

### 5.8.1 LTE Band 2

| LTE Band 2_20 MHz_QPSK |                    |                        |                                |                         |                |                |            |
|------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                    | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 698.804            | -79.72                 | 11.01                          | -68.71                  | -13.00         | -55.71         | Horizontal |
| 2                      | 809.924            | -80.05                 | 12.40                          | -67.65                  | -13.00         | -54.65         | Horizontal |
| 3                      | 992.997            | -81.26                 | 15.25                          | -66.01                  | -13.00         | -53.01         | Horizontal |
| 4                      | 7440.000           | -50.06                 | 13.06                          | -37.00                  | -13.00         | -24.00         | Horizontal |
| 5                      | 9300.000           | -46.00                 | 14.68                          | -31.32                  | -13.00         | -18.32         | Horizontal |
| 6                      | 771.047            | -79.06                 | 11.39                          | -67.67                  | -13.00         | -54.67         | Vertical   |
| 7                      | 850.760            | -79.63                 | 13.12                          | -66.51                  | -13.00         | -53.51         | Vertical   |
| 8                      | 906.304            | -80.09                 | 14.22                          | -65.87                  | -13.00         | -52.87         | Vertical   |
| 9                      | 7440.000           | -42.98                 | 13.06                          | -29.92                  | -13.00         | -16.92         | Vertical   |
| 10                     | 9300.000           | -44.86                 | 14.68                          | -30.18                  | -13.00         | -17.18         | Vertical   |
| Middle Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 620.117            | -79.05                 | 8.99                           | -70.06                  | -13.00         | -57.06         | Horizontal |
| 2                      | 925.613            | -80.38                 | 14.08                          | -66.30                  | -13.00         | -53.30         | Horizontal |
| 3                      | 965.474            | -80.64                 | 14.47                          | -66.17                  | -13.00         | -53.17         | Horizontal |
| 4                      | 7520.000           | -35.39                 | 13.07                          | -22.32                  | -13.00         | -9.32          | Horizontal |
| 5                      | 9400.000           | -40.58                 | 14.73                          | -25.85                  | -13.00         | -12.85         | Horizontal |
| 6                      | 527.571            | -78.68                 | 7.69                           | -70.99                  | -13.00         | -57.99         | Vertical   |
| 7                      | 620.117            | -79.05                 | 8.99                           | -70.06                  | -13.00         | -57.06         | Vertical   |
| 8                      | 809.924            | -79.99                 | 12.40                          | -67.59                  | -13.00         | -54.59         | Vertical   |
| 9                      | 7520.000           | -31.39                 | 13.07                          | -18.32                  | -13.00         | -5.32          | Vertical   |
| 10                     | 9400.000           | -36.77                 | 14.73                          | -22.04                  | -13.00         | -9.04          | Vertical   |
| Highest Channel        |                    |                        |                                |                         |                |                |            |
| 1                      | 689.051            | -80.10                 | 10.65                          | -69.45                  | -13.00         | -56.45         | Vertical   |
| 2                      | 718.725            | -80.26                 | 10.99                          | -69.27                  | -13.00         | -56.27         | Vertical   |
| 3                      | 787.475            | -79.52                 | 11.87                          | -67.65                  | -13.00         | -54.65         | Vertical   |
| 4                      | 5700.000           | -35.33                 | 11.33                          | -24.00                  | -13.00         | -11.00         | Horizontal |
| 5                      | 7600.000           | -38.57                 | 13.04                          | -25.53                  | -13.00         | -12.53         | Horizontal |
| 6                      | 554.171            | -79.34                 | 7.90                           | -71.44                  | -13.00         | -58.44         | Vertical   |
| 7                      | 679.435            | -79.50                 | 10.17                          | -69.33                  | -13.00         | -56.33         | Vertical   |
| 8                      | 856.760            | -80.31                 | 13.18                          | -67.13                  | -13.00         | -54.13         | Vertical   |
| 9                      | 5700.000           | -30.18                 | 11.33                          | -18.85                  | -13.00         | -5.85          | Vertical   |
| 10                     | 7600.000           | -34.16                 | 13.04                          | -21.12                  | -13.00         | -8.12          | Vertical   |

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### 5.8.2 LTE Band 4

| LTE Band 4_20 MHz_QPSK |                    |                        |                                |                         |                |                |            |
|------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                    | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 633.328            | -79.40                 | 9.21                           | -70.19                  | -13.00         | -57.19         | Horizontal |
| 2                      | 660.602            | -79.56                 | 9.66                           | -69.90                  | -13.00         | -56.90         | Horizontal |
| 3                      | 899.958            | -80.03                 | 13.92                          | -66.11                  | -13.00         | -53.11         | Horizontal |
| 4                      | 6880.000           | -50.08                 | 13.00                          | -37.08                  | -13.00         | -24.08         | Horizontal |
| 5                      | 8600.000           | -48.71                 | 13.76                          | -34.95                  | -13.00         | -21.95         | Horizontal |
| 6                      | 723.793            | -79.42                 | 11.05                          | -68.37                  | -13.00         | -55.37         | Vertical   |
| 7                      | 844.803            | -80.06                 | 13.05                          | -67.01                  | -13.00         | -54.01         | Vertical   |
| 8                      | 952.000            | -80.35                 | 14.37                          | -65.98                  | -13.00         | -52.98         | Vertical   |
| 9                      | 6880.000           | -47.46                 | 13.00                          | -34.46                  | -13.00         | -21.46         | Vertical   |
| 10                     | 8600.000           | -42.50                 | 13.76                          | -28.74                  | -13.00         | -15.74         | Vertical   |
| Middle Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 739.214            | -79.74                 | 11.16                          | -68.58                  | -13.00         | -55.58         | Horizontal |
| 2                      | 804.252            | -79.11                 | 12.27                          | -66.84                  | -13.00         | -53.84         | Horizontal |
| 3                      | 945.334            | -80.37                 | 14.41                          | -65.96                  | -13.00         | -52.96         | Horizontal |
| 4                      | 6930.000           | -51.28                 | 13.01                          | -38.27                  | -13.00         | -25.27         | Horizontal |
| 5                      | 8662.500           | -50.08                 | 13.87                          | -36.21                  | -13.00         | -23.21         | Horizontal |
| 6                      | 554.171            | -79.03                 | 7.90                           | -71.13                  | -13.00         | -58.13         | Vertical   |
| 7                      | 615.774            | -79.63                 | 8.91                           | -70.72                  | -13.00         | -57.72         | Vertical   |
| 8                      | 698.804            | -79.25                 | 11.01                          | -68.24                  | -13.00         | -55.24         | Vertical   |
| 9                      | 6930.000           | -46.76                 | 13.01                          | -33.75                  | -13.00         | -20.75         | Vertical   |
| 10                     | 8662.500           | -44.28                 | 13.87                          | -30.41                  | -13.00         | -17.41         | Vertical   |
| Highest Channel        |                    |                        |                                |                         |                |                |            |
| 1                      | 535.038            | -79.25                 | 7.71                           | -71.54                  | -13.00         | -58.54         | Horizontal |
| 2                      | 708.694            | -80.20                 | 11.00                          | -69.20                  | -13.00         | -56.20         | Horizontal |
| 3                      | 906.304            | -80.03                 | 14.22                          | -65.81                  | -13.00         | -52.81         | Horizontal |
| 4                      | 6980.000           | -48.78                 | 13.01                          | -35.77                  | -13.00         | -22.77         | Horizontal |
| 5                      | 8725.000           | -49.82                 | 13.99                          | -35.83                  | -13.00         | -22.83         | Horizontal |
| 6                      | 698.804            | -79.85                 | 11.01                          | -68.84                  | -13.00         | -55.84         | Vertical   |
| 7                      | 804.252            | -79.35                 | 12.27                          | -67.08                  | -13.00         | -54.08         | Vertical   |
| 8                      | 992.997            | -80.84                 | 15.25                          | -65.59                  | -13.00         | -52.59         | Vertical   |
| 9                      | 6980.000           | -44.63                 | 13.01                          | -31.62                  | -13.00         | -18.62         | Vertical   |
| 10                     | 8725.000           | -41.69                 | 13.99                          | -27.70                  | -13.00         | -14.70         | Vertical   |

