 21.31                   | 24.63              | 30               | -5.37       |
|                                                      |            |                 |            | 25      | 0         | 21.19                   | 24.51              | 30               | -5.49       |
| 5                                                    | 131997     | 1712.5          | 64QAM      | 1       | 0         | 21.16                   | 24.48              | 30               | -5.52       |
|                                                      |            |                 |            | 1       | 24        | 21.24                   | 24.56              | 30               | -5.44       |
|                                                      |            |                 |            | 12      | 6         | 20.19                   | 23.51              | 30               | -6.49       |
|                                                      |            |                 |            | 25      | 0         | 20.11                   | 23.43              | 30               | -6.57       |
|                                                      | 132322     | 1745            | 64QAM      | 1       | 0         | 20.86                   | 24.18              | 30               | -5.82       |
|                                                      |            |                 |            | 1       | 24        | 21.24                   | 24.56              | 30               | -5.44       |
|                                                      |            |                 |            | 12      | 6         | 20.29                   | 23.61              | 30               | -6.39       |
|                                                      |            |                 |            | 25      | 0         | 20.17                   | 23.49              | 30               | -6.51       |
|                                                      | 132647     | 1777.5          | 64QAM      | 1       | 0         | 20.98                   | 24.30              | 30               | -5.7        |
|                                                      |            |                 |            | 1       | 24        | 21.37                   | 24.69              | 30               | -5.31       |
|                                                      |            |                 |            | 12      | 6         | 20.28                   | 23.60              | 30               | -6.4        |
|                                                      |            |                 |            | 25      | 0         | 20.32                   | 23.64              | 30               | -6.36       |

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| Antenna gain (dBi)                                   |            | 3.32            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                   | 132022     | 1715            | QPSK       | 1       | 0         | 22.91                   | 26.23              | 30               | -3.77       |
|                                                      |            |                 |            | 1       | 49        | 23.06                   | 26.38              | 30               | -3.62       |
|                                                      |            |                 |            | 25      | 12        | 22.14                   | 25.46              | 30               | -4.54       |
|                                                      |            |                 |            | 50      | 0         | 22.10                   | 25.42              | 30               | -4.58       |
|                                                      | 132322     | 1745            | QPSK       | 1       | 0         | 23.14                   | 26.46              | 30               | -3.54       |
|                                                      |            |                 |            | 1       | 49        | 22.76                   | 26.08              | 30               | -3.92       |
|                                                      |            |                 |            | 25      | 12        | 22.16                   | 25.48              | 30               | -4.52       |
|                                                      |            |                 |            | 50      | 0         | 22.13                   | 25.45              | 30               | -4.55       |
|                                                      | 132622     | 1775            | QPSK       | 1       | 0         | 22.96                   | 26.28              | 30               | -3.72       |
|                                                      |            |                 |            | 1       | 49        | 23.00                   | 26.32              | 30               | -3.68       |
|                                                      |            |                 |            | 25      | 12        | 22.08                   | 25.40              | 30               | -4.6        |
|                                                      |            |                 |            | 50      | 0         | 22.16                   | 25.48              | 30               | -4.52       |
| 10                                                   | 132022     | 1715            | 16QAM      | 1       | 0         | 22.19                   | 25.51              | 30               | -4.49       |
|                                                      |            |                 |            | 1       | 49        | 21.62                   | 24.94              | 30               | -5.06       |
|                                                      |            |                 |            | 25      | 12        | 21.13                   | 24.45              | 30               | -5.55       |
|                                                      |            |                 |            | 50      | 0         | 21.11                   | 24.43              | 30               | -5.57       |
|                                                      | 132322     | 1745            | 16QAM      | 1       | 0         | 22.30                   | 25.62              | 30               | -4.38       |
|                                                      |            |                 |            | 1       | 49        | 22.21                   | 25.53              | 30               | -4.47       |
|                                                      |            |                 |            | 25      | 12        | 21.18                   | 24.50              | 30               | -5.5        |
|                                                      |            |                 |            | 50      | 0         | 21.12                   | 24.44              | 30               | -5.56       |
|                                                      | 132622     | 1775            | 16QAM      | 1       | 0         | 22.38                   | 25.70              | 30               | -4.3        |
|                                                      |            |                 |            | 1       | 49        | 22.41                   | 25.73              | 30               | -4.27       |
|                                                      |            |                 |            | 25      | 12        | 21.15                   | 24.47              | 30               | -5.53       |
|                                                      |            |                 |            | 50      | 0         | 21.12                   | 24.44              | 30               | -5.56       |
| 10                                                   | 132022     | 1715            | 64QAM      | 1       | 0         | 21.08                   | 24.40              | 30               | -5.6        |
|                                                      |            |                 |            | 1       | 49        | 20.99                   | 24.31              | 30               | -5.69       |
|                                                      |            |                 |            | 25      | 12        | 20.13                   | 23.45              | 30               | -6.55       |
|                                                      |            |                 |            | 50      | 0         | 20.16                   | 23.48              | 30               | -6.52       |
|                                                      | 132322     | 1745            | 64QAM      | 1       | 0         | 21.65                   | 24.97              | 30               | -5.03       |
|                                                      |            |                 |            | 1       | 49        | 21.17                   | 24.49              | 30               | -5.51       |
|                                                      |            |                 |            | 25      | 12        | 20.15                   | 23.47              | 30               | -6.53       |
|                                                      |            |                 |            | 50      | 0         | 20.12                   | 23.44              | 30               | -6.56       |
|                                                      | 132622     | 1775            | 64QAM      | 1       | 0         | 21.35                   | 24.67              | 30               | -5.33       |
|                                                      |            |                 |            | 1       | 49        | 20.92                   | 24.24              | 30               | -5.76       |
|                                                      |            |                 |            | 25      | 12        | 20.21                   | 23.53              | 30               | -6.47       |
|                                                      |            |                 |            | 50      | 0         | 20.13                   | 23.45              | 30               | -6.55       |

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| Antenna gain (dBi)                                   |            | 3.32            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                   | 132047     | 1717.5          | QPSK       | 1       | 0         | 22.57                   | 25.89              | 30               | -4.11       |
|                                                      |            |                 |            | 1       | 74        | 21.93                   | 25.25              | 30               | -4.75       |
|                                                      |            |                 |            | 36      | 18        | 22.16                   | 25.48              | 30               | -4.52       |
|                                                      |            |                 |            | 75      | 0         | 22.06                   | 25.38              | 30               | -4.62       |
|                                                      | 132322     | 1745            | QPSK       | 1       | 0         | 22.54                   | 25.86              | 30               | -4.14       |
|                                                      |            |                 |            | 1       | 74        | 22.78                   | 26.10              | 30               | -3.9        |
|                                                      |            |                 |            | 36      | 18        | 22.15                   | 25.47              | 30               | -4.53       |
|                                                      |            |                 |            | 75      | 0         | 22.08                   | 25.40              | 30               | -4.6        |
|                                                      | 132597     | 1772.5          | QPSK       | 1       | 0         | 22.87                   | 26.19              | 30               | -3.81       |
|                                                      |            |                 |            | 1       | 74        | 22.91                   | 26.23              | 30               | -3.77       |
|                                                      |            |                 |            | 36      | 18        | 22.21                   | 25.53              | 30               | -4.47       |
|                                                      |            |                 |            | 75      | 0         | 22.19                   | 25.51              | 30               | -4.49       |
| 15                                                   | 132047     | 1717.5          | 16QAM      | 1       | 0         | 22.12                   | 25.44              | 30               | -4.56       |
|                                                      |            |                 |            | 1       | 74        | 21.77                   | 25.09              | 30               | -4.91       |
|                                                      |            |                 |            | 36      | 18        | 21.22                   | 24.54              | 30               | -5.46       |
|                                                      |            |                 |            | 75      | 0         | 21.12                   | 24.44              | 30               | -5.56       |
|                                                      | 132322     | 1745            | 16QAM      | 1       | 0         | 22.23                   | 25.55              | 30               | -4.45       |
|                                                      |            |                 |            | 1       | 74        | 22.12                   | 25.44              | 30               | -4.56       |
|                                                      |            |                 |            | 36      | 18        | 21.16                   | 24.48              | 30               | -5.52       |
|                                                      |            |                 |            | 75      | 0         | 21.20                   | 24.52              | 30               | -5.48       |
|                                                      | 132597     | 1772.5          | 16QAM      | 1       | 0         | 22.49                   | 25.81              | 30               | -4.19       |
|                                                      |            |                 |            | 1       | 74        | 22.09                   | 25.41              | 30               | -4.59       |
|                                                      |            |                 |            | 36      | 18        | 21.23                   | 24.55              | 30               | -5.45       |
|                                                      |            |                 |            | 75      | 0         | 21.18                   | 24.50              | 30               | -5.5        |
| 15                                                   | 132047     | 1717.5          | 64QAM      | 1       | 0         | 20.96                   | 24.28              | 30               | -5.72       |
|                                                      |            |                 |            | 1       | 74        | 20.79                   | 24.11              | 30               | -5.89       |
|                                                      |            |                 |            | 36      | 18        | 20.19                   | 23.51              | 30               | -6.49       |
|                                                      |            |                 |            | 75      | 0         | 20.16                   | 23.48              | 30               | -6.52       |
|                                                      | 132322     | 1745            | 64QAM      | 1       | 0         | 21.44                   | 24.76              | 30               | -5.24       |
|                                                      |            |                 |            | 1       | 74        | 21.27                   | 24.59              | 30               | -5.41       |
|                                                      |            |                 |            | 36      | 18        | 20.21                   | 23.53              | 30               | -6.47       |
|                                                      |            |                 |            | 75      | 0         | 20.16                   | 23.48              | 30               | -6.52       |
|                                                      | 132597     | 1772.5          | 64QAM      | 1       | 0         | 21.32                   | 24.64              | 30               | -5.36       |
|                                                      |            |                 |            | 1       | 74        | 21.06                   | 24.38              | 30               | -5.62       |
|                                                      |            |                 |            | 36      | 18        | 20.22                   | 23.54              | 30               | -6.46       |
|                                                      |            |                 |            | 75      | 0         | 20.26                   | 23.58              | 30               | -6.42       |

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| Antenna gain (dBi)                                   |            | 3.32            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                   | 132072     | 1720            | QPSK       | 1       | 0         | 22.08                   | 25.40              | 30               | -4.6        |
|                                                      |            |                 |            | 1       | 99        | 22.60                   | 25.92              | 30               | -4.08       |
|                                                      |            |                 |            | 50      | 25        | 22.14                   | 25.46              | 30               | -4.54       |
|                                                      |            |                 |            | 100     | 0         | 22.16                   | 25.48              | 30               | -4.52       |
|                                                      | 132322     | 1745            | QPSK       | 1       | 0         | 23.04                   | 26.36              | 30               | -3.64       |
|                                                      |            |                 |            | 1       | 99        | 23.03                   | 26.35              | 30               | -3.65       |
|                                                      |            |                 |            | 50      | 25        | 22.11                   | 25.43              | 30               | -4.57       |
|                                                      |            |                 |            | 100     | 0         | 22.12                   | 25.44              | 30               | -4.56       |
|                                                      | 132572     | 1770            | QPSK       | 1       | 0         | 22.90                   | 26.22              | 30               | -3.78       |
|                                                      |            |                 |            | 1       | 99        | 22.73                   | 26.05              | 30               | -3.95       |
|                                                      |            |                 |            | 50      | 25        | 22.19                   | 25.51              | 30               | -4.49       |
|                                                      |            |                 |            | 100     | 0         | 22.12                   | 25.44              | 30               | -4.56       |
| 20                                                   | 132072     | 1720            | 16QAM      | 1       | 0         | 22.14                   | 25.46              | 30               | -4.54       |
|                                                      |            |                 |            | 1       | 99        | 22.22                   | 25.54              | 30               | -4.46       |
|                                                      |            |                 |            | 50      | 25        | 21.19                   | 24.51              | 30               | -5.49       |
|                                                      |            |                 |            | 100     | 0         | 21.15                   | 24.47              | 30               | -5.53       |
|                                                      | 132322     | 1745            | 16QAM      | 1       | 0         | 22.38                   | 25.70              | 30               | -4.3        |
|                                                      |            |                 |            | 1       | 99        | 22.43                   | 25.75              | 30               | -4.25       |
|                                                      |            |                 |            | 50      | 25        | 21.19                   | 24.51              | 30               | -5.49       |
|                                                      |            |                 |            | 100     | 0         | 21.14                   | 24.46              | 30               | -5.54       |
|                                                      | 132572     | 1770            | 16QAM      | 1       | 0         | 22.27                   | 25.59              | 30               | -4.41       |
|                                                      |            |                 |            | 1       | 99        | 21.74                   | 25.06              | 30               | -4.94       |
|                                                      |            |                 |            | 50      | 25        | 21.24                   | 24.56              | 30               | -5.44       |
|                                                      |            |                 |            | 100     | 0         | 21.09                   | 24.41              | 30               | -5.59       |
| 20                                                   | 132072     | 1720            | 64QAM      | 1       | 0         | 20.59                   | 23.91              | 30               | -6.09       |
|                                                      |            |                 |            | 1       | 99        | 20.65                   | 23.97              | 30               | -6.03       |
|                                                      |            |                 |            | 50      | 25        | 20.17                   | 23.49              | 30               | -6.51       |
|                                                      |            |                 |            | 100     | 0         | 20.11                   | 23.43              | 30               | -6.57       |
|                                                      | 132322     | 1745            | 64QAM      | 1       | 0         | 21.31                   | 24.63              | 30               | -5.37       |
|                                                      |            |                 |            | 1       | 99        | 21.06                   | 24.38              | 30               | -5.62       |
|                                                      |            |                 |            | 50      | 25        | 20.17                   | 23.49              | 30               | -6.51       |
|                                                      |            |                 |            | 100     | 0         | 20.18                   | 23.50              | 30               | -6.5        |
|                                                      | 132572     | 1770            | 64QAM      | 1       | 0         | 21.26                   | 24.58              | 30               | -5.42       |
|                                                      |            |                 |            | 1       | 99        | 21.21                   | 24.53              | 30               | -5.47       |
|                                                      |            |                 |            | 50      | 25        | 20.28                   | 23.60              | 30               | -6.4        |
|                                                      |            |                 |            | 100     | 0         | 20.15                   | 23.47              | 30               | -6.53       |

