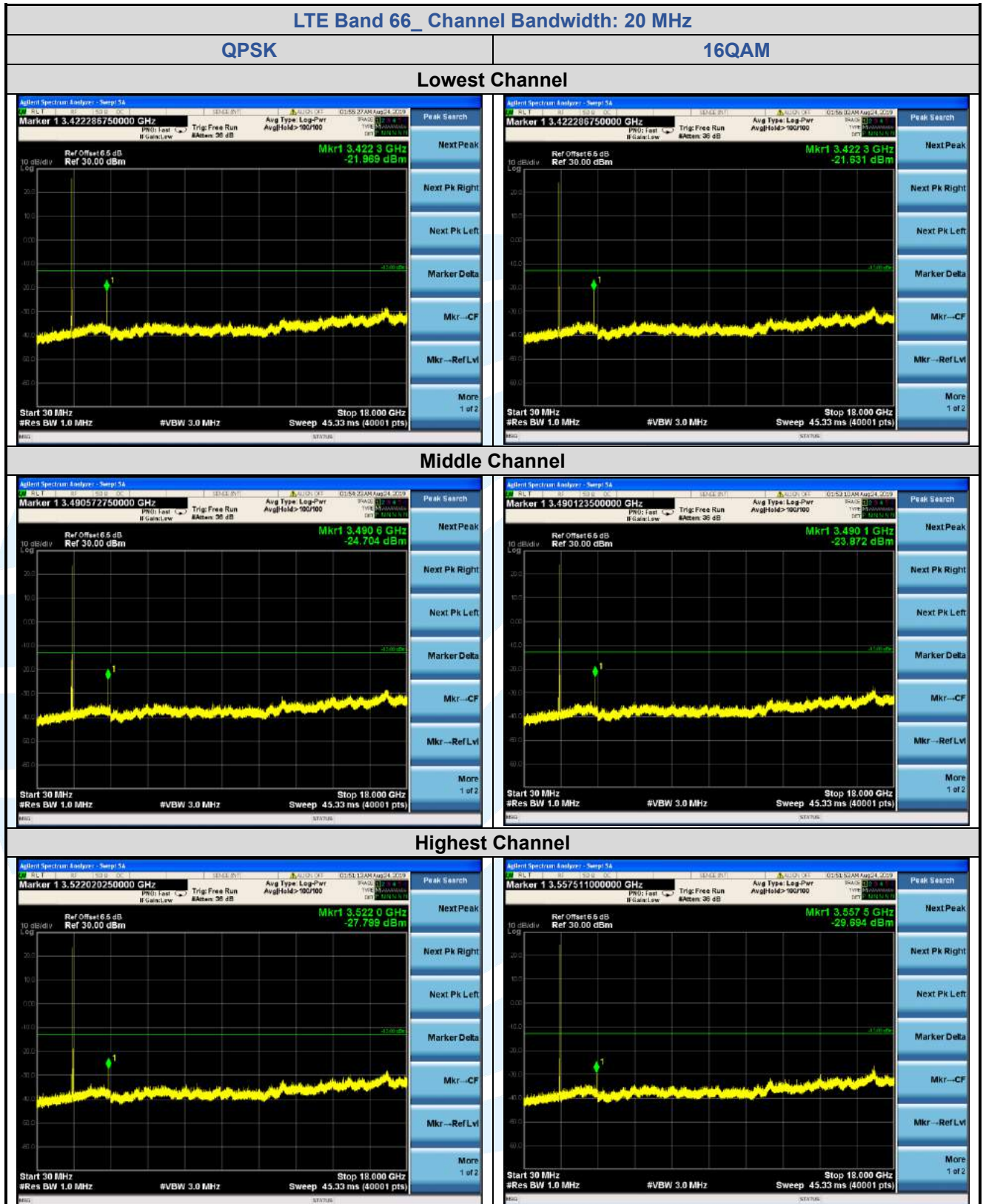