### 5.8.3 LTE Band 5

| LTE Band 5_10 MHz_QPSK |                    |                        |                                |                         |                |                |            |
|------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                    | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 651.383            | -87.48                 | 39.07                          | -48.41                  | -13.00         | -35.41         | Horizontal |
| 2                      | 698.804            | -87.83                 | 40.56                          | -47.27                  | -13.00         | -34.27         | Horizontal |
| 3                      | 945.334            | -86.27                 | 43.55                          | -42.72                  | -13.00         | -29.72         | Horizontal |
| 4                      | 4974.000           | -35.52                 | 9.73                           | -25.79                  | -13.00         | -12.79         | Horizontal |
| 5                      | 5803.000           | -45.89                 | 11.57                          | -34.32                  | -13.00         | -21.32         | Horizontal |
| 6                      | 718.725            | -87.86                 | 40.53                          | -47.33                  | -13.00         | -34.33         | Vertical   |
| 7                      | 765.648            | -87.46                 | 40.98                          | -46.48                  | -13.00         | -33.48         | Vertical   |
| 8                      | 986.044            | -86.69                 | 44.08                          | -42.61                  | -13.00         | -29.61         | Vertical   |
| 9                      | 4974.000           | -27.67                 | 9.73                           | -17.94                  | -13.00         | -4.94          | Vertical   |
| 10                     | 5803.000           | -37.59                 | 11.57                          | -26.02                  | -13.00         | -13.02         | Vertical   |
| Middle Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 734.037            | -88.04                 | 40.89                          | -47.15                  | -13.00         | -34.15         | Horizontal |
| 2                      | 776.485            | -87.10                 | 40.91                          | -46.19                  | -13.00         | -33.19         | Horizontal |
| 3                      | 938.714            | -86.08                 | 43.31                          | -42.77                  | -13.00         | -29.77         | Horizontal |
| 4                      | 4182.500           | -52.18                 | 9.10                           | -43.08                  | -13.00         | -30.08         | Horizontal |
| 5                      | 5019.000           | -48.08                 | 9.79                           | -38.29                  | -13.00         | -25.29         | Horizontal |
| 6                      | 708.694            | -88.03                 | 40.55                          | -47.48                  | -13.00         | -34.48         | Vertical   |
| 7                      | 815.635            | -87.59                 | 42.02                          | -45.57                  | -13.00         | -32.57         | Vertical   |
| 8                      | 919.132            | -86.90                 | 43.35                          | -43.55                  | -13.00         | -30.55         | Vertical   |
| 9                      | 4182.500           | -49.24                 | 9.10                           | -40.14                  | -13.00         | -27.14         | Vertical   |
| 10                     | 5019.000           | -40.60                 | 9.79                           | -30.81                  | -13.00         | -17.81         | Vertical   |
| Highest Channel        |                    |                        |                                |                         |                |                |            |
| 1                      | 754.963            | -87.45                 | 40.67                          | -46.78                  | -13.00         | -33.78         | Horizontal |
| 2                      | 919.132            | -87.05                 | 43.35                          | -43.70                  | -13.00         | -30.70         | Horizontal |
| 3                      | 958.714            | -86.93                 | 43.67                          | -43.26                  | -13.00         | -30.26         | Horizontal |
| 4                      | 5064.000           | -35.80                 | 9.88                           | -25.92                  | -13.00         | -12.92         | Horizontal |
| 5                      | 5908.000           | -47.74                 | 11.83                          | -35.91                  | -13.00         | -22.91         | Horizontal |
| 6                      | 633.328            | -87.40                 | 38.79                          | -48.61                  | -13.00         | -35.61         | Vertical   |
| 7                      | 734.037            | -87.94                 | 40.89                          | -47.05                  | -13.00         | -34.05         | Vertical   |
| 8                      | 992.997            | -86.22                 | 44.27                          | -41.95                  | -13.00         | -28.95         | Vertical   |
| 9                      | 5064.000           | -27.64                 | 9.88                           | -17.76                  | -13.00         | -4.76          | Vertical   |
| 10                     | 5908.000           | -40.26                 | 11.83                          | -28.43                  | -13.00         | -15.43         | Vertical   |

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#### 5.8.4 LTE Band 7

| LTE Band 7_20 MHz_QPSK |                    |                        |                                |                         |                |                |            |
|------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                    | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 602.929            | -79.60                 | 8.62                           | -70.98                  | -25.00         | -45.98         | Horizontal |
| 2                      | 744.427            | -79.46                 | 11.21                          | -68.25                  | -25.00         | -43.25         | Horizontal |
| 3                      | 992.997            | -80.53                 | 15.25                          | -65.28                  | -25.00         | -40.28         | Horizontal |
| 4                      | 5020.000           | -54.26                 | 9.79                           | -44.47                  | -25.00         | -19.47         | Horizontal |
| 5                      | 7530.000           | -48.06                 | 13.06                          | -35.00                  | -25.00         | -10.00         | Horizontal |
| 6                      | 781.961            | -79.08                 | 11.57                          | -67.51                  | -25.00         | -42.51         | Vertical   |
| 7                      | 912.695            | -79.81                 | 14.10                          | -65.71                  | -25.00         | -40.71         | Vertical   |
| 8                      | 979.139            | -80.46                 | 14.84                          | -65.62                  | -25.00         | -40.62         | Vertical   |
| 9                      | 5020.000           | -53.87                 | 9.79                           | -44.08                  | -25.00         | -19.08         | Vertical   |
| 10                     | 7530.000           | -42.34                 | 13.06                          | -29.28                  | -25.00         | -4.28          | Vertical   |
| Middle Channel         |                    |                        |                                |                         |                |                |            |
| 1                      | 602.929            | -79.48                 | 8.62                           | -70.86                  | -25.00         | -45.86         | Horizontal |
| 2                      | 723.793            | -79.64                 | 11.05                          | -68.59                  | -25.00         | -43.59         | Horizontal |
| 3                      | 986.044            | -80.67                 | 15.05                          | -65.62                  | -25.00         | -40.62         | Horizontal |
| 4                      | 5070.000           | -54.65                 | 9.90                           | -44.75                  | -25.00         | -19.75         | Horizontal |
| 5                      | 5070.000           | -54.65                 | 9.90                           | -44.75                  | -25.00         | -19.75         | Horizontal |
| 6                      | 765.648            | -79.63                 | 11.46                          | -68.17                  | -25.00         | -43.17         | Vertical   |
| 7                      | 912.695            | -80.07                 | 14.10                          | -65.97                  | -25.00         | -40.97         | Vertical   |
| 8                      | 965.474            | -80.26                 | 14.47                          | -65.79                  | -25.00         | -40.79         | Vertical   |
| 9                      | 5070.000           | -54.18                 | 9.90                           | -44.28                  | -25.00         | -19.28         | Vertical   |
| 10                     | 7605.000           | -42.84                 | 13.04                          | -29.80                  | -25.00         | -4.80          | Vertical   |
| Highest Channel        |                    |                        |                                |                         |                |                |            |
| 1                      | 739.214            | -79.80                 | 11.16                          | -68.64                  | -25.00         | -43.64         | Horizontal |
| 2                      | 771.047            | -79.22                 | 11.39                          | -67.83                  | -25.00         | -42.83         | Horizontal |
| 3                      | 945.334            | -79.43                 | 14.41                          | -65.02                  | -25.00         | -40.02         | Horizontal |
| 4                      | 5120.000           | -54.02                 | 10.01                          | -44.01                  | -25.00         | -19.01         | Horizontal |
| 5                      | 7680.000           | -47.48                 | 13.02                          | -34.46                  | -25.00         | -9.46          | Horizontal |
| 6                      | 821.387            | -80.46                 | 12.72                          | -67.74                  | -25.00         | -42.74         | Vertical   |
| 7                      | 925.613            | -79.56                 | 14.08                          | -65.48                  | -25.00         | -40.48         | Vertical   |
| 8                      | 972.283            | -80.59                 | 14.66                          | -65.93                  | -25.00         | -40.93         | Vertical   |
| 9                      | 5120.000           | -55.80                 | 10.01                          | -45.79                  | -25.00         | -20.79         | Vertical   |
| 10                     | 7680.000           | -42.71                 | 13.02                          | -29.69                  | -25.00         | -4.69          | Vertical   |