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| Antenna gain (dBi)                                 |            | 3.73            |            |         |           |                         |                    |                   |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 71_Uplink frequency band : 663 to 698 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                  | 133147     | 665.5           | QPSK       | 1       | 0         | 23.45                   | 27.18              | 25.03             | 34.77           | -9.74       |
|                                                    |            |                 |            | 1       | 24        | 23.30                   | 27.03              | 24.88             | 34.77           | -9.89       |
|                                                    |            |                 |            | 12      | 6         | 22.53                   | 26.26              | 24.11             | 34.77           | -10.66      |
|                                                    |            |                 |            | 25      | 0         | 22.55                   | 26.28              | 24.13             | 34.77           | -10.64      |
|                                                    | 133297     | 680.5           | QPSK       | 1       | 0         | 22.42                   | 26.15              | 24.00             | 34.77           | -10.77      |
|                                                    |            |                 |            | 1       | 24        | 23.18                   | 26.91              | 24.76             | 34.77           | -10.01      |
|                                                    |            |                 |            | 12      | 6         | 22.41                   | 26.14              | 23.99             | 34.77           | -10.78      |
|                                                    |            |                 |            | 25      | 0         | 22.34                   | 26.07              | 23.92             | 34.77           | -10.85      |
|                                                    | 133447     | 695.5           | QPSK       | 1       | 0         | 23.00                   | 26.73              | 24.58             | 34.77           | -10.19      |
|                                                    |            |                 |            | 1       | 24        | 23.18                   | 26.91              | 24.76             | 34.77           | -10.01      |
|                                                    |            |                 |            | 12      | 6         | 22.36                   | 26.09              | 23.94             | 34.77           | -10.83      |
|                                                    |            |                 |            | 25      | 0         | 22.29                   | 26.02              | 23.87             | 34.77           | -10.90      |
| 5                                                  | 133147     | 665.5           | 16QAM      | 1       | 0         | 22.14                   | 25.87              | 23.72             | 34.77           | -11.05      |
|                                                    |            |                 |            | 1       | 24        | 22.46                   | 26.19              | 24.04             | 34.77           | -10.73      |
|                                                    |            |                 |            | 12      | 6         | 21.54                   | 25.27              | 23.12             | 34.77           | -11.65      |
|                                                    |            |                 |            | 25      | 0         | 21.54                   | 25.27              | 23.12             | 34.77           | -11.65      |
|                                                    | 133297     | 680.5           | 16QAM      | 1       | 0         | 22.32                   | 26.05              | 23.90             | 34.77           | -10.87      |
|                                                    |            |                 |            | 1       | 24        | 22.38                   | 26.11              | 23.96             | 34.77           | -10.81      |
|                                                    |            |                 |            | 12      | 6         | 21.48                   | 25.21              | 23.06             | 34.77           | -11.71      |
|                                                    |            |                 |            | 25      | 0         | 21.43                   | 25.16              | 23.01             | 34.77           | -11.76      |
|                                                    | 133447     | 695.5           | 16QAM      | 1       | 0         | 22.31                   | 26.04              | 23.89             | 34.77           | -10.88      |
|                                                    |            |                 |            | 1       | 24        | 22.42                   | 26.15              | 24.00             | 34.77           | -10.77      |
|                                                    |            |                 |            | 12      | 6         | 21.39                   | 25.12              | 22.97             | 34.77           | -11.80      |
|                                                    |            |                 |            | 25      | 0         | 21.40                   | 25.13              | 22.98             | 34.77           | -11.79      |
| 5                                                  | 133147     | 665.5           | 64QAM      | 1       | 0         | 20.83                   | 24.56              | 22.41             | 34.77           | -12.36      |
|                                                    |            |                 |            | 1       | 24        | 20.88                   | 24.61              | 22.46             | 34.77           | -12.31      |
|                                                    |            |                 |            | 12      | 6         | 20.55                   | 24.28              | 22.13             | 34.77           | -12.64      |
|                                                    |            |                 |            | 25      | 0         | 20.53                   | 24.26              | 22.11             | 34.77           | -12.66      |
|                                                    | 133297     | 680.5           | 64QAM      | 1       | 0         | 21.23                   | 24.96              | 22.81             | 34.77           | -11.96      |
|                                                    |            |                 |            | 1       | 24        | 21.41                   | 25.14              | 22.99             | 34.77           | -11.78      |
|                                                    |            |                 |            | 12      | 6         | 20.45                   | 24.18              | 22.03             | 34.77           | -12.74      |
|                                                    |            |                 |            | 25      | 0         | 20.39                   | 24.12              | 21.97             | 34.77           | -12.80      |
|                                                    | 133447     | 695.5           | 64QAM      | 1       | 0         | 21.30                   | 25.03              | 22.88             | 34.77           | -11.89      |
|                                                    |            |                 |            | 1       | 24        | 21.00                   | 24.73              | 22.58             | 34.77           | -12.19      |
|                                                    |            |                 |            | 12      | 6         | 20.44                   | 24.17              | 22.02             | 34.77           | -12.75      |
|                                                    |            |                 |            | 25      | 0         | 20.38                   | 24.11              | 21.96             | 34.77           | -12.81      |

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| Antenna gain (dBi)                                 |            | 3.73            |            |         |           |                         |                    |                   |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 71_Uplink frequency band : 663 to 698 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                 | 133172     | 668             | QPSK       | 1       | 0         | 23.51                   | 27.24              | 25.09             | 34.77           | -9.68       |
|                                                    |            |                 |            | 1       | 49        | 23.29                   | 27.02              | 24.87             | 34.77           | -9.90       |
|                                                    |            |                 |            | 25      | 12        | 22.58                   | 26.31              | 24.16             | 34.77           | -10.61      |
|                                                    |            |                 |            | 50      | 0         | 22.51                   | 26.24              | 24.09             | 34.77           | -10.68      |
|                                                    | 133297     | 680.5           | QPSK       | 1       | 0         | 23.21                   | 26.94              | 24.79             | 34.77           | -9.98       |
|                                                    |            |                 |            | 1       | 49        | 23.26                   | 26.99              | 24.84             | 34.77           | -9.93       |
|                                                    |            |                 |            | 25      | 12        | 22.41                   | 26.14              | 23.99             | 34.77           | -10.78      |
|                                                    |            |                 |            | 50      | 0         | 22.31                   | 26.04              | 23.89             | 34.77           | -10.88      |
|                                                    | 133422     | 693             | QPSK       | 1       | 0         | 23.10                   | 26.83              | 24.68             | 34.77           | -10.09      |
|                                                    |            |                 |            | 1       | 49        | 22.82                   | 26.55              | 24.40             | 34.77           | -10.37      |
|                                                    |            |                 |            | 25      | 12        | 22.26                   | 25.99              | 23.84             | 34.77           | -10.93      |
|                                                    |            |                 |            | 50      | 0         | 22.34                   | 26.07              | 23.92             | 34.77           | -10.85      |
| 10                                                 | 133172     | 668             | 16QAM      | 1       | 0         | 22.66                   | 26.39              | 24.24             | 34.77           | -10.53      |
|                                                    |            |                 |            | 1       | 49        | 22.77                   | 26.50              | 24.35             | 34.77           | -10.42      |
|                                                    |            |                 |            | 25      | 12        | 21.60                   | 25.33              | 23.18             | 34.77           | -11.59      |
|                                                    |            |                 |            | 50      | 0         | 21.50                   | 25.23              | 23.08             | 34.77           | -11.69      |
|                                                    | 133297     | 680.5           | 16QAM      | 1       | 0         | 22.09                   | 25.82              | 23.67             | 34.77           | -11.10      |
|                                                    |            |                 |            | 1       | 49        | 22.28                   | 26.01              | 23.86             | 34.77           | -10.91      |
|                                                    |            |                 |            | 25      | 12        | 21.49                   | 25.22              | 23.07             | 34.77           | -11.70      |
|                                                    |            |                 |            | 50      | 0         | 21.44                   | 25.17              | 23.02             | 34.77           | -11.75      |
|                                                    | 133422     | 693             | 16QAM      | 1       | 0         | 22.39                   | 26.12              | 23.97             | 34.77           | -10.80      |
|                                                    |            |                 |            | 1       | 49        | 22.07                   | 25.80              | 23.65             | 34.77           | -11.12      |
|                                                    |            |                 |            | 25      | 12        | 21.38                   | 25.11              | 22.96             | 34.77           | -11.81      |
|                                                    |            |                 |            | 50      | 0         | 21.30                   | 25.03              | 22.88             | 34.77           | -11.89      |
| 10                                                 | 133172     | 668             | 64QAM      | 1       | 0         | 21.80                   | 25.53              | 23.38             | 34.77           | -11.39      |
|                                                    |            |                 |            | 1       | 49        | 21.45                   | 25.18              | 23.03             | 34.77           | -11.74      |
|                                                    |            |                 |            | 25      | 12        | 20.60                   | 24.33              | 22.18             | 34.77           | -12.59      |
|                                                    |            |                 |            | 50      | 0         | 20.53                   | 24.26              | 22.11             | 34.77           | -12.66      |
|                                                    | 133297     | 680.5           | 64QAM      | 1       | 0         | 21.67                   | 25.40              | 23.25             | 34.77           | -11.52      |
|                                                    |            |                 |            | 1       | 49        | 21.78                   | 25.51              | 23.36             | 34.77           | -11.41      |
|                                                    |            |                 |            | 25      | 12        | 20.39                   | 24.12              | 21.97             | 34.77           | -12.80      |
|                                                    |            |                 |            | 50      | 0         | 20.35                   | 24.08              | 21.93             | 34.77           | -12.84      |
|                                                    | 133422     | 693             | 64QAM      | 1       | 0         | 21.21                   | 24.94              | 22.79             | 34.77           | -11.98      |
|                                                    |            |                 |            | 1       | 49        | 21.54                   | 25.27              | 23.12             | 34.77           | -11.65      |
|                                                    |            |                 |            | 25      | 12        | 20.40                   | 24.13              | 21.98             | 34.77           | -12.79      |
|                                                    |            |                 |            | 50      | 0         | 20.30                   | 24.03              | 21.88             | 34.77           | -12.89      |

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| Antenna gain (dBi)                                 |            | 3.73            |            |         |           |                         |                    |                   |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 71_Uplink frequency band : 663 to 698 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 15                                                 | 133197     | 670.5           | QPSK       | 1       | 0         | 23.34                   | 27.07              | 24.92             | 34.77           | -9.85       |
|                                                    |            |                 |            | 1       | 74        | 23.34                   | 27.07              | 24.92             | 34.77           | -9.85       |
|                                                    |            |                 |            | 36      | 18        | 22.52                   | 26.25              | 24.10             | 34.77           | -10.67      |
|                                                    |            |                 |            | 75      | 0         | 22.48                   | 26.21              | 24.06             | 34.77           | -10.71      |
|                                                    | 133297     | 680.5           | QPSK       | 1       | 0         | 23.18                   | 26.91              | 24.76             | 34.77           | -10.01      |
|                                                    |            |                 |            | 1       | 74        | 23.05                   | 26.78              | 24.63             | 34.77           | -10.14      |
|                                                    |            |                 |            | 36      | 18        | 22.40                   | 26.13              | 23.98             | 34.77           | -10.79      |
|                                                    |            |                 |            | 75      | 0         | 22.32                   | 26.05              | 23.90             | 34.77           | -10.87      |
|                                                    | 133397     | 690.5           | QPSK       | 1       | 0         | 23.29                   | 27.02              | 24.87             | 34.77           | -9.90       |
|                                                    |            |                 |            | 1       | 74        | 23.25                   | 26.98              | 24.83             | 34.77           | -9.94       |
|                                                    |            |                 |            | 36      | 18        | 22.32                   | 26.05              | 23.90             | 34.77           | -10.87      |
|                                                    |            |                 |            | 75      | 0         | 22.40                   | 26.13              | 23.98             | 34.77           | -10.79      |
| 15                                                 | 133197     | 670.5           | 16QAM      | 1       | 0         | 22.57                   | 26.30              | 24.15             | 34.77           | -10.62      |
|                                                    |            |                 |            | 1       | 74        | 22.23                   | 25.96              | 23.81             | 34.77           | -10.96      |
|                                                    |            |                 |            | 36      | 18        | 21.57                   | 25.30              | 23.15             | 34.77           | -11.62      |
|                                                    |            |                 |            | 75      | 0         | 21.48                   | 25.21              | 23.06             | 34.77           | -11.71      |
|                                                    | 133297     | 680.5           | 16QAM      | 1       | 0         | 22.33                   | 26.06              | 23.91             | 34.77           | -10.86      |
|                                                    |            |                 |            | 1       | 74        | 22.41                   | 26.14              | 23.99             | 34.77           | -10.78      |
|                                                    |            |                 |            | 36      | 18        | 21.53                   | 25.26              | 23.11             | 34.77           | -11.66      |
|                                                    |            |                 |            | 75      | 0         | 21.43                   | 25.16              | 23.01             | 34.77           | -11.76      |
|                                                    | 133397     | 690.5           | 16QAM      | 1       | 0         | 22.38                   | 26.11              | 23.96             | 34.77           | -10.81      |
|                                                    |            |                 |            | 1       | 74        | 22.64                   | 26.37              | 24.22             | 34.77           | -10.55      |
|                                                    |            |                 |            | 36      | 18        | 21.37                   | 25.10              | 22.95             | 34.77           | -11.82      |
|                                                    |            |                 |            | 75      | 0         | 21.38                   | 25.11              | 22.96             | 34.77           | -11.81      |
| 15                                                 | 133197     | 670.5           | 64QAM      | 1       | 0         | 21.27                   | 25.00              | 22.85             | 34.77           | -11.92      |
|                                                    |            |                 |            | 1       | 74        | 21.64                   | 25.37              | 23.22             | 34.77           | -11.55      |
|                                                    |            |                 |            | 36      | 18        | 20.35                   | 24.08              | 21.93             | 34.77           | -12.84      |
|                                                    |            |                 |            | 75      | 0         | 20.61                   | 24.34              | 22.19             | 34.77           | -12.58      |
|                                                    | 133297     | 680.5           | 64QAM      | 1       | 0         | 21.32                   | 25.05              | 22.90             | 34.77           | -11.87      |
|                                                    |            |                 |            | 1       | 74        | 20.95                   | 24.68              | 22.53             | 34.77           | -12.24      |
|                                                    |            |                 |            | 36      | 18        | 20.46                   | 24.19              | 22.04             | 34.77           | -12.73      |
|                                                    |            |                 |            | 75      | 0         | 20.44                   | 24.17              | 22.02             | 34.77           | -12.75      |
|                                                    | 133397     | 690.5           | 64QAM      | 1       | 0         | 21.43                   | 25.16              | 23.01             | 34.77           | -11.76      |
|                                                    |            |                 |            | 1       | 74        | 21.33                   | 25.06              | 22.91             | 34.77           | -11.86      |
|                                                    |            |                 |            | 36      | 18        | 20.31                   | 24.04              | 21.89             | 34.77           | -12.88      |
|                                                    |            |                 |            | 75      | 0         | 20.39                   | 24.12              | 21.97             | 34.77           | -12.80      |