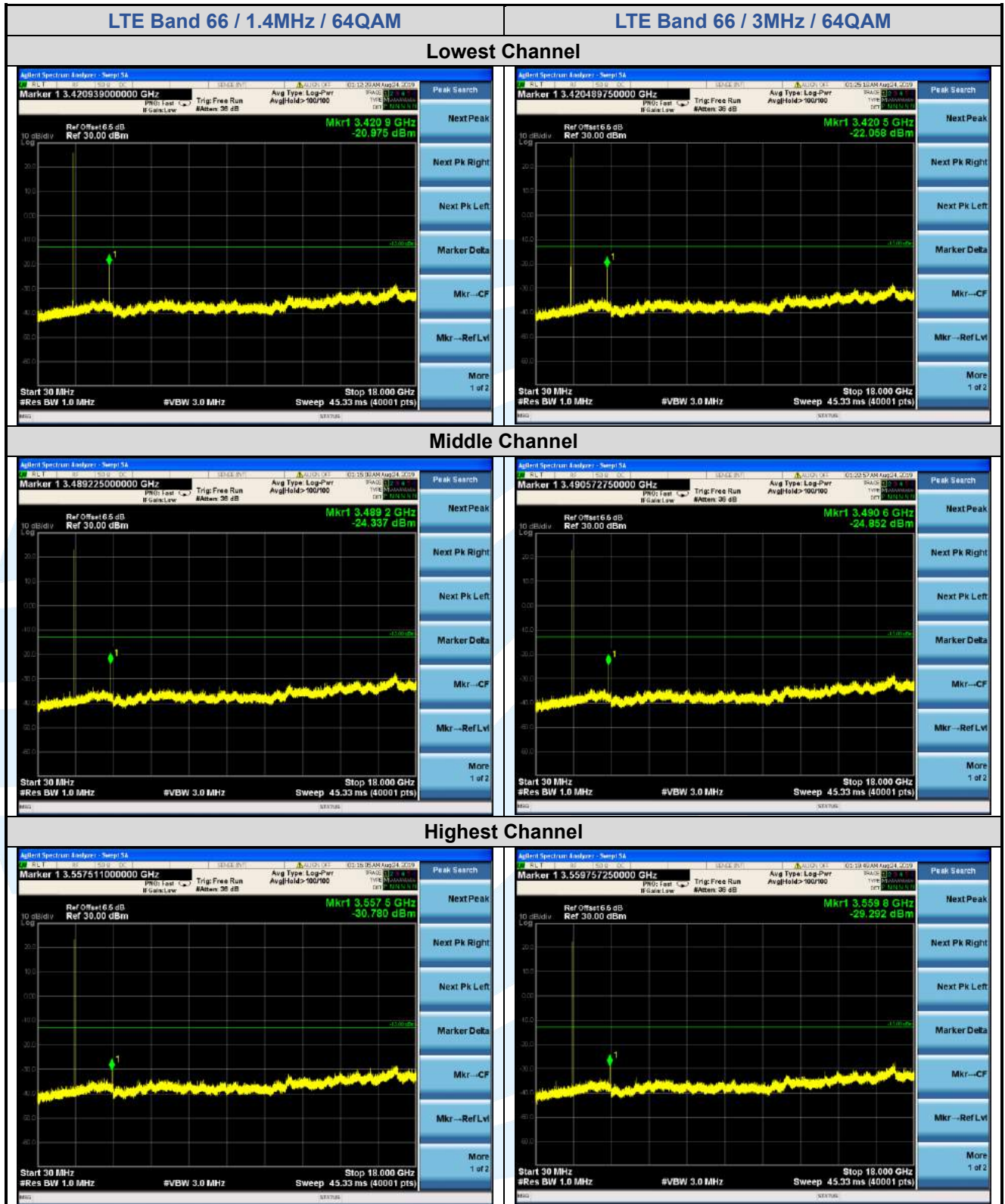