### 5.8.5 LTE Band 12

| LTE Band 12_ 10 MHz_ QPSK |                    |                        |                                |                         |                |                |            |
|---------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                       | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 660.602            | -87.62                 | 39.23                          | -48.39                  | -13.00         | -35.39         | Horizontal |
| 2                         | 815.635            | -87.48                 | 42.02                          | -45.46                  | -13.00         | -32.46         | Horizontal |
| 3                         | 938.714            | -86.51                 | 43.31                          | -43.20                  | -13.00         | -30.20         | Horizontal |
| 4                         | 4928.000           | -41.25                 | 9.71                           | -31.54                  | -13.00         | -18.54         | Horizontal |
| 5                         | 5632.000           | -48.17                 | 11.17                          | -37.00                  | -13.00         | -24.00         | Horizontal |
| 6                         | 586.217            | -87.38                 | 37.83                          | -49.55                  | -13.00         | -36.55         | Vertical   |
| 7                         | 689.051            | -87.80                 | 40.21                          | -47.59                  | -13.00         | -34.59         | Vertical   |
| 8                         | 965.474            | -86.32                 | 43.56                          | -42.76                  | -13.00         | -29.76         | Vertical   |
| 9                         | 4928.000           | -34.35                 | 9.71                           | -24.64                  | -13.00         | -11.64         | Vertical   |
| 10                        | 5632.000           | -42.01                 | 11.17                          | -30.84                  | -13.00         | -17.84         | Vertical   |
| Middle Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 734.037            | -87.75                 | 40.89                          | -46.86                  | -13.00         | -33.86         | Horizontal |
| 2                         | 838.887            | -87.68                 | 42.22                          | -45.46                  | -13.00         | -32.46         | Horizontal |
| 3                         | 986.044            | -86.39                 | 44.08                          | -42.31                  | -13.00         | -29.31         | Horizontal |
| 4                         | 4952.500           | -37.86                 | 9.72                           | -28.14                  | -13.00         | -15.14         | Horizontal |
| 5                         | 5660.000           | -43.94                 | 11.23                          | -32.71                  | -13.00         | -19.71         | Horizontal |
| 6                         | 527.571            | -87.82                 | 36.86                          | -50.96                  | -13.00         | -37.96         | Vertical   |
| 7                         | 821.387            | -87.69                 | 42.17                          | -45.52                  | -13.00         | -32.52         | Vertical   |
| 8                         | 979.139            | -86.32                 | 43.89                          | -42.43                  | -13.00         | -29.43         | Vertical   |
| 9                         | 4952.500           | -29.84                 | 9.72                           | -20.12                  | -13.00         | -7.12          | Vertical   |
| 10                        | 5660.000           | -38.34                 | 11.23                          | -27.11                  | -13.00         | -14.11         | Vertical   |
| Highest Channel           |                    |                        |                                |                         |                |                |            |
| 1                         | 821.387            | -87.39                 | 42.17                          | -45.22                  | -13.00         | -32.22         | Horizontal |
| 2                         | 906.304            | -86.52                 | 43.45                          | -43.07                  | -13.00         | -30.07         | Horizontal |
| 3                         | 992.997            | -86.81                 | 44.27                          | -42.54                  | -13.00         | -29.54         | Horizontal |
| 4                         | 4266.000           | -45.56                 | 9.22                           | -36.34                  | -13.00         | -23.34         | Horizontal |
| 5                         | 4977.000           | -41.93                 | 9.73                           | -32.20                  | -13.00         | -19.20         | Horizontal |
| 6                         | 684.226            | -87.80                 | 39.99                          | -47.81                  | -13.00         | -34.81         | Vertical   |
| 7                         | 815.635            | -87.35                 | 42.02                          | -45.33                  | -13.00         | -32.33         | Vertical   |
| 8                         | 958.714            | -86.00                 | 43.67                          | -42.33                  | -13.00         | -29.33         | Vertical   |
| 9                         | 4266.000           | -40.10                 | 9.22                           | -30.88                  | -13.00         | -17.88         | Vertical   |
| 10                        | 4977.000           | -31.40                 | 9.73                           | -21.67                  | -13.00         | -8.67          | Vertical   |

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### 5.8.6 LTE Band 13

| LTE Band 13_ 5 MHz_ QPSK |                    |                        |                                |                         |                |                |            |
|--------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                      | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel           |                    |                        |                                |                         |                |                |            |
| 1                        | 655.977            | -87.56                 | 39.22                          | -48.34                  | -13.00         | -35.34         | Horizontal |
| 2                        | 679.435            | -87.91                 | 39.73                          | -48.18                  | -13.00         | -35.18         | Horizontal |
| 3                        | 899.958            | -86.82                 | 43.17                          | -43.65                  | -13.00         | -30.65         | Horizontal |
| 4                        | 1559-1610          | --                     | --                             | --                      | -40.00         | >15            | Horizontal |
| 5                        | 4677.000           | -50.42                 | 9.61                           | -40.81                  | -13.00         | -27.81         | Horizontal |
| 6                        | 5456.500           | -47.63                 | 10.76                          | -36.87                  | -13.00         | -23.87         | Horizontal |
| 7                        | 698.804            | -87.78                 | 40.56                          | -47.22                  | -13.00         | -34.22         | Vertical   |
| 8                        | 862.802            | -86.97                 | 42.55                          | -44.42                  | -13.00         | -31.42         | Vertical   |
| 9                        | 952.000            | -86.09                 | 43.49                          | -42.60                  | -13.00         | -29.60         | Horizontal |
| 10                       | 1559-1610          | --                     | --                             | --                      | -40.00         | >15            | Horizontal |
| 11                       | 4677.000           | -43.77                 | 9.61                           | -34.16                  | -13.00         | -21.16         | Vertical   |
| 12                       | 5456.500           | -44.13                 | 10.76                          | -33.37                  | -13.00         | -20.37         | Vertical   |
| Highest Channel          |                    |                        |                                |                         |                |                |            |
| 1                        | 550.290            | -88.09                 | 37.07                          | -51.02                  | -13.00         | -38.02         | Horizontal |
| 2                        | 723.793            | -87.79                 | 40.59                          | -47.20                  | -13.00         | -34.20         | Horizontal |
| 3                        | 925.613            | -86.73                 | 43.27                          | -43.46                  | -13.00         | -30.46         | Horizontal |
| 4                        | 1559-1610          | --                     | --                             | --                      | -40.00         | >15            | Horizontal |
| 5                        | 4692.000           | -49.17                 | 9.62                           | -39.55                  | -13.00         | -26.55         | Horizontal |
| 6                        | 5474.000           | -48.50                 | 10.78                          | -37.72                  | -13.00         | -24.72         | Horizontal |
| 7                        | 586.217            | -87.81                 | 37.83                          | -49.98                  | -13.00         | -36.98         | Vertical   |
| 8                        | 809.924            | -87.19                 | 41.88                          | -45.31                  | -13.00         | -32.31         | Vertical   |
| 9                        | 992.997            | -86.31                 | 44.27                          | -42.04                  | -13.00         | -29.04         | Horizontal |
| 10                       | 1559-1610          | --                     | --                             | --                      | -40.00         | >15            | Horizontal |
| 11                       | 4692.000           | -41.63                 | 9.62                           | -32.01                  | -13.00         | -19.01         | Vertical   |
| 12                       | 5474.000           | -44.34                 | 10.78                          | -33.56                  | -13.00         | -20.56         | Vertical   |

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| LTE Band 13_ 10 MHz_ QPSK |           |            |                   |             |        |        |            |
|---------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                       | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                           | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Middle Channel            |           |            |                   |             |        |        |            |
| 1                         | 718.725   | -87.94     | 40.53             | -47.41      | -13.00 | -34.41 | Horizontal |
| 2                         | 893.656   | -86.82     | 43.01             | -43.81      | -13.00 | -30.81 | Horizontal |
| 3                         | 972.283   | -86.57     | 43.73             | -42.84      | -13.00 | -29.84 | Horizontal |
| 4                         | 1559-1610 | --         |                   |             | -40.00 | >15    | Horizontal |
| 5                         | 4707.000  | -49.82     | 9.63              | -40.19      | -13.00 | -27.19 | Horizontal |
| 6                         | 5491.500  | -48.64     | 10.82             | -37.82      | -13.00 | -24.82 | Horizontal |
| 7                         | 689.051   | -87.69     | 40.21             | -47.48      | -13.00 | -34.48 | Vertical   |
| 8                         | 919.132   | -85.52     | 43.35             | -42.17      | -13.00 | -29.17 | Vertical   |
| 9                         | 972.283   | -86.38     | 43.73             | -42.65      | -13.00 | -29.65 | Horizontal |
| 10                        | 1559-1610 | --         |                   |             | -40.00 | >15    | Horizontal |
| 11                        | 4707.000  | -40.74     | 9.63              | -31.11      | -13.00 | -18.11 | Vertical   |
| 12                        | 5491.500  | -42.20     | 10.82             | -31.38      | -13.00 | -18.38 | Vertical   |