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| Antenna gain (dBi)                                 |            | 3.73            |            |         |           |                         |                    |                   |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|-------------------|-----------------|-------------|
| LTE Band 71_Uplink frequency band : 663 to 698 MHz |            |                 |            |         |           |                         |                    |                   |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | ERP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 20                                                 | 133222     | 673             | QPSK       | 1       | 0         | 23.55                   | 27.28              | 25.13             | 34.77           | -9.64       |
|                                                    |            |                 |            | 1       | 99        | 23.34                   | 27.07              | 24.92             | 34.77           | -9.85       |
|                                                    |            |                 |            | 50      | 25        | 22.52                   | 26.25              | 24.10             | 34.77           | -10.67      |
|                                                    |            |                 |            | 100     | 0         | 22.47                   | 26.20              | 24.05             | 34.77           | -10.72      |
|                                                    | 133297     | 680.5           | QPSK       | 1       | 0         | 23.38                   | 27.11              | 24.96             | 34.77           | -9.81       |
|                                                    |            |                 |            | 1       | 99        | 23.12                   | 26.85              | 24.70             | 34.77           | -10.07      |
|                                                    |            |                 |            | 50      | 25        | 22.39                   | 26.12              | 23.97             | 34.77           | -10.80      |
|                                                    |            |                 |            | 100     | 0         | 22.29                   | 26.02              | 23.87             | 34.77           | -10.90      |
|                                                    | 133372     | 688             | QPSK       | 1       | 0         | 23.28                   | 27.01              | 24.86             | 34.77           | -9.91       |
|                                                    |            |                 |            | 1       | 99        | 23.19                   | 26.92              | 24.77             | 34.77           | -10.00      |
|                                                    |            |                 |            | 50      | 25        | 22.45                   | 26.18              | 24.03             | 34.77           | -10.74      |
|                                                    |            |                 |            | 100     | 0         | 22.30                   | 26.03              | 23.88             | 34.77           | -10.89      |
| 20                                                 | 133222     | 673             | 16QAM      | 1       | 0         | 21.79                   | 25.52              | 23.37             | 34.77           | -11.40      |
|                                                    |            |                 |            | 1       | 99        | 22.11                   | 25.84              | 23.69             | 34.77           | -11.08      |
|                                                    |            |                 |            | 50      | 25        | 21.55                   | 25.28              | 23.13             | 34.77           | -11.64      |
|                                                    |            |                 |            | 100     | 0         | 21.53                   | 25.26              | 23.11             | 34.77           | -11.66      |
|                                                    | 133297     | 680.5           | 16QAM      | 1       | 0         | 22.28                   | 26.01              | 23.86             | 34.77           | -10.91      |
|                                                    |            |                 |            | 1       | 99        | 22.08                   | 25.81              | 23.66             | 34.77           | -11.11      |
|                                                    |            |                 |            | 50      | 25        | 21.50                   | 25.23              | 23.08             | 34.77           | -11.69      |
|                                                    |            |                 |            | 100     | 0         | 21.35                   | 25.08              | 22.93             | 34.77           | -11.84      |
|                                                    | 133372     | 688             | 16QAM      | 1       | 0         | 22.52                   | 26.25              | 24.10             | 34.77           | -10.67      |
|                                                    |            |                 |            | 1       | 99        | 22.27                   | 26.00              | 23.85             | 34.77           | -10.92      |
|                                                    |            |                 |            | 50      | 25        | 21.40                   | 25.13              | 22.98             | 34.77           | -11.79      |
|                                                    |            |                 |            | 100     | 0         | 21.29                   | 25.02              | 22.87             | 34.77           | -11.90      |
| 20                                                 | 133222     | 673             | 64QAM      | 1       | 0         | 21.30                   | 25.03              | 22.88             | 34.77           | -11.89      |
|                                                    |            |                 |            | 1       | 99        | 21.40                   | 25.13              | 22.98             | 34.77           | -11.79      |
|                                                    |            |                 |            | 50      | 25        | 20.51                   | 24.24              | 22.09             | 34.77           | -12.68      |
|                                                    |            |                 |            | 100     | 0         | 20.61                   | 24.34              | 22.19             | 34.77           | -12.58      |
|                                                    | 133297     | 680.5           | 64QAM      | 1       | 0         | 20.97                   | 24.70              | 22.55             | 34.77           | -12.22      |
|                                                    |            |                 |            | 1       | 99        | 21.09                   | 24.82              | 22.67             | 34.77           | -12.10      |
|                                                    |            |                 |            | 50      | 25        | 20.44                   | 24.17              | 22.02             | 34.77           | -12.75      |
|                                                    |            |                 |            | 100     | 0         | 20.34                   | 24.07              | 21.92             | 34.77           | -12.85      |
|                                                    | 133372     | 688             | 64QAM      | 1       | 0         | 21.05                   | 24.78              | 22.63             | 34.77           | -12.14      |
|                                                    |            |                 |            | 1       | 99        | 21.16                   | 24.89              | 22.74             | 34.77           | -12.03      |
|                                                    |            |                 |            | 50      | 25        | 20.40                   | 24.13              | 21.98             | 34.77           | -12.79      |
|                                                    |            |                 |            | 100     | 0         | 20.40                   | 24.13              | 21.98             | 34.77           | -12.79      |

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## 2 OCCUPIED BANDWIDTH MEASUREMENT

| LTE BAND 2 Channel bandwidth: 1.4MHz |       |               |               |               |                |              |              |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                      |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1850.7                               | 18607 | 1.0845        | 1.0853        | 1.0878        | 1.222          | <b>1.223</b> | <b>1.224</b> |
| 1880.0                               | 18900 | <b>1.0871</b> | 1.0877        | 1.0874        | 1.222          | <b>1.223</b> | 1.217        |
| 1909.3                               | 19193 | 1.0850        | <b>1.0900</b> | <b>1.0902</b> | <b>1.229</b>   | 1.222        | 1.217        |

| LTE BAND 2 Channel bandwidth: 3MHz |       |               |               |               |                |              |              |
|------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                    |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1851.5                             | 18615 | 2.6823        | 2.6898        | 2.6871        | 2.952          | <b>2.981</b> | 2.951        |
| 1880.0                             | 18900 | 2.6861        | 2.6883        | 2.6860        | 2.954          | 2.979        | 2.935        |
| 1908.5                             | 19185 | <b>2.6926</b> | <b>2.6953</b> | <b>2.6898</b> | <b>2.957</b>   | 2.958        | <b>2.960</b> |

| LTE BAND 2 Channel bandwidth: 5MHz |       |               |               |               |                |              |              |
|------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                    |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1852.5                             | 18625 | 4.4855        | <b>4.4969</b> | 4.4907        | 4.945          | 4.910        | 4.928        |
| 1880.0                             | 18900 | 4.4925        | 4.4772        | <b>4.4941</b> | <b>4.948</b>   | <b>4.919</b> | 4.948        |
| 1907.5                             | 19175 | <b>4.4959</b> | 4.4906        | 4.4917        | 4.939          | 4.902        | <b>4.950</b> |

| LTE BAND 2 Channel bandwidth: 10MHz |       |               |               |               |                |              |              |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1855.0                              | 18650 | <b>8.9649</b> | <b>8.9709</b> | 8.9631        | <b>9.765</b>   | 9.693        | 9.700        |
| 1880.0                              | 18900 | 8.9602        | 8.9696        | 8.9452        | 9.761          | 9.725        | 9.679        |
| 1905.0                              | 19150 | 8.9541        | 8.9472        | <b>8.9704</b> | 9.749          | <b>9.758</b> | <b>9.799</b> |

| LTE BAND 2 Channel bandwidth: 15MHz |       |                |                |                |                |               |               |
|-------------------------------------|-------|----------------|----------------|----------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |               |               |
|                                     |       | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM         | 64QAM         |
| 1857.5                              | 18675 | 13.4260        | 13.4330        | 13.4440        | 14.490         | 14.530        | 14.560        |
| 1880.0                              | 18900 | <b>13.4580</b> | 13.4330        | <b>13.4700</b> | 14.510         | <b>14.680</b> | <b>14.660</b> |
| 1902.5                              | 19125 | 13.4260        | <b>13.4380</b> | 13.4350        | <b>14.550</b>  | 14.580        | 14.640        |

| LTE BAND 2 Channel bandwidth: 20MHz |       |                |                |                |                |               |               |
|-------------------------------------|-------|----------------|----------------|----------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |               |               |
|                                     |       | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM         | 64QAM         |
| 1860.0                              | 18700 | 17.8880        | 17.8860        | 17.8950        | 19.330         | 19.290        | <b>20.470</b> |
| 1880.0                              | 18900 | <b>17.8980</b> | 17.8870        | <b>17.9310</b> | 19.290         | <b>19.460</b> | 20.180        |
| 1900.0                              | 19100 | 17.8470        | <b>17.9030</b> | 17.9140        | <b>19.380</b>  | 19.230        | 19.400        |

| LTE BAND 4 Channel bandwidth: 1.4MHz |       |               |               |               |                |              |              |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                      |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1710.7                               | 19957 | 1.0852        | 1.0872        | <b>1.0897</b> | 1.223          | 1.218        | 1.219        |
| 1732.5                               | 20175 | 1.0811        | <b>1.0896</b> | 1.0864        | 1.222          | <b>1.230</b> | 1.222        |
| 1754.3                               | 20393 | <b>1.0882</b> | 1.0878        | 1.0845        | <b>1.231</b>   | 1.228        | <b>1.225</b> |

| LTE BAND 4 Channel bandwidth: 3MHz |       |               |               |               |                |              |              |
|------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                    |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1711.5                             | 19965 | <b>2.7009</b> | 2.6925        | 2.6954        | <b>2.978</b>   | <b>3.003</b> | <b>2.977</b> |
| 1732.5                             | 20175 | 2.6919        | 2.6981        | 2.6955        | 2.977          | 2.985        | 2.971        |
| 1753.5                             | 20385 | 2.6878        | <b>2.6989</b> | <b>2.6965</b> | 2.961          | 2.998        | 2.967        |

| LTE BAND 4 Channel bandwidth: 5MHz |       |               |               |               |                |              |              |
|------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                    |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1712.5                             | 19975 | 4.4987        | 4.4898        | <b>4.4927</b> | 4.896          | 4.903        | 4.890        |
| 1732.5                             | 20175 | 4.4887        | <b>4.4948</b> | 4.4806        | <b>4.941</b>   | <b>4.954</b> | <b>4.927</b> |
| 1752.5                             | 20375 | <b>4.5053</b> | 4.4892        | 4.4837        | 4.932          | 4.932        | 4.918        |

| LTE BAND 4 Channel bandwidth: 10MHz |       |               |               |               |                |              |              |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1715.0                              | 20000 | <b>8.9700</b> | <b>8.9647</b> | 8.9709        | 9.825          | <b>9.757</b> | 9.639        |
| 1732.5                              | 20175 | 8.9572        | 8.9512        | 8.9560        | 9.742          | 9.749        | <b>9.728</b> |
| 1750.0                              | 20350 | 8.9663        | 8.9546        | <b>8.9717</b> | <b>9.829</b>   | 9.678        | 9.715        |

| LTE BAND 4 Channel bandwidth: 15MHz |       |                |                |                |                |               |               |
|-------------------------------------|-------|----------------|----------------|----------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |               |               |
|                                     |       | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM         | 64QAM         |
| 1717.5                              | 20025 | 13.4520        | <b>13.4750</b> | <b>13.4420</b> | 14.500         | 14.560        | <b>14.570</b> |
| 1732.5                              | 20175 | 13.4200        | 13.4050        | 13.4320        | <b>14.530</b>  | 14.600        | 14.480        |
| 1747.5                              | 20325 | <b>13.4990</b> | <b>13.4750</b> | 13.4360        | 14.490         | <b>15.840</b> | 14.530        |

| LTE BAND 4 Channel bandwidth: 20MHz |       |                |                |                |                |               |               |
|-------------------------------------|-------|----------------|----------------|----------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |               |               |
|                                     |       | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM         | 64QAM         |
| 1720.0                              | 20050 | 17.8950        | 17.9050        | 17.9000        | 19.240         | 19.270        | 19.220        |
| 1732.5                              | 20175 | <b>17.9310</b> | <b>17.9120</b> | 17.8660        | 19.290         | <b>19.400</b> | 19.270        |
| 1745.0                              | 20300 | 17.9230        | 17.9030        | <b>17.9360</b> | <b>19.430</b>  | 19.370        | <b>19.380</b> |

| LTE BAND 5 Channel bandwidth: 1.4MHz |       |               |               |               |                |              |              |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                      |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 824.7                                | 20407 | 1.0869        | <b>1.0871</b> | <b>1.0854</b> | 1.219          | 1.226        | 1.208        |
| 836.5                                | 20525 | 1.0849        | 1.0862        | 1.0845        | <b>1.232</b>   | 1.220        | 1.224        |
| 848.3                                | 20643 | <b>1.0870</b> | 1.0867        | <b>1.0854</b> | 1.218          | <b>1.230</b> | <b>1.231</b> |

| LTE BAND 5 Channel bandwidth: 3MHz |       |               |               |               |                |              |              |
|------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                    |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 825.5                              | 20415 | 2.6920        | 2.6871        | <b>2.6972</b> | 2.952          | 2.970        | 2.964        |
| 836.5                              | 20525 | 2.6826        | 2.6921        | 2.6968        | <b>2.983</b>   | 2.980        | <b>2.987</b> |
| 847.5                              | 20635 | <b>2.6942</b> | <b>2.6963</b> | 2.6867        | 2.970          | <b>2.986</b> | 2.978        |

| LTE BAND 5 Channel bandwidth: 5MHz |       |               |               |               |                |              |              |
|------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                    |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 826.5                              | 20425 | 4.4878        | <b>4.4936</b> | <b>4.4952</b> | 4.914          | <b>4.923</b> | <b>4.935</b> |
| 836.5                              | 20525 | <b>4.4988</b> | 4.4890        | 4.4924        | <b>4.951</b>   | 4.909        | 4.929        |
| 846.5                              | 20625 | 4.4882        | 4.4845        | 4.4889        | 4.932          | 4.908        | 4.920        |

| LTE BAND 5 Channel bandwidth: 10MHz |       |               |               |               |                |              |              |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 829.0                               | 20450 | 8.9719        | <b>8.9770</b> | <b>8.9743</b> | <b>9.802</b>   | <b>9.762</b> | 9.740        |
| 836.5                               | 20525 | 8.9663        | 8.9541        | 8.9632        | 9.690          | 9.730        | <b>9.778</b> |
| 844.0                               | 20600 | <b>8.9847</b> | 8.9618        | 8.9643        | 9.800          | 9.651        | 9.751        |