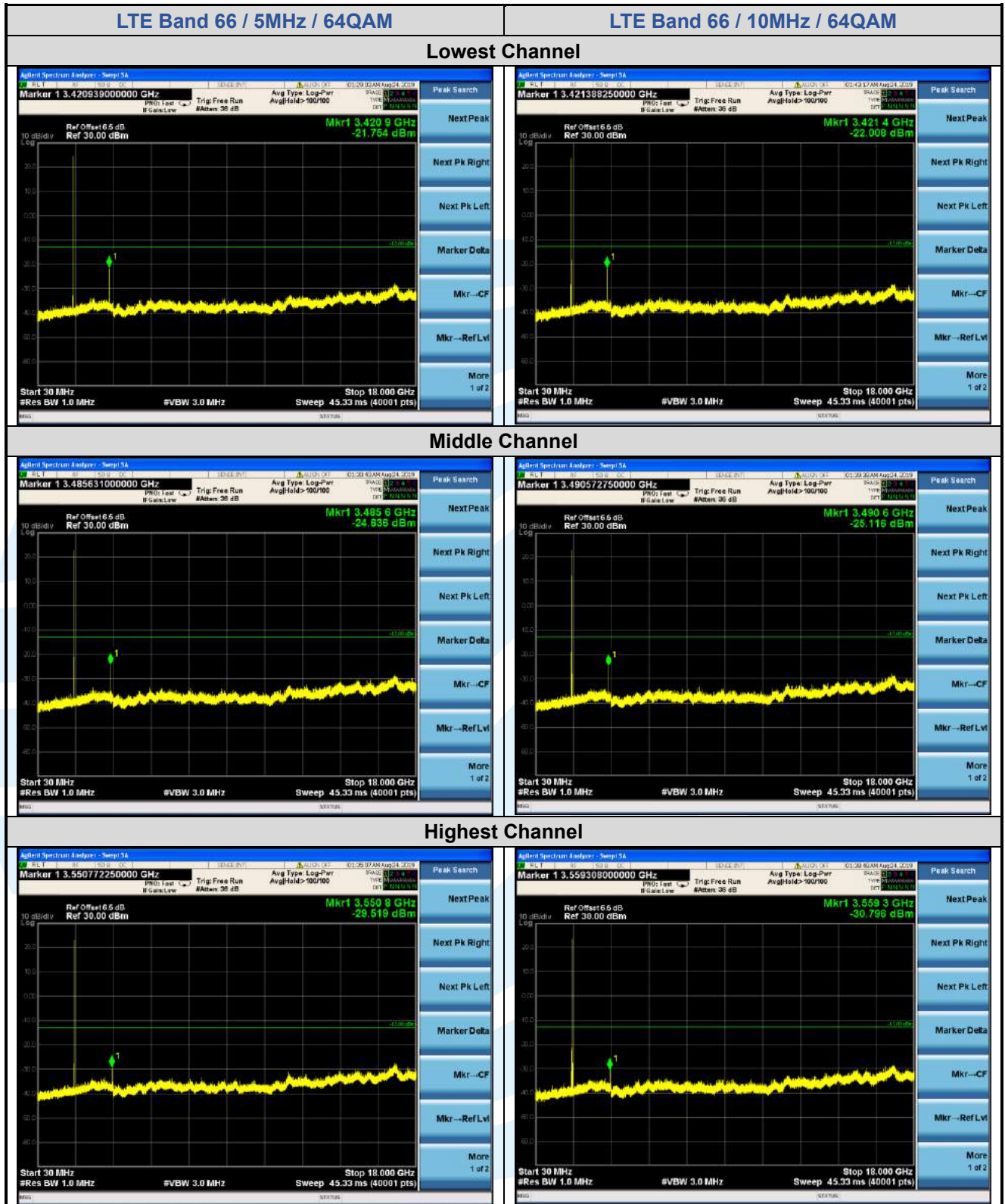