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### 5.8.7 LTE Band 17

| LTE Band 17_ 10 MHz_ QPSK |                    |                        |                                |                         |                |                |            |
|---------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                       | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 633.328            | -87.24                 | 38.79                          | -48.45                  | -13.00         | -35.45         | Horizontal |
| 2                         | 925.613            | -86.99                 | 43.27                          | -43.72                  | -13.00         | -30.72         | Horizontal |
| 3                         | 986.044            | -86.31                 | 44.08                          | -42.23                  | -13.00         | -29.23         | Horizontal |
| 4                         | 4254.000           | -46.02                 | 9.20                           | -36.82                  | -13.00         | -23.82         | Horizontal |
| 5                         | 4963.000           | -43.35                 | 9.73                           | -33.62                  | -13.00         | -20.62         | Horizontal |
| 6                         | 804.252            | -86.40                 | 41.76                          | -44.64                  | -13.00         | -31.64         | Vertical   |
| 7                         | 919.132            | -87.07                 | 43.35                          | -43.72                  | -13.00         | -30.72         | Vertical   |
| 8                         | 945.334            | -86.81                 | 43.55                          | -43.26                  | -13.00         | -30.26         | Vertical   |
| 9                         | 4254.000           | -38.64                 | 9.20                           | -29.44                  | -13.00         | -16.44         | Vertical   |
| 10                        | 4963.000           | -31.81                 | 9.73                           | -22.08                  | -13.00         | -9.08          | Vertical   |
| Middle Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 798.620            | -87.05                 | 41.60                          | -45.45                  | -13.00         | -32.45         | Horizontal |
| 2                         | 856.760            | -86.02                 | 42.54                          | -43.48                  | -13.00         | -30.48         | Horizontal |
| 3                         | 958.714            | -86.54                 | 43.67                          | -42.87                  | -13.00         | -29.87         | Horizontal |
| 4                         | 4260.000           | -44.87                 | 9.21                           | -35.66                  | -13.00         | -22.66         | Horizontal |
| 5                         | 4970.000           | -41.39                 | 9.73                           | -31.66                  | -13.00         | -18.66         | Horizontal |
| 6                         | 624.490            | -86.98                 | 38.49                          | -48.49                  | -13.00         | -35.49         | Vertical   |
| 7                         | 665.261            | -87.83                 | 39.34                          | -48.49                  | -13.00         | -35.49         | Vertical   |
| 8                         | 881.184            | -87.44                 | 42.88                          | -44.56                  | -13.00         | -31.56         | Vertical   |
| 9                         | 4260.000           | -37.80                 | 9.21                           | -28.59                  | -13.00         | -15.59         | Vertical   |
| 10                        | 4970.000           | -31.40                 | 9.73                           | -21.67                  | -13.00         | -8.67          | Vertical   |
| Highest Channel           |                    |                        |                                |                         |                |                |            |
| 1                         | 646.822            | -87.33                 | 39.01                          | -48.32                  | -13.00         | -35.32         | Horizontal |
| 2                         | 674.677            | -87.22                 | 39.62                          | -47.60                  | -13.00         | -34.60         | Horizontal |
| 3                         | 809.924            | -87.60                 | 41.88                          | -45.72                  | -13.00         | -32.72         | Horizontal |
| 4                         | 4266.000           | -51.23                 | 9.22                           | -42.01                  | -13.00         | -29.01         | Horizontal |
| 5                         | 4977.000           | -47.12                 | 9.73                           | -37.39                  | -13.00         | -24.39         | Horizontal |
| 6                         | 815.635            | -87.76                 | 42.02                          | -45.74                  | -13.00         | -32.74         | Vertical   |
| 7                         | 899.958            | -87.08                 | 43.17                          | -43.91                  | -13.00         | -30.91         | Vertical   |
| 8                         | 932.141            | -86.44                 | 43.21                          | -43.23                  | -13.00         | -30.23         | Vertical   |
| 9                         | 4266.000           | -46.39                 | 9.22                           | -37.17                  | -13.00         | -24.17         | Vertical   |
| 10                        | 4977.000           | -37.62                 | 9.73                           | -27.89                  | -13.00         | -14.89         | Vertical   |

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### 5.8.8 LTE Band 38

| LTE Band 38_ 20 MHz_ QPSK |                    |                        |                                |                         |                |                |            |
|---------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| No.                       | Frequency<br>(MHz) | SA<br>Reading<br>(dBm) | Correction<br>factor<br>(dB/m) | EIRP<br>Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Ant. Pol.  |
| Lowest Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 637.795            | -77.69                 | 9.32                           | -68.37                  | -25.00         | -43.37         | Horizontal |
| 2                         | 787.475            | -79.91                 | 11.87                          | -68.04                  | -25.00         | -43.04         | Horizontal |
| 3                         | 844.803            | -80.29                 | 13.05                          | -67.24                  | -25.00         | -42.24         | Horizontal |
| 4                         | 5160.000           | -54.80                 | 10.10                          | -44.70                  | -25.00         | -19.70         | Horizontal |
| 5                         | 7740.000           | -49.72                 | 13.00                          | -36.72                  | -25.00         | -11.72         | Horizontal |
| 6                         | 624.490            | -79.04                 | 8.90                           | -70.14                  | -25.00         | -45.14         | Vertical   |
| 7                         | 821.387            | -80.10                 | 12.72                          | -67.38                  | -25.00         | -42.38         | Vertical   |
| 8                         | 875.013            | -79.84                 | 13.41                          | -66.43                  | -25.00         | -41.43         | Vertical   |
| 9                         | 5160.000           | -55.66                 | 10.10                          | -45.56                  | -25.00         | -20.56         | Vertical   |
| 10                        | 7740.000           | -43.71                 | 13.00                          | -30.71                  | -25.00         | -5.71          | Vertical   |
| Middle Channel            |                    |                        |                                |                         |                |                |            |
| 1                         | 620.117            | -79.07                 | 8.99                           | -70.08                  | -25.00         | -45.08         | Horizontal |
| 2                         | 798.620            | -80.09                 | 12.10                          | -67.99                  | -25.00         | -42.99         | Horizontal |
| 3                         | 844.803            | -80.33                 | 13.05                          | -67.28                  | -25.00         | -42.28         | Horizontal |
| 4                         | 5190.000           | -54.63                 | 10.16                          | -44.47                  | -25.00         | -19.47         | Horizontal |
| 5                         | 7785.000           | -46.56                 | 12.99                          | -33.57                  | -25.00         | -8.57          | Horizontal |
| 6                         | 833.013            | -79.79                 | 12.71                          | -67.08                  | -25.00         | -42.08         | Vertical   |
| 7                         | 887.398            | -80.43                 | 13.81                          | -66.62                  | -25.00         | -41.62         | Vertical   |
| 8                         | 958.714            | -80.46                 | 14.57                          | -65.89                  | -25.00         | -40.89         | Vertical   |
| 9                         | 5190.000           | -55.58                 | 10.16                          | -45.42                  | -25.00         | -20.42         | Vertical   |
| 10                        | 7785.000           | -44.14                 | 12.99                          | -31.15                  | -25.00         | -6.15          | Vertical   |
| Highest Channel           |                    |                        |                                |                         |                |                |            |
| 1                         | 881.184            | -80.22                 | 13.58                          | -66.64                  | -25.00         | -41.64         | Horizontal |
| 2                         | 925.613            | -79.90                 | 14.08                          | -65.82                  | -25.00         | -40.82         | Horizontal |
| 3                         | 979.139            | -79.68                 | 14.84                          | -64.84                  | -25.00         | -39.84         | Horizontal |
| 4                         | 5220.000           | -55.35                 | 10.23                          | -45.12                  | -25.00         | -20.12         | Horizontal |
| 5                         | 7830.000           | -47.78                 | 12.98                          | -34.80                  | -25.00         | -9.80          | Horizontal |
| 6                         | 718.725            | -80.24                 | 10.99                          | -69.25                  | -25.00         | -44.25         | Vertical   |
| 7                         | 868.886            | -80.36                 | 13.43                          | -66.93                  | -25.00         | -41.93         | Vertical   |
| 8                         | 938.714            | -80.01                 | 14.16                          | -65.85                  | -25.00         | -40.85         | Vertical   |
| 9                         | 5220.000           | -54.82                 | 10.23                          | -44.59                  | -25.00         | -19.59         | Vertical   |
| 10                        | 7830.000           | -45.88                 | 12.98                          | -32.90                  | -25.00         | -7.90          | Vertical   |