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| LTE BAND 12 Channel bandwidth: 1.4MHz |       |               |               |               |                |              |              |
|---------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                       |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 699.7                                 | 23017 | 1.0829        | 1.0865        | 1.0838        | 1.224          | <b>1.222</b> | 1.217        |
| 707.5                                 | 23095 | 1.0857        | <b>1.0892</b> | <b>1.0856</b> | <b>1.230</b>   | 1.221        | 1.223        |
| 715.3                                 | 23173 | <b>1.0865</b> | 1.0868        | 1.0825        | 1.221          | <b>1.222</b> | <b>1.227</b> |

| LTE BAND 12 Channel bandwidth: 5MHz |       |               |               |               |                |              |              |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 701.5                               | 23035 | <b>4.4941</b> | 4.4862        | 4.4838        | 4.917          | 4.915        | 4.896        |
| 707.5                               | 23095 | 4.4827        | 4.4818        | 4.4752        | 4.952          | <b>4.953</b> | 4.909        |
| 713.5                               | 23155 | 4.4932        | <b>4.4882</b> | <b>4.4953</b> | <b>4.980</b>   | 4.925        | <b>4.938</b> |

| LTE BAND 13 Channel bandwidth: 5MHz |       |               |               |               |                |              |              |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 779.5                               | 23205 | 4.4900        | 4.4778        | <b>4.5066</b> | <b>4.938</b>   | 4.897        | <b>4.919</b> |
| 782.0                               | 23230 | 4.4879        | 4.4730        | 4.4960        | 4.881          | 4.903        | 4.895        |
| 784.5                               | 23255 | <b>4.4955</b> | <b>4.4840</b> | 4.4936        | 4.908          | <b>4.918</b> | 4.918        |

| LTE BAND 66 Channel bandwidth: 1.4MHz |        |               |               |               |                |              |              |
|---------------------------------------|--------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                        | CH     | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                       |        | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1710.7                                | 131979 | 1.0872        | 1.0849        | 1.0861        | <b>1.224</b>   | <b>1.228</b> | 1.224        |
| 1745.0                                | 132322 | <b>1.0876</b> | 1.0828        | <b>1.0862</b> | 1.220          | 1.220        | <b>1.225</b> |
| 1779.3                                | 132665 | 1.0872        | <b>1.0879</b> | 1.0846        | 1.223          | 1.220        | 1.223        |

| LTE BAND 66 Channel bandwidth: 5MHz |        |               |               |               |                |              |              |
|-------------------------------------|--------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                      | CH     | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                     |        | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1712.5                              | 131997 | 4.4957        | 4.4855        | 4.4869        | 4.894          | 4.894        | <b>4.913</b> |
| 1745.0                              | 132322 | <b>4.5006</b> | <b>4.4947</b> | <b>4.4918</b> | 4.912          | 4.925        | 4.897        |
| 1777.5                              | 132647 | 4.4824        | 4.4748        | 4.4874        | <b>4.920</b>   | <b>4.946</b> | 4.911        |

| LTE BAND 66 Channel bandwidth: 15MHz |        |                |                |                |                |               |               |
|--------------------------------------|--------|----------------|----------------|----------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |               |               |
|                                      |        | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM         | 64QAM         |
| 1717.5                               | 132047 | 13.4270        | 13.4240        | <b>13.4590</b> | 14.490         | <b>14.570</b> | <b>14.670</b> |
| 1745.0                               | 132322 | 13.4310        | 13.4520        | <b>13.4590</b> | 14.570         | 14.490        | 14.590        |
| 1772.5                               | 132597 | <b>13.4570</b> | <b>13.4750</b> | 13.4440        | <b>14.800</b>  | <b>14.570</b> | 14.590        |

| LTE BAND 71 Channel bandwidth: 5MHz |        |               |               |               |                |              |              |
|-------------------------------------|--------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                      | CH     | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                     |        | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 665.5                               | 133147 | 4.4847        | 4.4881        | 4.4868        | 4.888          | 4.898        | 4.915        |
| 680.5                               | 133297 | <b>4.4856</b> | 4.4940        | <b>4.4941</b> | <b>4.916</b>   | <b>4.924</b> | <b>4.947</b> |
| 695.5                               | 133447 | 4.4833        | <b>4.4943</b> | 4.4860        | 4.913          | 4.909        | 4.910        |

| LTE BAND 71 Channel bandwidth: 15MHz |        |                |                |                |                |               |               |
|--------------------------------------|--------|----------------|----------------|----------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |               |               |
|                                      |        | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM         | 64QAM         |
| 670.5                                | 133197 | 13.4160        | 13.4070        | <b>13.4400</b> | 14.520         | 14.480        | 14.520        |
| 680.5                                | 133297 | <b>13.4290</b> | 13.4160        | 13.4210        | <b>16.380</b>  | <b>14.580</b> | <b>15.340</b> |
| 690.5                                | 133397 | <b>13.4290</b> | <b>13.4190</b> | 13.4260        | 14.630         | 14.490        | 14.550        |

| LTE BAND 12 Channel bandwidth: 3MHz |       |               |               |               |                |              |              |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 700.5                               | 23025 | 2.6916        | 2.6924        | <b>2.6976</b> | <b>2.992</b>   | 2.969        | <b>2.992</b> |
| 707.5                               | 23095 | <b>2.6954</b> | <b>2.6960</b> | 2.6889        | 2.985          | 2.957        | 2.955        |
| 714.5                               | 23165 | 2.6891        | 2.6894        | 2.6973        | 2.976          | <b>2.982</b> | 2.972        |

| LTE BAND 12 Channel bandwidth: 10MHz |       |               |               |               |                |              |              |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                      |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 704.0                                | 23060 | 8.9469        | 8.9384        | 8.9475        | 9.699          | 9.719        | 9.689        |
| 707.5                                | 23095 | <b>8.9545</b> | 8.9284        | 8.9400        | <b>9.783</b>   | 9.704        | 9.659        |
| 711.0                                | 23130 | 8.9510        | <b>8.9494</b> | <b>8.9662</b> | 9.726          | <b>9.768</b> | <b>9.795</b> |

| LTE BAND 13 Channel bandwidth: 10MHz |       |               |               |               |                |              |              |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                      |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 782.0                                | 23230 | <b>8.9670</b> | <b>8.9557</b> | <b>8.9479</b> | <b>9.656</b>   | <b>9.788</b> | <b>9.724</b> |

| LTE BAND 66 Channel bandwidth: 3MHz |        |               |               |               |                |              |              |
|-------------------------------------|--------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                      | CH     | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                     |        | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1711.5                              | 131987 | <b>2.6950</b> | 2.6941        | 2.6889        | 2.974          | 2.976        | <b>2.989</b> |
| 1745.0                              | 132322 | 2.6891        | <b>2.6952</b> | 2.6929        | 2.947          | <b>2.982</b> | 2.958        |
| 1778.5                              | 132657 | 2.6892        | 2.6920        | <b>2.6962</b> | <b>2.994</b>   | 2.966        | 2.957        |

| LTE BAND 66 Channel bandwidth: 10MHz |        |               |               |               |                |              |              |
|--------------------------------------|--------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                      |        | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 1715.0                               | 132022 | 8.9537        | 8.9596        | 8.9676        | 9.754          | <b>9.750</b> | 9.714        |
| 1745.0                               | 132322 | 8.9654        | <b>8.9624</b> | <b>8.9711</b> | <b>9.818</b>   | 9.706        | 9.736        |
| 1775.0                               | 132622 | <b>8.9827</b> | 8.9403        | 8.9600        | 9.764          | 9.727        | <b>9.765</b> |

| LTE BAND 66 Channel bandwidth: 20MHz |        |                |                |                |                |               |               |
|--------------------------------------|--------|----------------|----------------|----------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |               |               |
|                                      |        | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM         | 64QAM         |
| 1720.0                               | 132072 | 17.9130        | 17.8700        | <b>17.9390</b> | 19.290         | 19.210        | 19.290        |
| 1745.0                               | 132322 | 17.9130        | <b>17.9260</b> | 17.9380        | 19.270         | 19.270        | <b>19.350</b> |
| 1770.0                               | 132572 | <b>17.9440</b> | 17.9150        | 17.9260        | <b>19.340</b>  | <b>19.340</b> | 19.240        |

| LTE BAND 71 Channel bandwidth: 10MHz |        |               |               |               |                |              |              |
|--------------------------------------|--------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |              |              |
|                                      |        | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM        | 64QAM        |
| 668.0                                | 133172 | 8.9457        | <b>8.9585</b> | 8.9458        | <b>9.785</b>   | 9.766        | <b>9.723</b> |
| 680.5                                | 133297 | 8.9713        | 8.9542        | <b>8.9534</b> | 9.743          | 9.668        | 9.698        |
| 693.0                                | 133422 | <b>8.9734</b> | 8.9552        | 8.9505        | 9.729          | <b>9.771</b> | <b>9.723</b> |

| LTE BAND 71 Channel bandwidth: 20MHz |        |                |                |                |                |               |               |
|--------------------------------------|--------|----------------|----------------|----------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |               |               |
|                                      |        | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM         | 64QAM         |
| 673.0                                | 133222 | 17.8680        | 17.9040        | 17.8900        | 19.190         | <b>19.400</b> | <b>19.360</b> |
| 680.5                                | 133297 | 17.8520        | 17.8840        | 17.8840        | <b>19.510</b>  | 19.260        | 19.270        |
| 688.0                                | 133372 | <b>17.8770</b> | <b>17.9370</b> | <b>17.9130</b> | 19.320         | 19.230        | 19.330        |

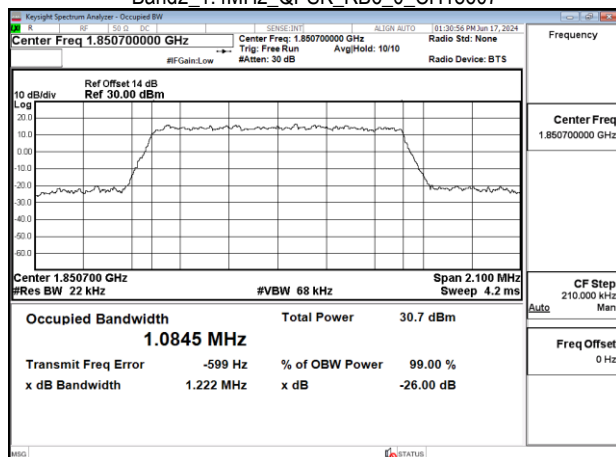
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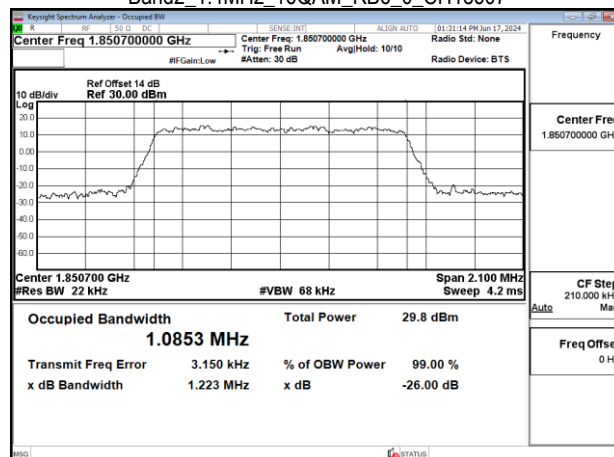
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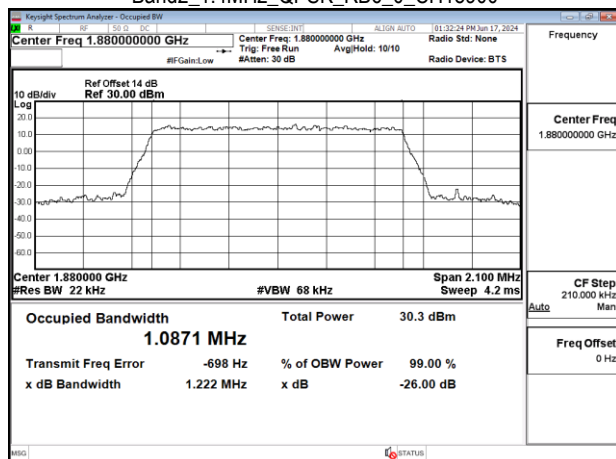
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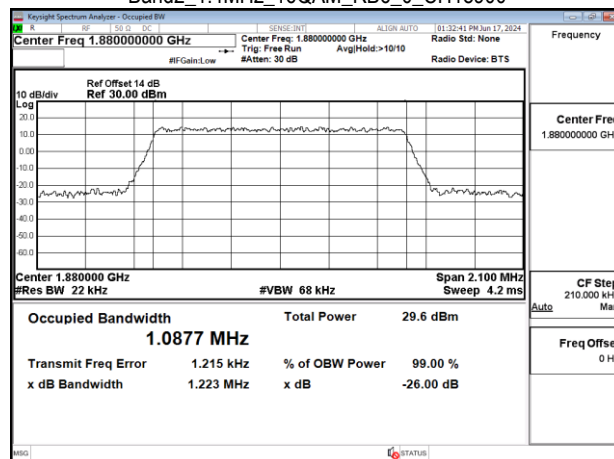
Band2\_1.4MHz\_16QAM\_RB6\_0\_CH18607