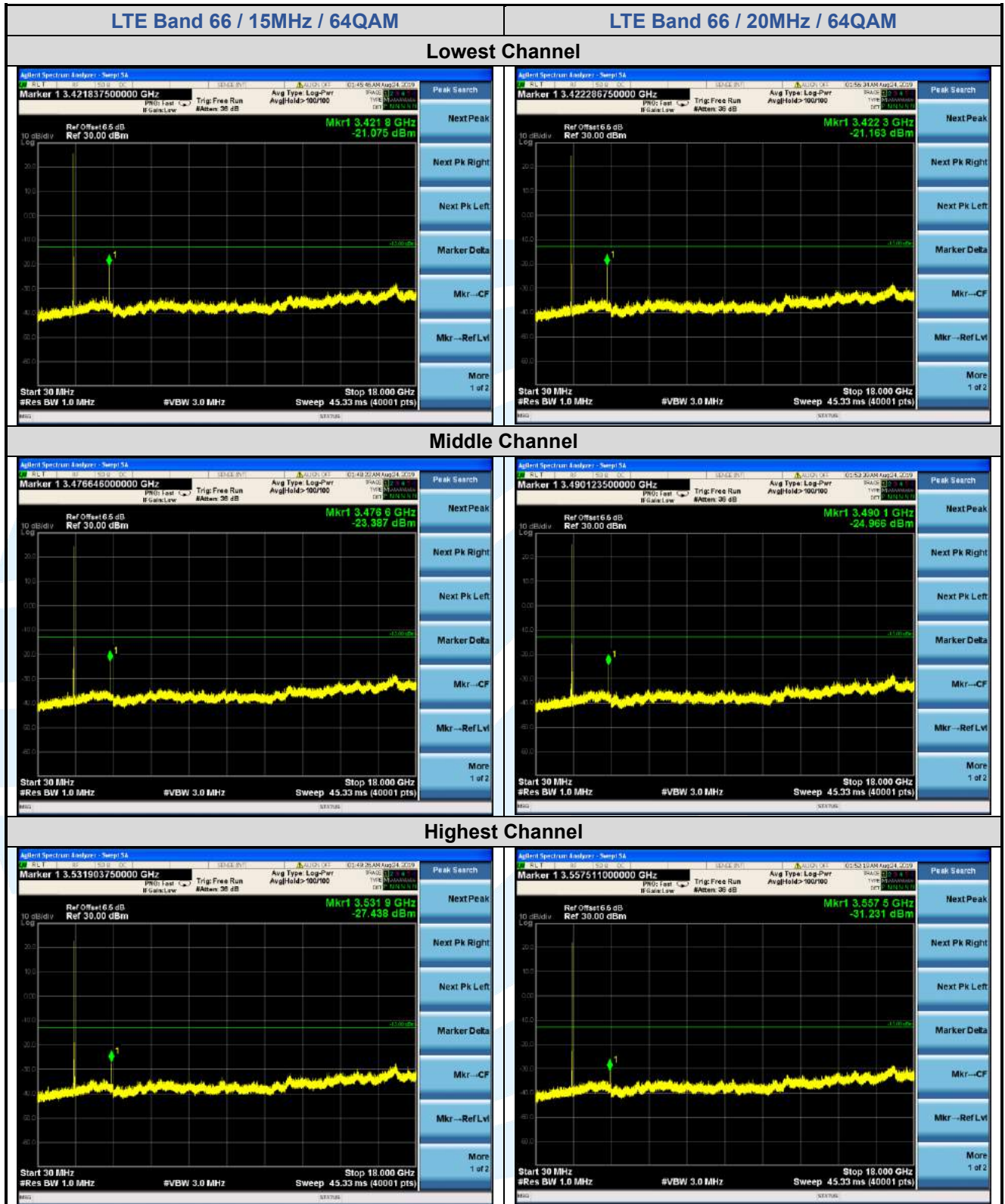