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### 5.8.1 LTE Band 66

| LTE Band 66_ 20 MHz_ QPSK |           |            |                   |             |        |        |            |
|---------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                       | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                           | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel            |           |            |                   |             |        |        |            |
| 1                         | 844.803   | -80.41     | 13.05             | -67.36      | -13.00 | -54.36 | Horizontal |
| 2                         | 893.656   | -79.83     | 13.74             | -66.09      | -13.00 | -53.09 | Horizontal |
| 3                         | 972.283   | -79.98     | 14.66             | -65.32      | -13.00 | -52.32 | Horizontal |
| 4                         | 6880.000  | -49.34     | 13.00             | -36.34      | -13.00 | -23.34 | Horizontal |
| 5                         | 8600.000  | -43.80     | 13.76             | -30.04      | -13.00 | -17.04 | Horizontal |
| 6                         | 642.292   | -78.76     | 9.37              | -69.39      | -13.00 | -56.39 | Vertical   |
| 7                         | 765.648   | -79.48     | 11.46             | -68.02      | -13.00 | -55.02 | Vertical   |
| 8                         | 906.304   | -80.66     | 14.22             | -66.44      | -13.00 | -53.44 | Vertical   |
| 9                         | 6880.000  | -46.10     | 13.00             | -33.10      | -13.00 | -20.10 | Vertical   |
| 10                        | 8600.000  | -41.34     | 13.76             | -27.58      | -13.00 | -14.58 | Vertical   |
| Middle Channel            |           |            |                   |             |        |        |            |
| 1                         | 708.694   | -79.44     | 11.00             | -68.44      | -13.00 | -55.44 | Horizontal |
| 2                         | 856.760   | -79.93     | 13.18             | -66.75      | -13.00 | -53.75 | Horizontal |
| 3                         | 912.695   | -80.16     | 14.10             | -66.06      | -13.00 | -53.06 | Horizontal |
| 4                         | 6980.000  | -58.14     | 13.01             | -45.13      | -13.00 | -32.13 | Horizontal |
| 5                         | 8725.000  | -55.51     | 13.99             | -41.52      | -13.00 | -28.52 | Horizontal |
| 6                         | 776.485   | -80.08     | 11.40             | -68.68      | -13.00 | -55.68 | Vertical   |
| 7                         | 844.803   | -80.44     | 13.05             | -67.39      | -13.00 | -54.39 | Vertical   |
| 8                         | 945.334   | -80.61     | 14.41             | -66.20      | -13.00 | -53.20 | Vertical   |
| 9                         | 6980.000  | -54.74     | 13.01             | -41.73      | -13.00 | -28.73 | Vertical   |
| 10                        | 8725.000  | -55.13     | 13.99             | -41.14      | -13.00 | -28.14 | Vertical   |
| Highest Channel           |           |            |                   |             |        |        |            |
| 1                         | 781.961   | -79.74     | 11.57             | -68.17      | -13.00 | -55.17 | Horizontal |
| 2                         | 804.252   | -79.91     | 12.27             | -67.64      | -13.00 | -54.64 | Horizontal |
| 3                         | 979.139   | -80.82     | 14.84             | -65.98      | -13.00 | -52.98 | Horizontal |
| 4                         | 7080.000  | -53.75     | 13.02             | -40.73      | -13.00 | -27.73 | Horizontal |
| 5                         | 8850.000  | -53.39     | 14.23             | -39.16      | -13.00 | -26.16 | Horizontal |
| 6                         | 798.620   | -79.85     | 12.10             | -67.75      | -13.00 | -54.75 | Vertical   |
| 7                         | 844.803   | -79.66     | 13.05             | -66.61      | -13.00 | -53.61 | Vertical   |
| 8                         | 958.714   | -80.40     | 14.57             | -65.83      | -13.00 | -52.83 | Vertical   |
| 9                         | 7080.000  | -51.28     | 13.02             | -38.26      | -13.00 | -25.26 | Vertical   |
| 10                        | 8850.000  | -50.54     | 14.23             | -36.31      | -13.00 | -23.31 | Vertical   |

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit

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## 5.9 FREQUENCY STABILITY

**Test Requirement:** FCC 47 CFR Part 2.1055 &  
FCC 47 CFR Part 22.355 &  
FCC 47 CFR Part 24.235 &  
FCC 47 CFR Part 27.54

**Test Method:** ANSI C63.26-2015 & KDB 971168 D01v03r01

**Limits:**

**FCC 47 CFR Part 22.355, FCC 47 CFR Part 90.213**

The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations.

**FCC 47 CFR Part 24.235, FCC 47 CFR Part 27.54**

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

**Test Setup:** Refer to section 4.2.2 for details.

**Test Procedures:**

- 1) Use CMW 500 with Frequency Error measurement capability.
  - a) Temp. =  $-30^{\circ}$  to  $+50^{\circ}\text{C}$
  - b) Voltage = low voltage, 3.7 Vdc, Normal, 3.8 Vdc and High voltage, 4.35 Vdc.

- 2) Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to  $20^{\circ}\text{C}$  and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by  $10^{\circ}\text{C}$  degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until  $+50^{\circ}\text{C}$  is reached.

- 3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

**Equipment Used:** Refer to section 3 for details.

**Test Result:** Please refer to Appendix A

**Note 1:** The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

## APPENDIX A RF TEST DATA

### A.1 PEAK TO AVERAGE RATIO

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#0            | 4.06       | 13        | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 4.97       | 13        | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#0            | 4.47       | 13        | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 5.26       | 13        | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#0            | 4.22       | 13        | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 5.15       | 13        | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#0            | 4.49       | 13        | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 5.71       | 13        | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#0            | 5.52       | 13        | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 6.03       | 13        | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#0            | 5.04       | 13        | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | 5.94       | 13        | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 1RB#0            | 3.95       | 13        | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 15RB#0           | 5.17       | 13        | PASS    |
| Band2 | 3MHz      | QPSK       | 18900   | 1RB#0            | 4.62       | 13        | PASS    |
| Band2 | 3MHz      | QPSK       | 18900   | 15RB#0           | 5.45       | 13        | PASS    |
| Band2 | 3MHz      | QPSK       | 19185   | 1RB#0            | 4.43       | 13        | PASS    |
| Band2 | 3MHz      | QPSK       | 19185   | 15RB#0           | 5.42       | 13        | PASS    |
| Band2 | 3MHz      | 16QAM      | 18615   | 1RB#0            | 4.74       | 13        | PASS    |
| Band2 | 3MHz      | 16QAM      | 18615   | 15RB#0           | 5.98       | 13        | PASS    |
| Band2 | 3MHz      | 16QAM      | 18900   | 1RB#0            | 5.38       | 13        | PASS    |
| Band2 | 3MHz      | 16QAM      | 18900   | 15RB#0           | 6.15       | 13        | PASS    |
| Band2 | 3MHz      | 16QAM      | 19185   | 1RB#0            | 5.23       | 13        | PASS    |
| Band2 | 3MHz      | 16QAM      | 19185   | 15RB#0           | 6.09       | 13        | PASS    |
| Band2 | 5MHz      | QPSK       | 18625   | 1RB#0            | 4.03       | 13        | PASS    |
| Band2 | 5MHz      | QPSK       | 18625   | 25RB#0           | 5.27       | 13        | PASS    |
| Band2 | 5MHz      | QPSK       | 18900   | 1RB#0            | 4.80       | 13        | PASS    |
| Band2 | 5MHz      | QPSK       | 18900   | 25RB#0           | 5.42       | 13        | PASS    |
| Band2 | 5MHz      | QPSK       | 19175   | 1RB#0            | 4.52       | 13        | PASS    |
| Band2 | 5MHz      | QPSK       | 19175   | 25RB#0           | 5.36       | 13        | PASS    |
| Band2 | 5MHz      | 16QAM      | 18625   | 1RB#0            | 4.57       | 13        | PASS    |
| Band2 | 5MHz      | 16QAM      | 18625   | 25RB#0           | 5.95       | 13        | PASS    |
| Band2 | 5MHz      | 16QAM      | 18900   | 1RB#0            | 5.22       | 13        | PASS    |
| Band2 | 5MHz      | 16QAM      | 18900   | 25RB#0           | 6.05       | 13        | PASS    |
| Band2 | 5MHz      | 16QAM      | 19175   | 1RB#0            | 5.39       | 13        | PASS    |
| Band2 | 5MHz      | 16QAM      | 19175   | 25RB#0           | 6.03       | 13        | PASS    |
| Band2 | 10MHz     | QPSK       | 18650   | 1RB#0            | 3.93       | 13        | PASS    |
| Band2 | 10MHz     | QPSK       | 18650   | 50RB#0           | 5.25       | 13        | PASS    |
| Band2 | 10MHz     | QPSK       | 18900   | 1RB#0            | 4.85       | 13        | PASS    |
| Band2 | 10MHz     | QPSK       | 18900   | 50RB#0           | 5.36       | 13        | PASS    |
| Band2 | 10MHz     | QPSK       | 19150   | 1RB#0            | 4.88       | 13        | PASS    |
| Band2 | 10MHz     | QPSK       | 19150   | 50RB#0           | 5.28       | 13        | PASS    |
| Band2 | 10MHz     | 16QAM      | 18650   | 1RB#0            | 4.80       | 13        | PASS    |
| Band2 | 10MHz     | 16QAM      | 18650   | 50RB#0           | 6.05       | 13        | PASS    |
| Band2 | 10MHz     | 16QAM      | 18900   | 1RB#0            | 5.69       | 13        | PASS    |
| Band2 | 10MHz     | 16QAM      | 18900   | 50RB#0           | 6.14       | 13        | PASS    |
| Band2 | 10MHz     | 16QAM      | 19150   | 1RB#0            | 5.66       | 13        | PASS    |
| Band2 | 10MHz     | 16QAM      | 19150   | 50RB#0           | 6.09       | 13        | PASS    |
| Band2 | 15MHz     | QPSK       | 18675   | 1RB#0            | 4.01       | 13        | PASS    |
| Band2 | 15MHz     | QPSK       | 18675   | 75RB#0           | 5.61       | 13        | PASS    |
| Band2 | 15MHz     | QPSK       | 18900   | 1RB#0            | 4.85       | 13        | PASS    |
| Band2 | 15MHz     | QPSK       | 18900   | 75RB#0           | 5.61       | 13        | PASS    |
| Band2 | 15MHz     | QPSK       | 19125   | 1RB#0            | 4.95       | 13        | PASS    |
| Band2 | 15MHz     | QPSK       | 19125   | 75RB#0           | 5.49       | 13        | PASS    |
| Band2 | 15MHz     | 16QAM      | 18675   | 1RB#0            | 4.41       | 13        | PASS    |
| Band2 | 15MHz     | 16QAM      | 18675   | 75RB#0           | 6.17       | 13        | PASS    |
| Band2 | 15MHz     | 16QAM      | 18900   | 1RB#0            | 5.80       | 13        | PASS    |