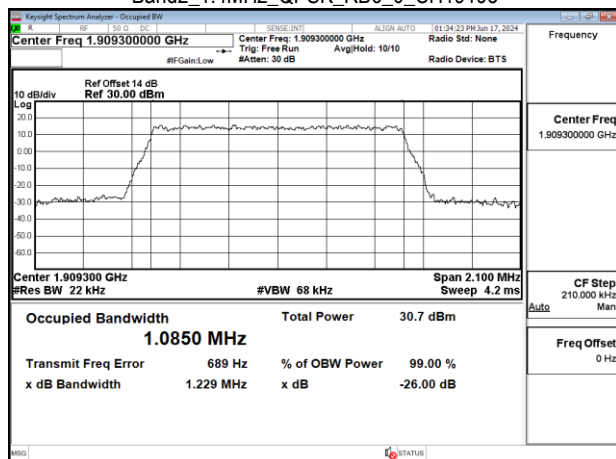
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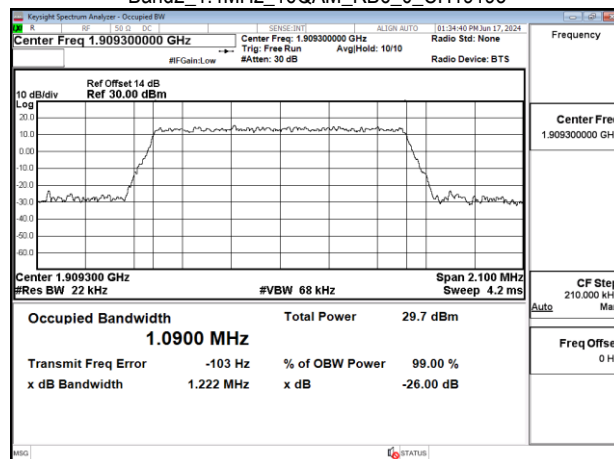
Band2\_1.4MHz\_16QAM\_RB6\_0\_CH18900



Band2\_1.4MHz\_QPSK\_RB6\_0\_CH19193



Band2\_1.4MHz\_16QAM\_RB6\_0\_CH19193



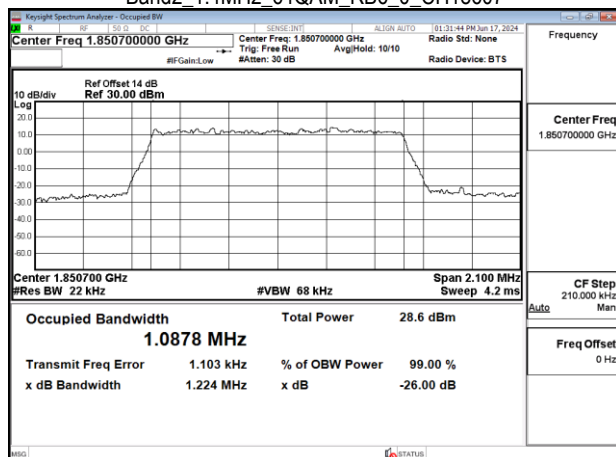
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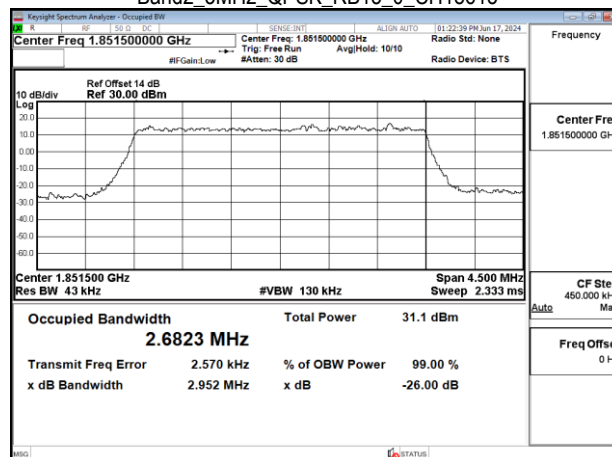
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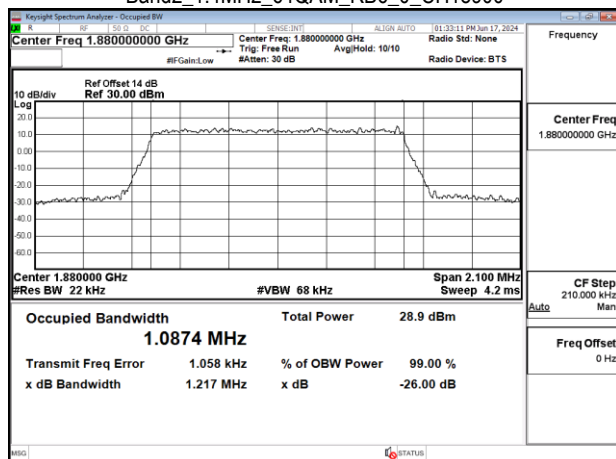
Band2\_1.4MHz\_64QAM\_RB6\_0\_CH18607



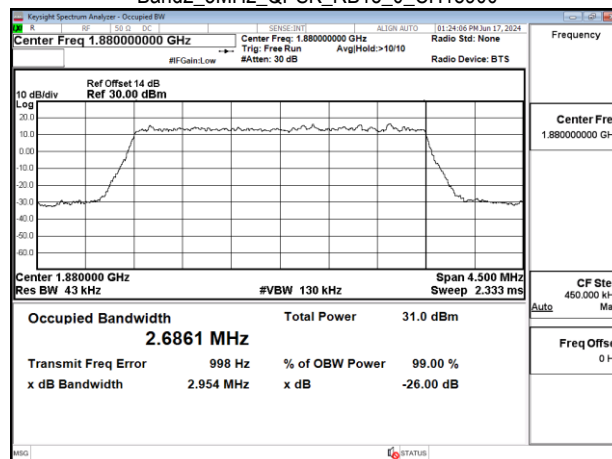
Band2\_3MHz\_QPSK\_RB15\_0\_CH18615



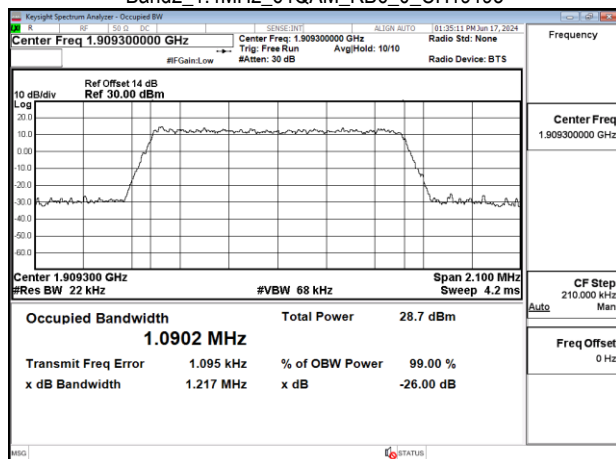
Band2\_1.4MHz\_64QAM\_RB6\_0\_CH18900



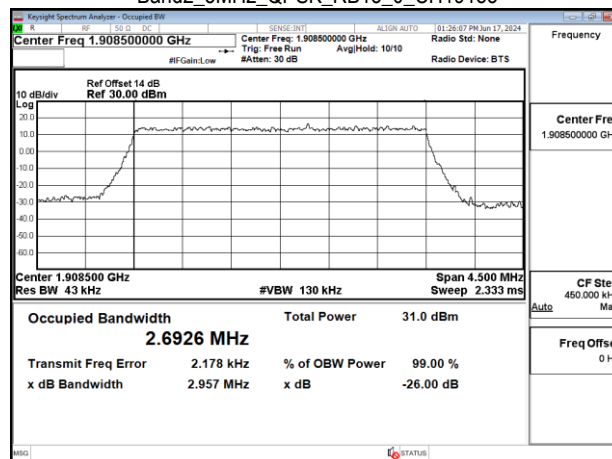
Band2\_3MHz\_QPSK\_RB15\_0\_CH18900



Band2\_1.4MHz\_64QAM\_RB6\_0\_CH19193



Band2\_3MHz\_QPSK\_RB15\_0\_CH19185

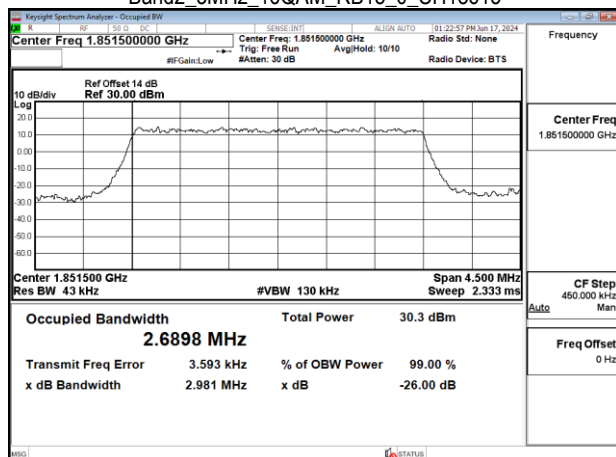


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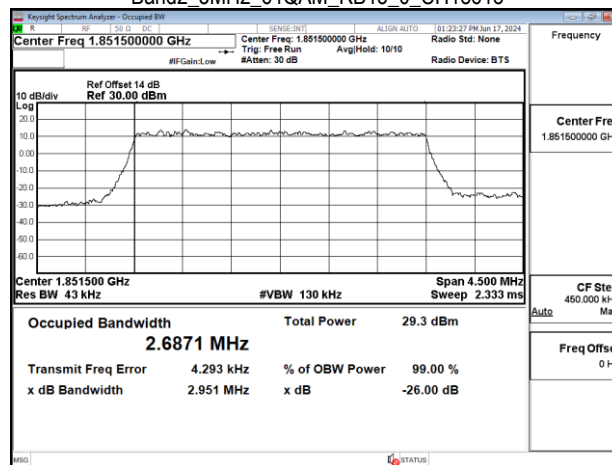
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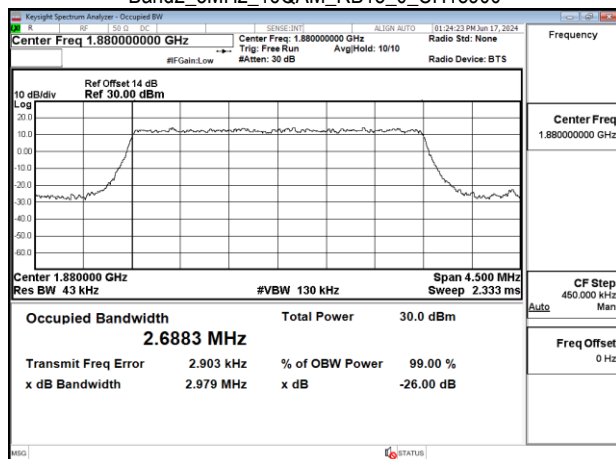
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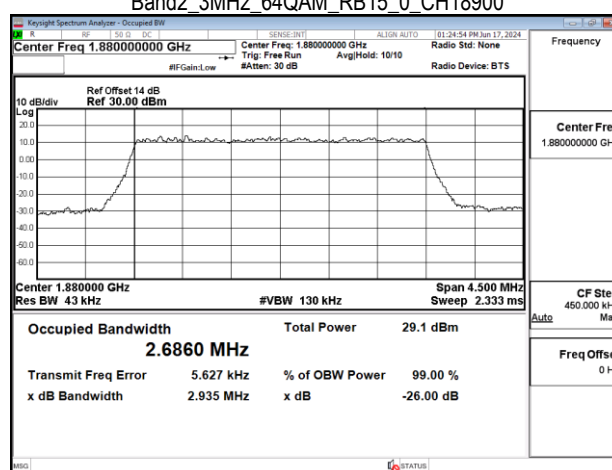
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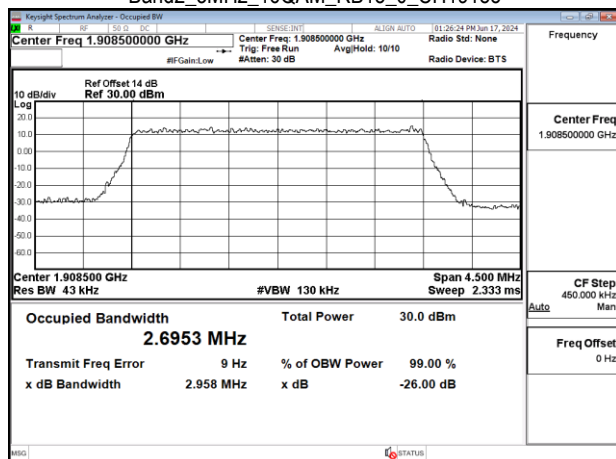
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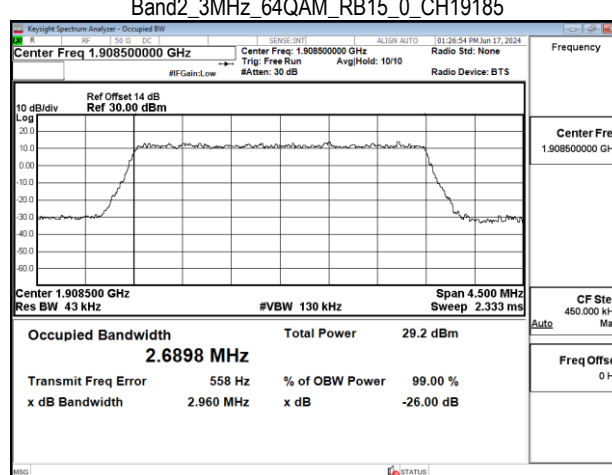
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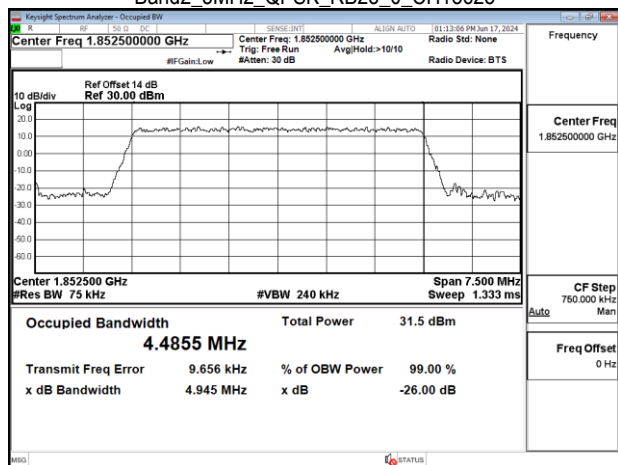