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UTTR-RF-FCC4G-V1.1

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band2 | 15MHz     | 16QAM      | 18900   | 75RB#0           | 6.17       | 13        | PASS    |
| Band2 | 15MHz     | 16QAM      | 19125   | 1RB#0            | 6.01       | 13        | PASS    |
| Band2 | 15MHz     | 16QAM      | 19125   | 75RB#0           | 6.06       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 1RB#0            | 3.98       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 5.37       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 1RB#0            | 4.72       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0          | 5.33       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 1RB#0            | 4.73       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0          | 5.24       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 1RB#0            | 4.74       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0          | 6.17       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 1RB#0            | 5.50       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0          | 6.10       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 1RB#0            | 5.85       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0          | 6.09       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#0            | 3.82       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 4.98       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#0            | 3.93       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 4.85       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#0            | 3.97       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 4.82       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | 5.08       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 5.82       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#0            | 4.65       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 5.69       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#0            | 4.46       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 5.82       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 1RB#0            | 4.13       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 5.26       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 1RB#0            | 3.87       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 5.12       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 1RB#0            | 4.08       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 5.15       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 1RB#0            | 4.51       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 5.99       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 1RB#0            | 4.73       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 5.90       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 1RB#0            | 4.74       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 5.89       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 1RB#0            | 4.14       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 5.31       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 1RB#0            | 3.83       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 5.15       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 1RB#0            | 4.15       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 5.14       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 1RB#0            | 4.94       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 6.03       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 1RB#0            | 4.45       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 5.90       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 1RB#0            | 4.80       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 5.83       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 1RB#0            | 3.92       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 5.15       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 1RB#0            | 3.82       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 5.07       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 1RB#0            | 4.01       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 5.07       | 13        | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 1RB#0            | 4.42       | 13        | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | 5.97       | 13        | PASS    |
| Band4 | 10MHz     | 16QAM      | 20175   | 1RB#0            | 4.56       | 13        | PASS    |

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UTTR-RF-FCC4G-V1.1

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band4 | 10MHz     | 16QAM      | 20175   | 50RB#0           | 5.89       | 13        | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 1RB#0            | 4.76       | 13        | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 50RB#0           | 5.88       | 13        | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 1RB#0            | 3.87       | 13        | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | 5.34       | 13        | PASS    |
| Band4 | 15MHz     | QPSK       | 20175   | 1RB#0            | 3.87       | 13        | PASS    |
| Band4 | 15MHz     | QPSK       | 20175   | 75RB#0           | 5.34       | 13        | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 1RB#0            | 4.03       | 13        | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | 5.30       | 13        | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 1RB#0            | 4.98       | 13        | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 75RB#0           | 5.95       | 13        | PASS    |
| Band4 | 15MHz     | 16QAM      | 20175   | 1RB#0            | 4.99       | 13        | PASS    |
| Band4 | 15MHz     | 16QAM      | 20175   | 75RB#0           | 5.91       | 13        | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 1RB#0            | 4.45       | 13        | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 75RB#0           | 5.90       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 1RB#0            | 4.03       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | 4.99       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 1RB#0            | 3.83       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | 5.07       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 1RB#0            | 3.82       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | 5.01       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 1RB#0            | 4.83       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0          | 5.81       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 1RB#0            | 4.41       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0          | 5.85       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 1RB#0            | 4.74       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0          | 5.79       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 4.38       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 5.17       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 4.50       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 5.15       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 4.39       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 5.15       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 4.94       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 5.85       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 5.48       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 5.84       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 5.37       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 5.84       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | 4.40       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 5.30       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 1RB#0            | 4.63       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 5.38       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 1RB#0            | 4.60       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 5.34       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 1RB#0            | 5.12       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 6.03       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 1RB#0            | 5.23       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 6.09       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 1RB#0            | 5.14       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 6.11       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 1RB#0            | 4.33       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 5.36       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 1RB#0            | 4.72       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 5.35       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 1RB#0            | 4.32       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 5.34       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 1RB#0            | 4.98       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 6.08       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 1RB#0            | 5.37       | 13        | PASS    |

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| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 6.06       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 1RB#0            | 5.13       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | 6.10       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 1RB#0            | 4.43       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 5.28       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 1RB#0            | 4.84       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 5.32       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 1RB#0            | 4.24       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 5.02       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 1RB#0            | 5.18       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | 6.11       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 1RB#0            | 5.55       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0           | 6.08       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 1RB#0            | 5.05       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0           | 5.95       | 13        | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | 4.71       | 13        | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 5.62       | 13        | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0            | 4.97       | 13        | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 5.72       | 13        | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0            | 4.74       | 13        | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | 5.54       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#0            | 5.65       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | 6.34       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#0            | 5.60       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 6.44       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#0            | 5.40       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 25RB#0           | 6.26       | 13        | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 1RB#0            | 4.64       | 13        | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 50RB#0           | 5.50       | 13        | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 1RB#0            | 4.77       | 13        | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 50RB#0           | 5.62       | 13        | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 1RB#0            | 4.56       | 13        | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 50RB#0           | 5.44       | 13        | PASS    |
| Band7 | 10MHz     | 16QAM      | 20800   | 1RB#0            | 5.36       | 13        | PASS    |
| Band7 | 10MHz     | 16QAM      | 20800   | 50RB#0           | 6.36       | 13        | PASS    |
| Band7 | 10MHz     | 16QAM      | 21100   | 1RB#0            | 5.73       | 13        | PASS    |
| Band7 | 10MHz     | 16QAM      | 21100   | 50RB#0           | 6.39       | 13        | PASS    |
| Band7 | 10MHz     | 16QAM      | 21400   | 1RB#0            | 5.69       | 13        | PASS    |
| Band7 | 10MHz     | 16QAM      | 21400   | 50RB#0           | 6.28       | 13        | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 1RB#0            | 4.44       | 13        | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 75RB#0           | 5.70       | 13        | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 1RB#0            | 4.51       | 13        | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 75RB#0           | 5.88       | 13        | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 1RB#0            | 4.59       | 13        | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 75RB#0           | 5.73       | 13        | PASS    |
| Band7 | 15MHz     | 16QAM      | 20825   | 1RB#0            | 4.98       | 13        | PASS    |
| Band7 | 15MHz     | 16QAM      | 20825   | 75RB#0           | 6.29       | 13        | PASS    |
| Band7 | 15MHz     | 16QAM      | 21100   | 1RB#0            | 5.42       | 13        | PASS    |
| Band7 | 15MHz     | 16QAM      | 21100   | 75RB#0           | 6.45       | 13        | PASS    |
| Band7 | 15MHz     | 16QAM      | 21375   | 1RB#0            | 5.52       | 13        | PASS    |
| Band7 | 15MHz     | 16QAM      | 21375   | 75RB#0           | 6.29       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 1RB#0            | 4.50       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | 5.39       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 1RB#0            | 4.45       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 5.55       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 1RB#0            | 4.71       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | 5.47       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 1RB#0            | 5.45       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | 6.22       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 1RB#0            | 5.26       | 13        | PASS    |

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UTTR-RF-FCC4G-V1.1

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band7  | 20MHz     | 16QAM      | 21100   | 100RB#0          | 6.33       | 13        | PASS    |
| Band7  | 20MHz     | 16QAM      | 21350   | 1RB#0            | 5.86       | 13        | PASS    |
| Band7  | 20MHz     | 16QAM      | 21350   | 100RB#0          | 6.30       | 13        | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 2.86       | 13        | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 4.36       | 13        | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 4.24       | 13        | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 5.00       | 13        | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 3.61       | 13        | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 4.96       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 3.77       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 5.17       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 5.27       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 5.87       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 4.34       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 5.89       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 1RB#0            | 2.78       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 15RB#0           | 4.77       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23095   | 1RB#0            | 4.31       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23095   | 15RB#0           | 5.11       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 1RB#0            | 3.15       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 15RB#0           | 5.09       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 1RB#0            | 3.21       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 15RB#0           | 5.65       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23095   | 1RB#0            | 5.17       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23095   | 15RB#0           | 5.95       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 1RB#0            | 4.02       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 15RB#0           | 5.94       | 13        | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 1RB#0            | 2.84       | 13        | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 25RB#0           | 4.89       | 13        | PASS    |
| Band12 | 5MHz      | QPSK       | 23095   | 1RB#0            | 4.34       | 13        | PASS    |
| Band12 | 5MHz      | QPSK       | 23095   | 25RB#0           | 5.05       | 13        | PASS    |
| Band12 | 5MHz      | QPSK       | 23155   | 1RB#0            | 3.51       | 13        | PASS    |
| Band12 | 5MHz      | QPSK       | 23155   | 25RB#0           | 5.01       | 13        | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 1RB#0            | 3.65       | 13        | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 25RB#0           | 5.71       | 13        | PASS    |
| Band12 | 5MHz      | 16QAM      | 23095   | 1RB#0            | 5.35       | 13        | PASS    |
| Band12 | 5MHz      | 16QAM      | 23095   | 25RB#0           | 5.90       | 13        | PASS    |
| Band12 | 5MHz      | 16QAM      | 23155   | 1RB#0            | 4.25       | 13        | PASS    |
| Band12 | 5MHz      | 16QAM      | 23155   | 25RB#0           | 5.87       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23060   | 1RB#0            | 3.16       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 5.13       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 1RB#0            | 3.89       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | 5.07       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 1RB#0            | 4.29       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 4.83       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 1RB#0            | 3.84       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 5.96       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 1RB#0            | 5.02       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | 5.91       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 1RB#0            | 5.14       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 5.75       | 13        | PASS    |
| Band13 | 5MHz      | QPSK       | 23205   | 1RB#0            | 1.67       | 13        | PASS    |
| Band13 | 5MHz      | QPSK       | 23205   | 25RB#0           | 4.86       | 13        | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 1RB#0            | 3.74       | 13        | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 25RB#0           | 4.81       | 13        | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 1RB#0            | 3.70       | 13        | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 25RB#0           | 4.97       | 13        | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 1RB#0            | 2.25       | 13        | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 25RB#0           | 5.69       | 13        | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 1RB#0            | 4.35       | 13        | PASS    |

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UTTR-RF-FCC4G-V1.1

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band13 | 5MHz      | 16QAM      | 23230   | 25RB#0           | 5.67       | 13        | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 1RB#0            | 4.56       | 13        | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 25RB#0           | 5.76       | 13        | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 1RB#0            | 1.68       | 13        | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0           | 4.89       | 13        | PASS    |
| Band13 | 10MHz     | 16QAM      | 23230   | 1RB#0            | 2.83       | 13        | PASS    |
| Band13 | 10MHz     | 16QAM      | 23230   | 50RB#0           | 5.76       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 4.23       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 5.11       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 4.22       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 4.89       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 3.50       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 5.02       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 5.19       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 5.92       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 5.01       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 5.74       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 4.50       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 5.79       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | 4.13       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 4.91       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 1RB#0            | 4.24       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 4.85       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 1RB#0            | 4.26       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 4.84       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 1RB#0            | 5.00       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 5.81       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 1RB#0            | 5.14       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 5.76       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 1RB#0            | 5.13       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 5.76       | 13        | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#0            | 4.68       | 13        | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 25RB#0           | 5.71       | 13        | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#0            | 4.66       | 13        | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 25RB#0           | 5.58       | 13        | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#0            | 4.47       | 13        | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 25RB#0           | 5.52       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 1RB#0            | 5.46       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 25RB#0           | 6.27       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#0            | 5.15       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 25RB#0           | 6.30       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#0            | 4.78       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 25RB#0           | 6.03       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 1RB#0            | 4.87       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 50RB#0           | 5.58       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 38000   | 1RB#0            | 4.50       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 38000   | 50RB#0           | 5.43       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 38200   | 1RB#0            | 4.88       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 38200   | 50RB#0           | 5.44       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 1RB#0            | 5.24       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 50RB#0           | 6.34       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 38000   | 1RB#0            | 5.57       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 38000   | 50RB#0           | 6.05       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 38200   | 1RB#0            | 5.58       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 38200   | 50RB#0           | 6.19       | 13        | PASS    |
| Band38 | 15MHz     | QPSK       | 37825   | 1RB#0            | 4.65       | 13        | PASS    |
| Band38 | 15MHz     | QPSK       | 37825   | 75RB#0           | 5.80       | 13        | PASS    |
| Band38 | 15MHz     | QPSK       | 38000   | 1RB#0            | 4.94       | 13        | PASS    |
| Band38 | 15MHz     | QPSK       | 38000   | 75RB#0           | 5.66       | 13        | PASS    |
| Band38 | 15MHz     | QPSK       | 38175   | 1RB#0            | 4.92       | 13        | PASS    |

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| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band38 | 15MHz     | QPSK       | 38175   | 75RB#0           | 5.67       | 13        | PASS    |
| Band38 | 15MHz     | 16QAM      | 37825   | 1RB#0            | 5.70       | 13        | PASS    |
| Band38 | 15MHz     | 16QAM      | 37825   | 75RB#0           | 6.22       | 13        | PASS    |
| Band38 | 15MHz     | 16QAM      | 38000   | 1RB#0            | 5.64       | 13        | PASS    |
| Band38 | 15MHz     | 16QAM      | 38000   | 75RB#0           | 6.25       | 13        | PASS    |
| Band38 | 15MHz     | 16QAM      | 38175   | 1RB#0            | 5.29       | 13        | PASS    |
| Band38 | 15MHz     | 16QAM      | 38175   | 75RB#0           | 6.20       | 13        | PASS    |
| Band38 | 20MHz     | QPSK       | 37850   | 1RB#0            | 4.93       | 13        | PASS    |
| Band38 | 20MHz     | QPSK       | 37850   | 100RB#0          | 5.45       | 13        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 1RB#0            | 4.97       | 13        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0          | 5.41       | 13        | PASS    |
| Band38 | 20MHz     | QPSK       | 38150   | 1RB#0            | 4.59       | 13        | PASS    |
| Band38 | 20MHz     | QPSK       | 38150   | 100RB#0          | 5.26       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 37850   | 1RB#0            | 5.23       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 37850   | 100RB#0          | 6.31       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38000   | 1RB#0            | 5.27       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38000   | 100RB#0          | 6.05       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38150   | 1RB#0            | 4.94       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38150   | 100RB#0          | 6.09       | 13        | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1RB#0            | 3.82       | 13        | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 6RB#0            | 4.76       | 13        | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1RB#0            | 3.68       | 13        | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6RB#0            | 4.55       | 13        | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1RB#0            | 3.83       | 13        | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6RB#0            | 4.74       | 13        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1RB#0            | 4.99       | 13        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6RB#0            | 5.69       | 13        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1RB#0            | 4.24       | 13        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6RB#0            | 5.41       | 13        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 1RB#0            | 4.97       | 13        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6RB#0            | 5.56       | 13        | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 1RB#0            | 3.83       | 13        | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 15RB#0           | 4.91       | 13        | PASS    |
| Band66 | 3MHz      | QPSK       | 132322  | 1RB#0            | 3.63       | 13        | PASS    |
| Band66 | 3MHz      | QPSK       | 132322  | 15RB#0           | 4.85       | 13        | PASS    |
| Band66 | 3MHz      | QPSK       | 132657  | 1RB#0            | 3.95       | 13        | PASS    |
| Band66 | 3MHz      | QPSK       | 132657  | 15RB#0           | 4.99       | 13        | PASS    |
| Band66 | 3MHz      | 16QAM      | 131987  | 1RB#0            | 4.29       | 13        | PASS    |
| Band66 | 3MHz      | 16QAM      | 131987  | 15RB#0           | 5.83       | 13        | PASS    |
| Band66 | 3MHz      | 16QAM      | 132322  | 1RB#0            | 4.62       | 13        | PASS    |
| Band66 | 3MHz      | 16QAM      | 132322  | 15RB#0           | 5.68       | 13        | PASS    |
| Band66 | 3MHz      | 16QAM      | 132657  | 1RB#0            | 4.94       | 13        | PASS    |
| Band66 | 3MHz      | 16QAM      | 132657  | 15RB#0           | 5.74       | 13        | PASS    |
| Band66 | 5MHz      | QPSK       | 131997  | 1RB#0            | 3.94       | 13        | PASS    |
| Band66 | 5MHz      | QPSK       | 131997  | 25RB#0           | 4.94       | 13        | PASS    |
| Band66 | 5MHz      | QPSK       | 132322  | 1RB#0            | 3.74       | 13        | PASS    |
| Band66 | 5MHz      | QPSK       | 132322  | 25RB#0           | 4.84       | 13        | PASS    |
| Band66 | 5MHz      | QPSK       | 132647  | 1RB#0            | 3.86       | 13        | PASS    |
| Band66 | 5MHz      | QPSK       | 132647  | 25RB#0           | 4.94       | 13        | PASS    |
| Band66 | 5MHz      | 16QAM      | 131997  | 1RB#0            | 4.78       | 13        | PASS    |
| Band66 | 5MHz      | 16QAM      | 131997  | 25RB#0           | 5.77       | 13        | PASS    |
| Band66 | 5MHz      | 16QAM      | 132322  | 1RB#0            | 4.81       | 13        | PASS    |
| Band66 | 5MHz      | 16QAM      | 132322  | 25RB#0           | 5.64       | 13        | PASS    |
| Band66 | 5MHz      | 16QAM      | 132647  | 1RB#0            | 4.70       | 13        | PASS    |
| Band66 | 5MHz      | 16QAM      | 132647  | 25RB#0           | 5.71       | 13        | PASS    |
| Band66 | 10MHz     | QPSK       | 132022  | 1RB#0            | 3.74       | 13        | PASS    |
| Band66 | 10MHz     | QPSK       | 132022  | 50RB#0           | 4.84       | 13        | PASS    |
| Band66 | 10MHz     | QPSK       | 132322  | 1RB#0            | 3.70       | 13        | PASS    |
| Band66 | 10MHz     | QPSK       | 132322  | 50RB#0           | 4.77       | 13        | PASS    |
| Band66 | 10MHz     | QPSK       | 132622  | 1RB#0            | 3.71       | 13        | PASS    |