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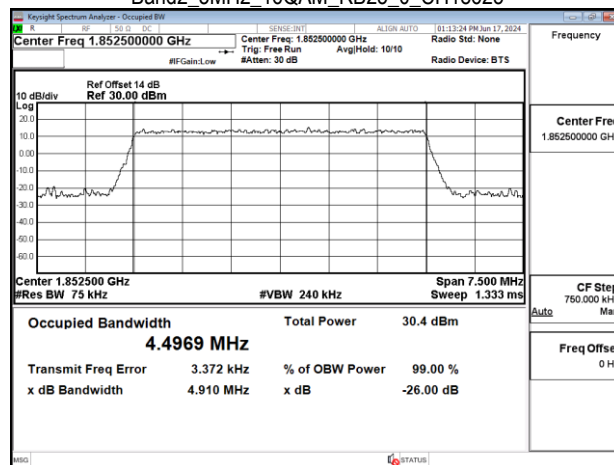
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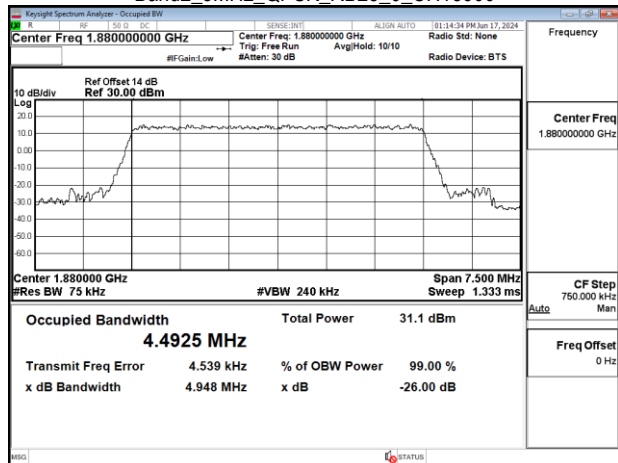
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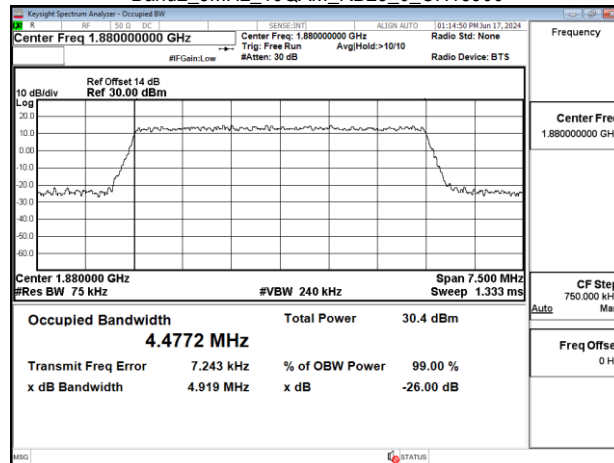
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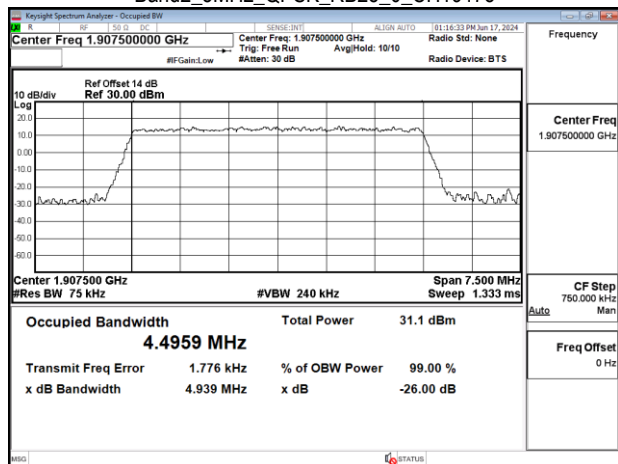
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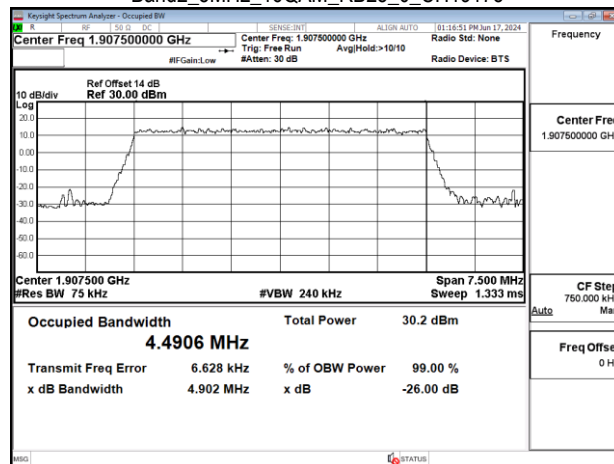
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Band2\_5MHz\_QPSK\_RB25\_0\_CH19175



Band2\_5MHz\_16QAM\_RB25\_0\_CH19175

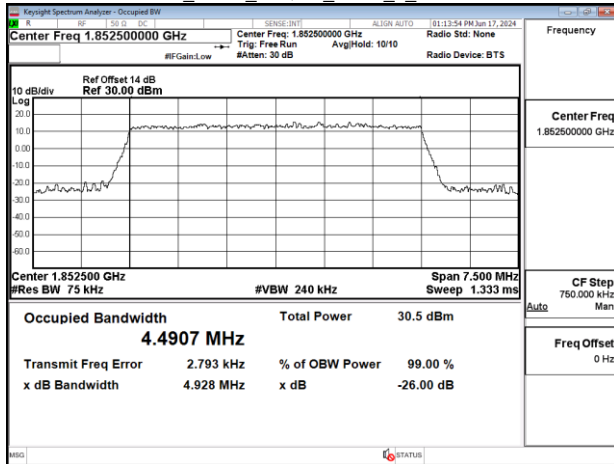


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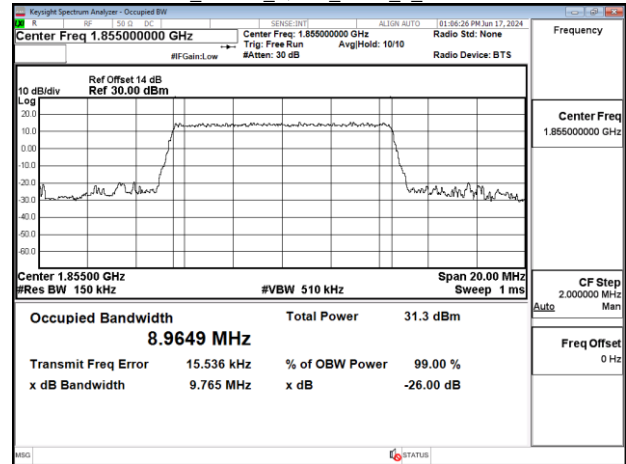
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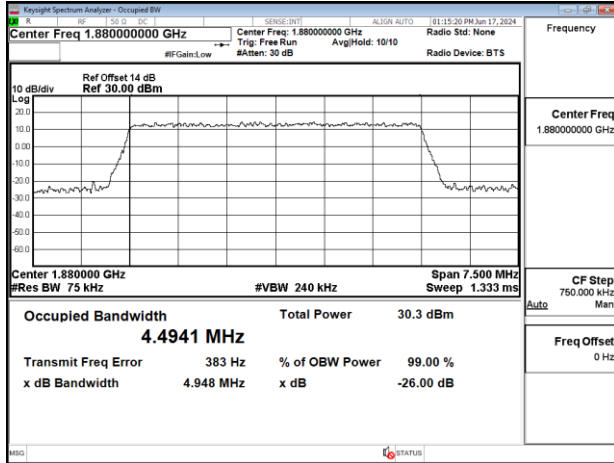
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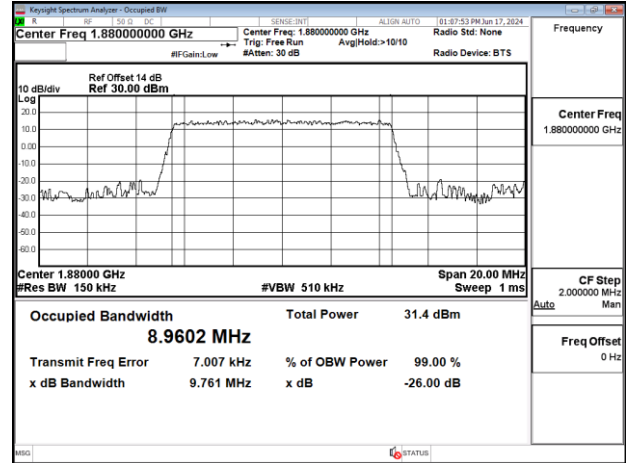
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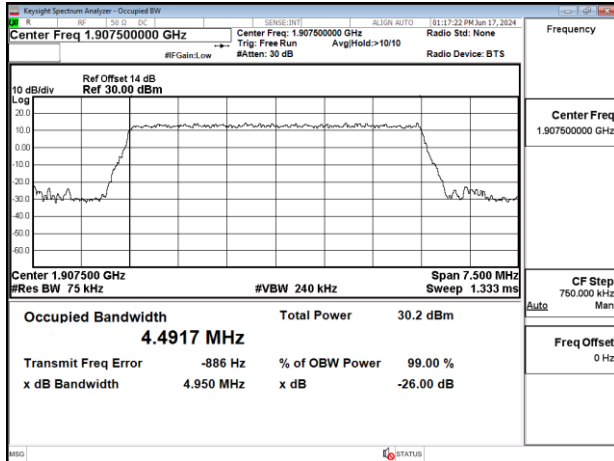
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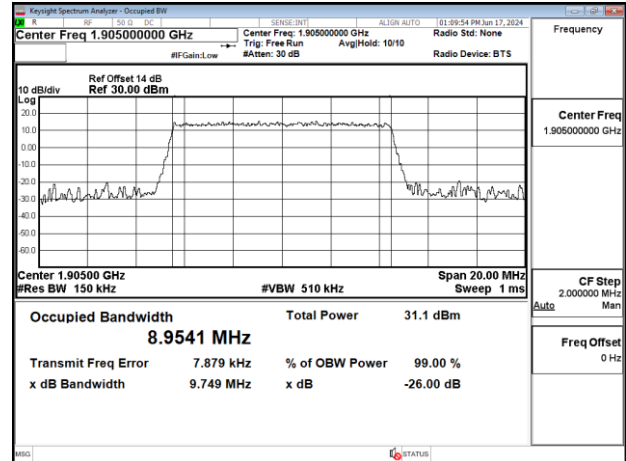
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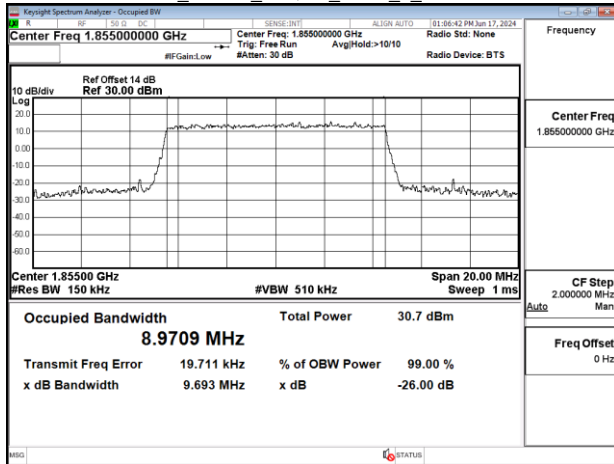