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| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band66 | 10MHz     | QPSK       | 132622  | 50RB#0           | 4.88       | 13        | PASS    |
| Band66 | 10MHz     | 16QAM      | 132022  | 1RB#0            | 4.12       | 13        | PASS    |
| Band66 | 10MHz     | 16QAM      | 132022  | 50RB#0           | 5.73       | 13        | PASS    |
| Band66 | 10MHz     | 16QAM      | 132322  | 1RB#0            | 4.48       | 13        | PASS    |
| Band66 | 10MHz     | 16QAM      | 132322  | 50RB#0           | 5.59       | 13        | PASS    |
| Band66 | 10MHz     | 16QAM      | 132622  | 1RB#0            | 4.52       | 13        | PASS    |
| Band66 | 10MHz     | 16QAM      | 132622  | 50RB#0           | 5.74       | 13        | PASS    |
| Band66 | 15MHz     | QPSK       | 132047  | 1RB#0            | 3.68       | 13        | PASS    |
| Band66 | 15MHz     | QPSK       | 132047  | 75RB#0           | 4.84       | 13        | PASS    |
| Band66 | 15MHz     | QPSK       | 132322  | 1RB#0            | 3.63       | 13        | PASS    |
| Band66 | 15MHz     | QPSK       | 132322  | 75RB#0           | 4.84       | 13        | PASS    |
| Band66 | 15MHz     | QPSK       | 132597  | 1RB#0            | 3.54       | 13        | PASS    |
| Band66 | 15MHz     | QPSK       | 132597  | 75RB#0           | 4.94       | 13        | PASS    |
| Band66 | 15MHz     | 16QAM      | 132047  | 1RB#0            | 4.28       | 13        | PASS    |
| Band66 | 15MHz     | 16QAM      | 132047  | 75RB#0           | 5.64       | 13        | PASS    |
| Band66 | 15MHz     | 16QAM      | 132322  | 1RB#0            | 4.47       | 13        | PASS    |
| Band66 | 15MHz     | 16QAM      | 132322  | 75RB#0           | 5.63       | 13        | PASS    |
| Band66 | 15MHz     | 16QAM      | 132597  | 1RB#0            | 4.66       | 13        | PASS    |
| Band66 | 15MHz     | 16QAM      | 132597  | 75RB#0           | 5.72       | 13        | PASS    |
| Band66 | 20MHz     | QPSK       | 132072  | 1RB#0            | 3.78       | 13        | PASS    |
| Band66 | 20MHz     | QPSK       | 132072  | 100RB#0          | 4.63       | 13        | PASS    |
| Band66 | 20MHz     | QPSK       | 132322  | 1RB#0            | 3.55       | 13        | PASS    |
| Band66 | 20MHz     | QPSK       | 132322  | 100RB#0          | 4.68       | 13        | PASS    |
| Band66 | 20MHz     | QPSK       | 132572  | 1RB#0            | 3.43       | 13        | PASS    |
| Band66 | 20MHz     | QPSK       | 132572  | 100RB#0          | 4.83       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132072  | 1RB#0            | 4.68       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132072  | 100RB#0          | 5.50       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132322  | 1RB#0            | 3.97       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132322  | 100RB#0          | 5.53       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132572  | 1RB#0            | 4.59       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132572  | 100RB#0          | 5.66       | 13        | PASS    |

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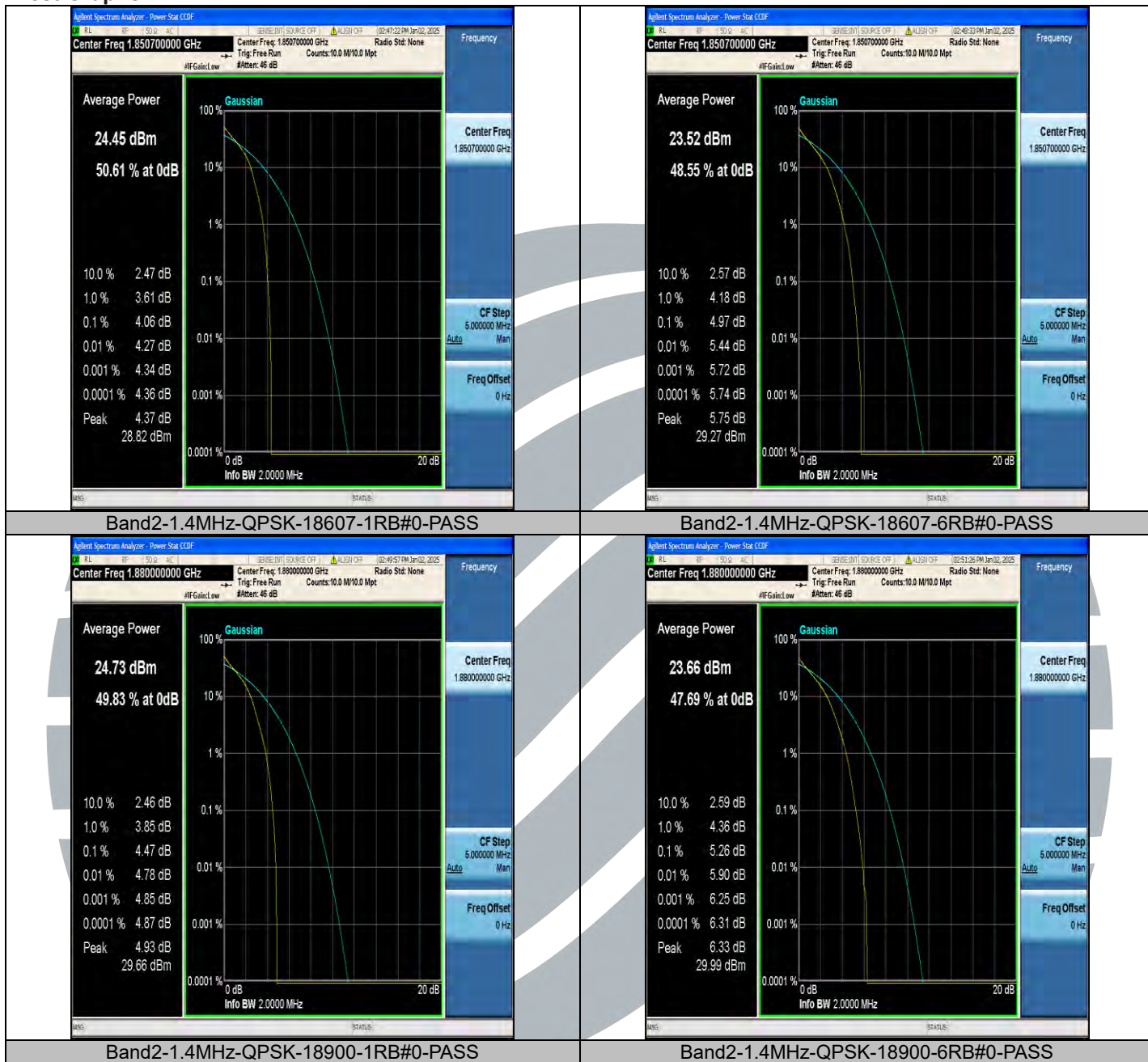
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UTTR-RF-FCC4G-V1.1

## Test Graphs



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