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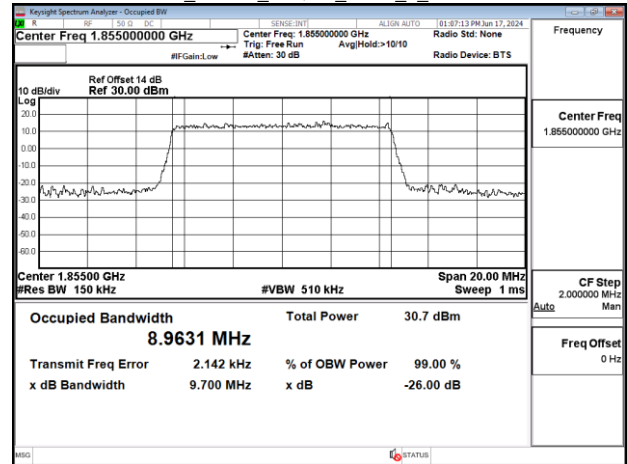
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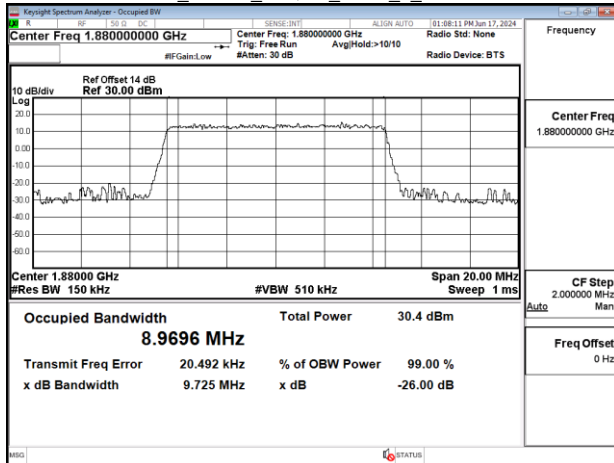
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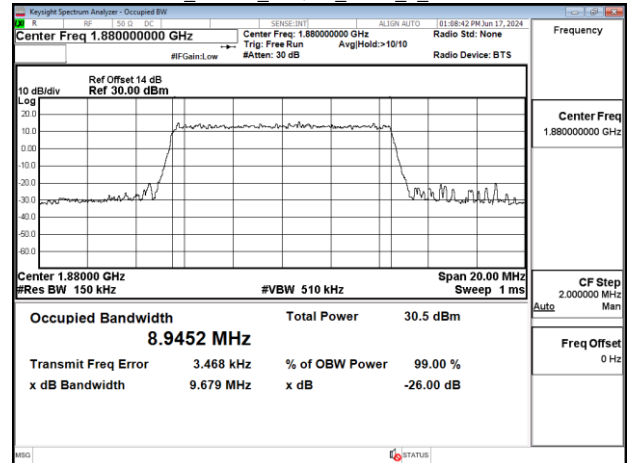
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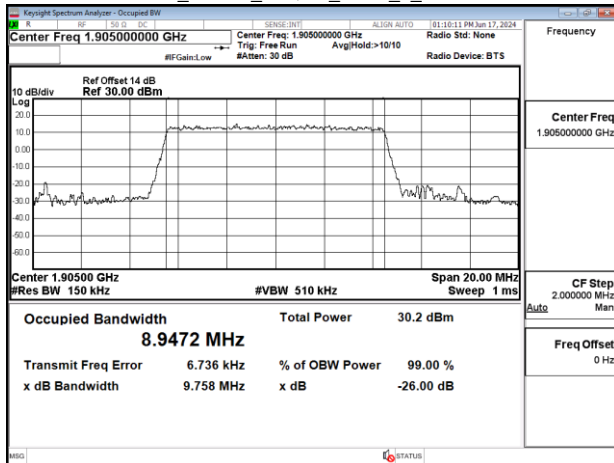
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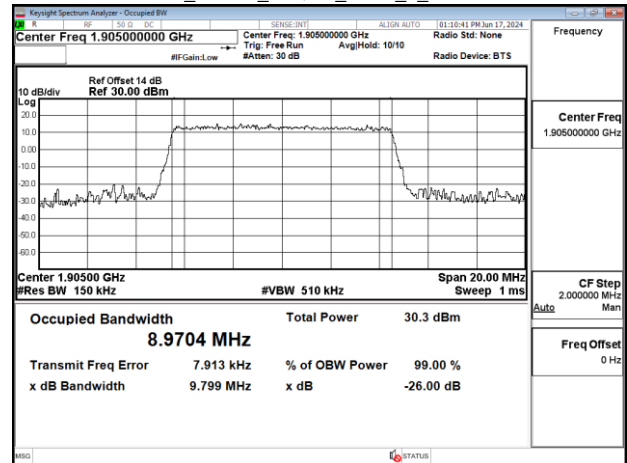
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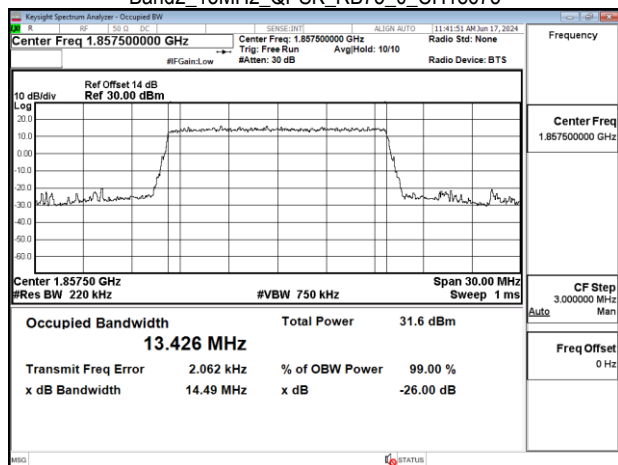
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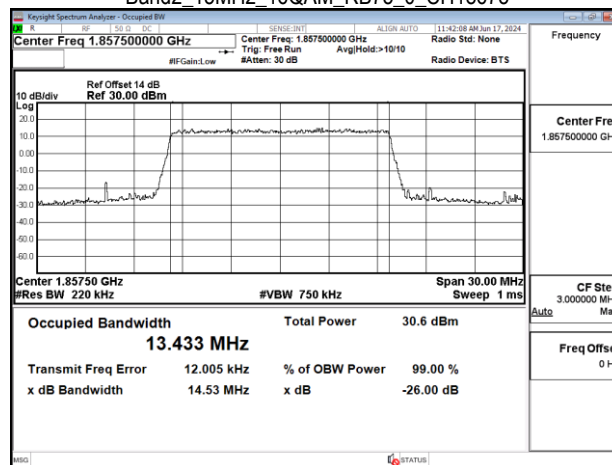
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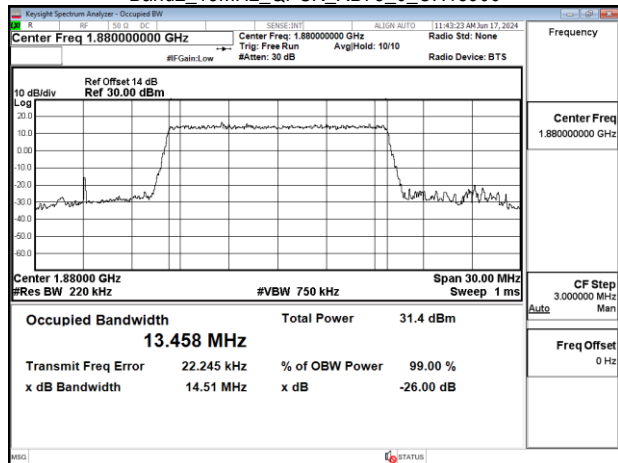
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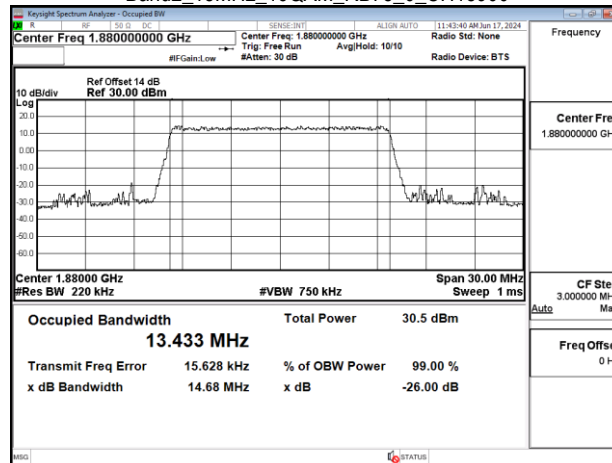
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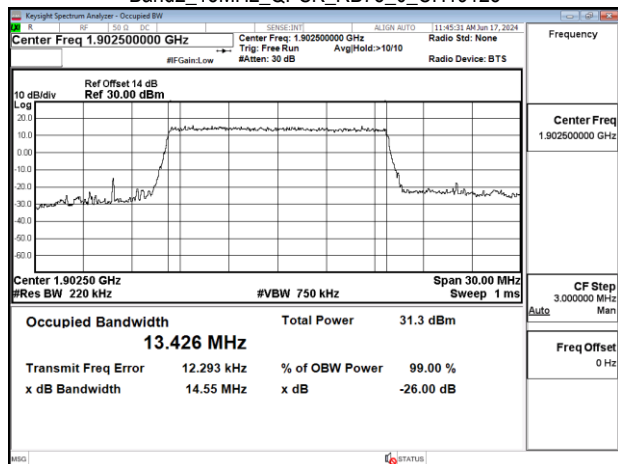
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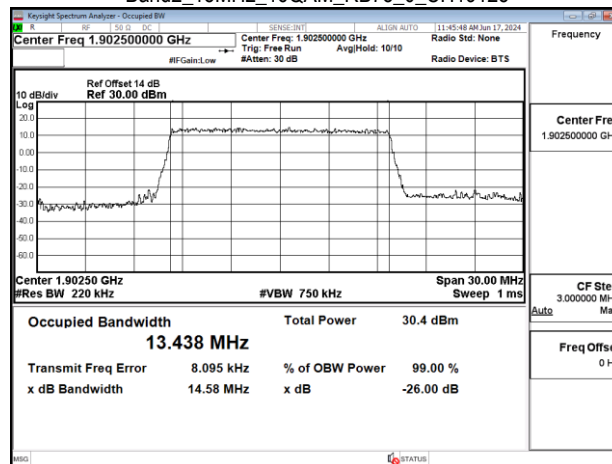
Band2\_15MHz\_16QAM\_RB75\_0\_CH18900



Band2\_15MHz\_QPSK\_RB75\_0\_CH19125



Band2\_15MHz\_16QAM\_RB75\_0\_CH19125



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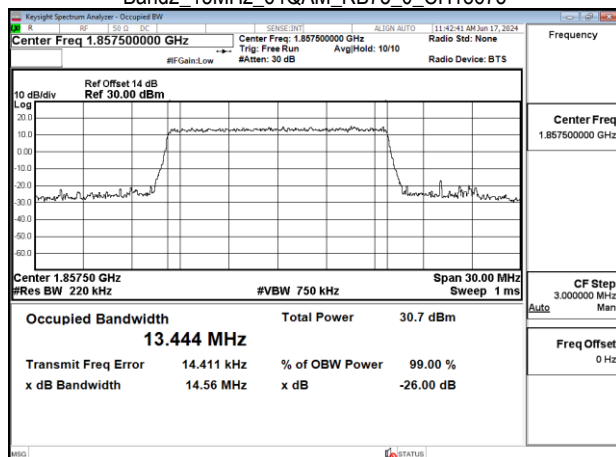
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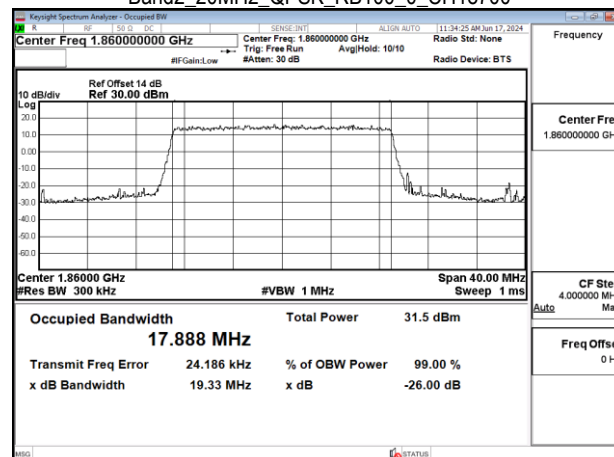
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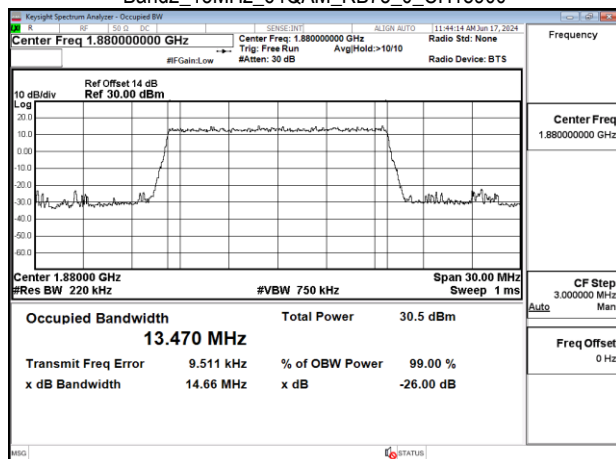
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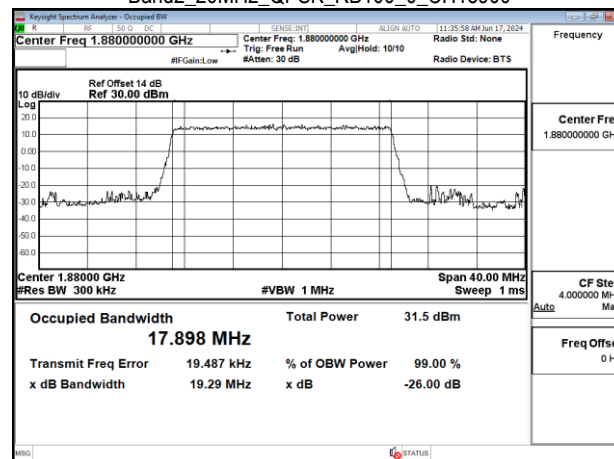
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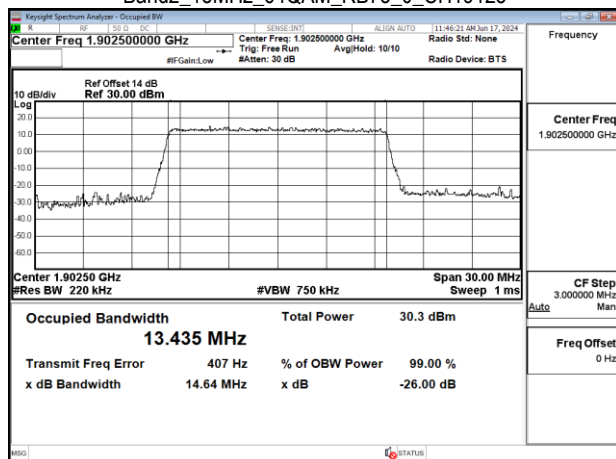
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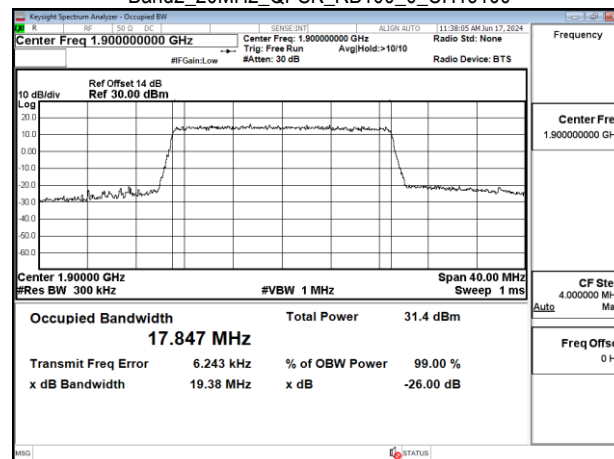
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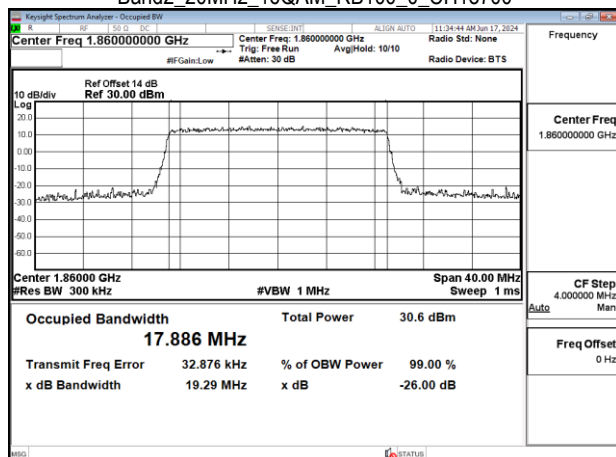
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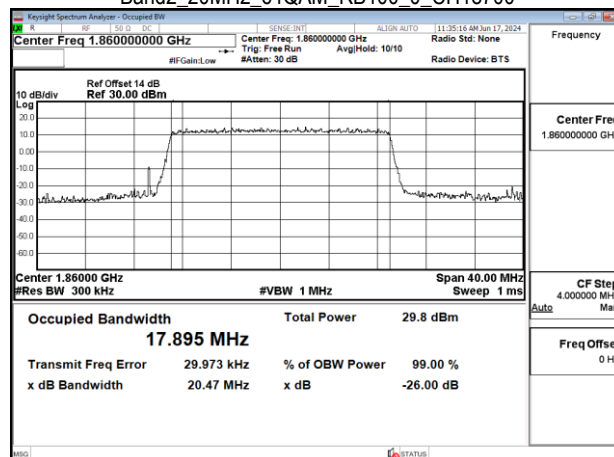
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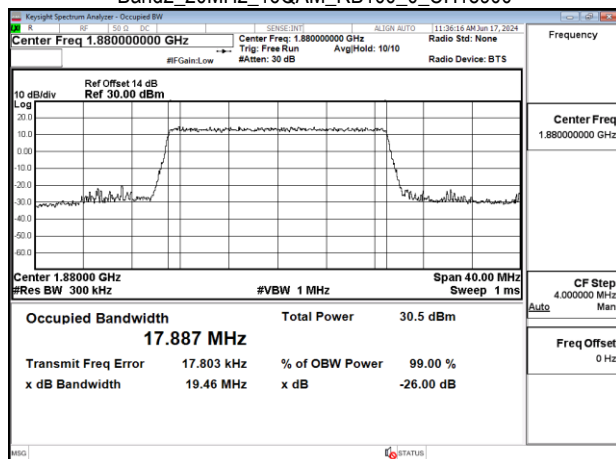
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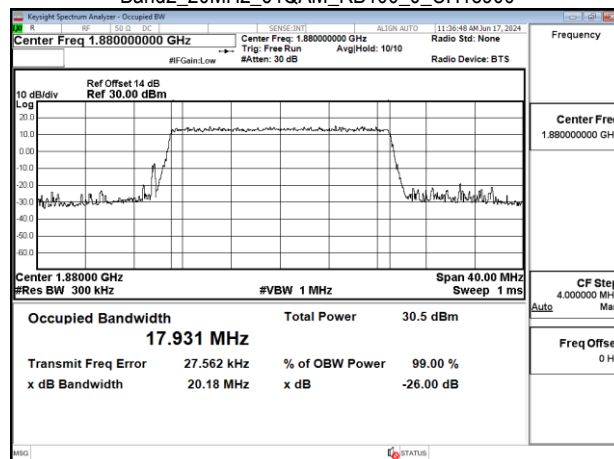
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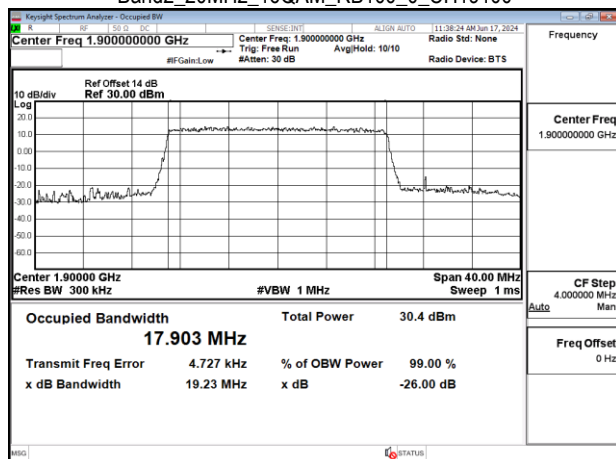
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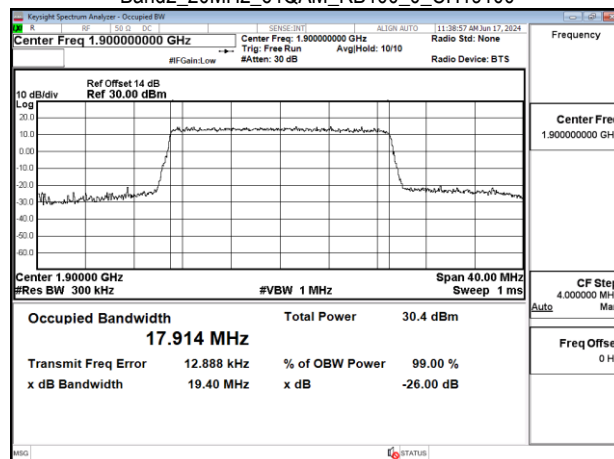
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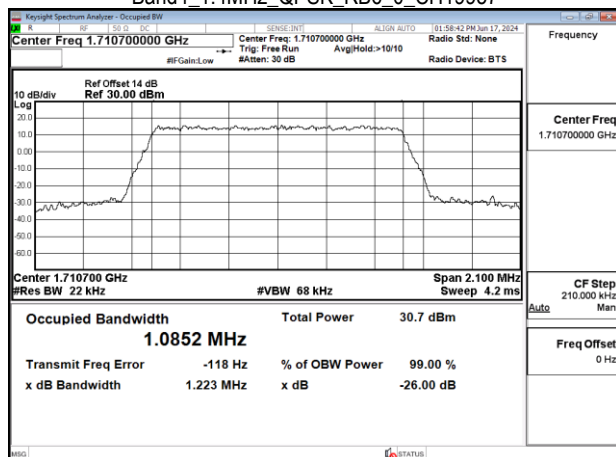


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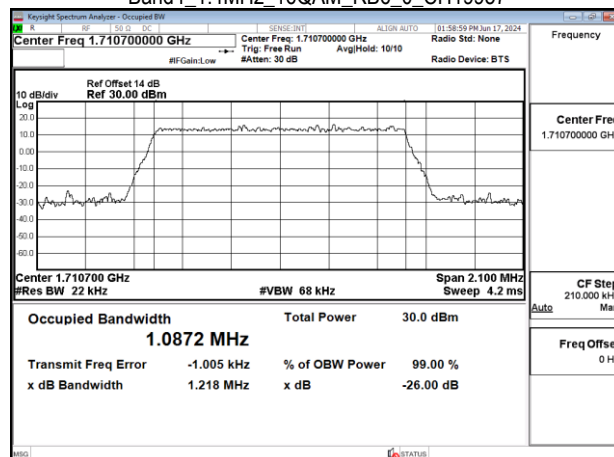
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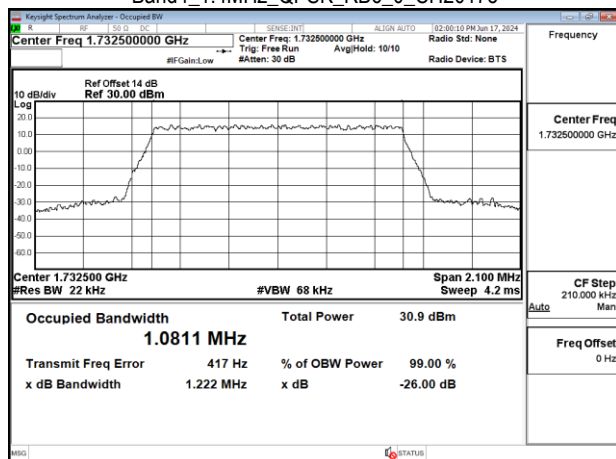
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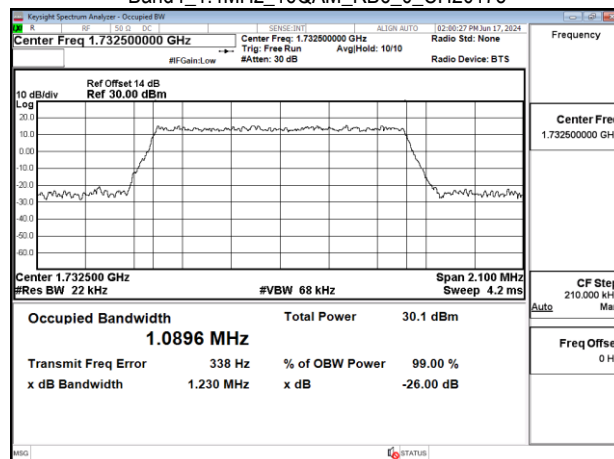
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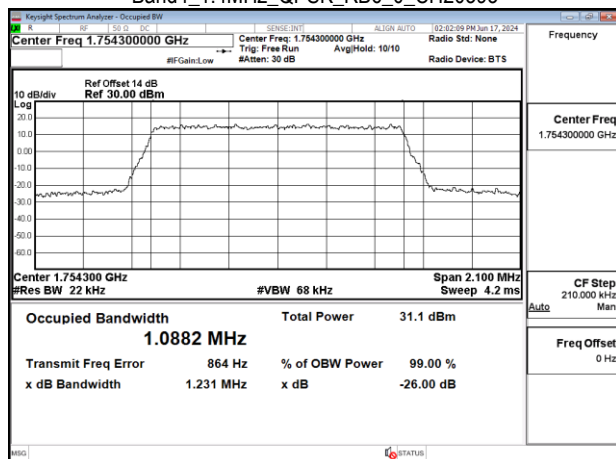
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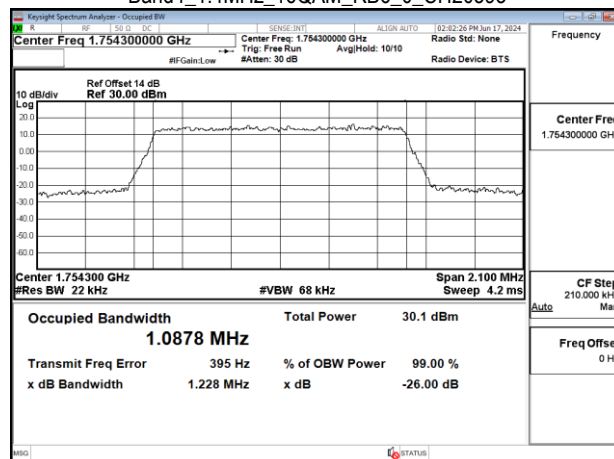
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Band4 1.4MHz QPSK\_RB6\_0\_CH20393



Band4 1.4MHz\_16QAM\_RB6\_0\_CH20393

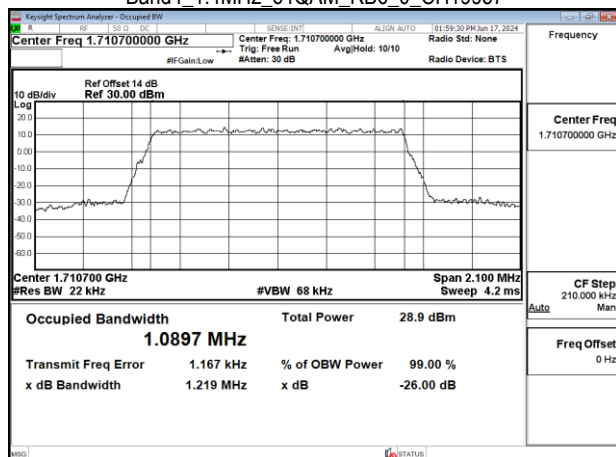


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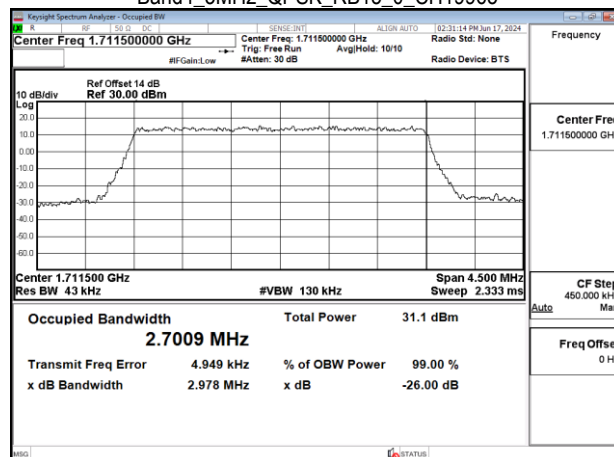
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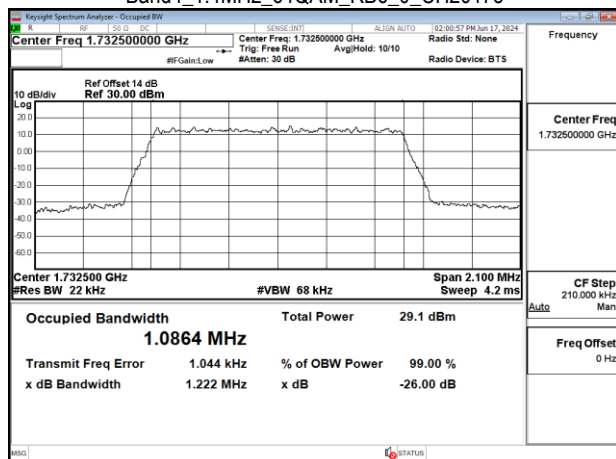
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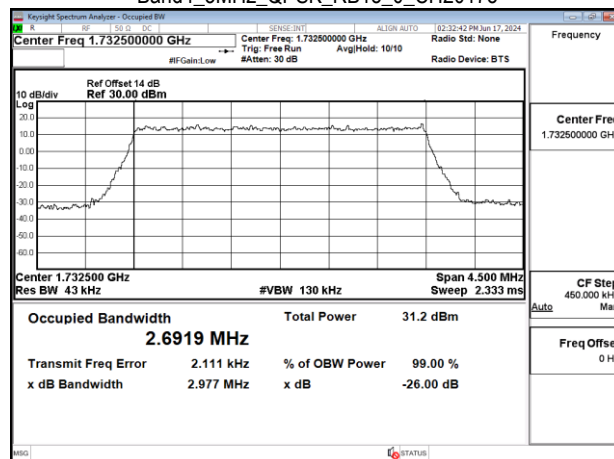
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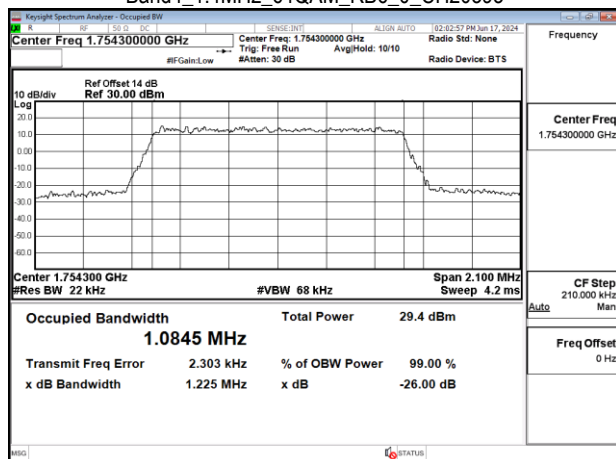
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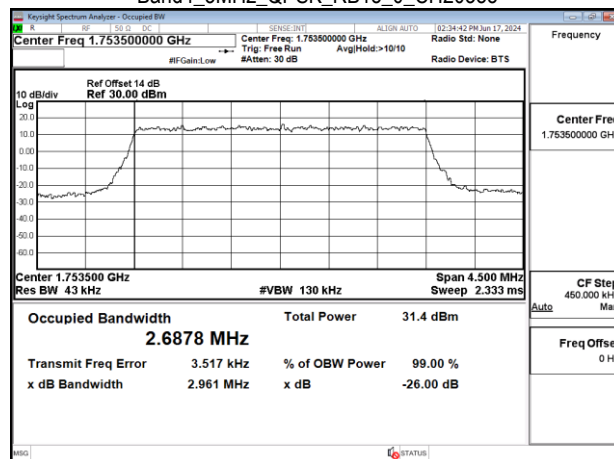
Band4\_3MHz\_QPSK\_RB15\_0\_CH20175



Band4\_1.4MHz\_64QAM\_RB6\_0\_CH20393



Band4\_3MHz\_QPSK\_RB15\_0\_CH20385



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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