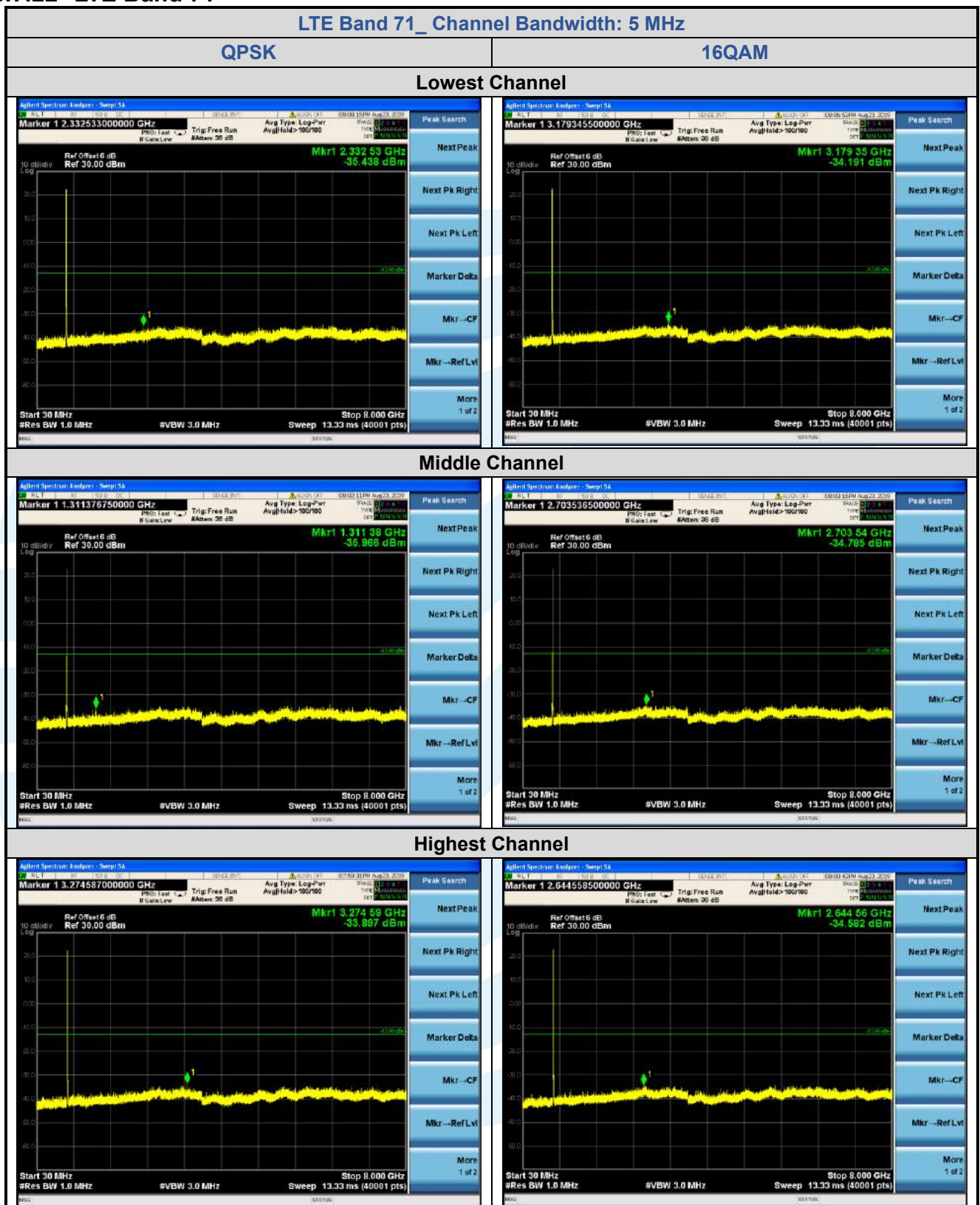


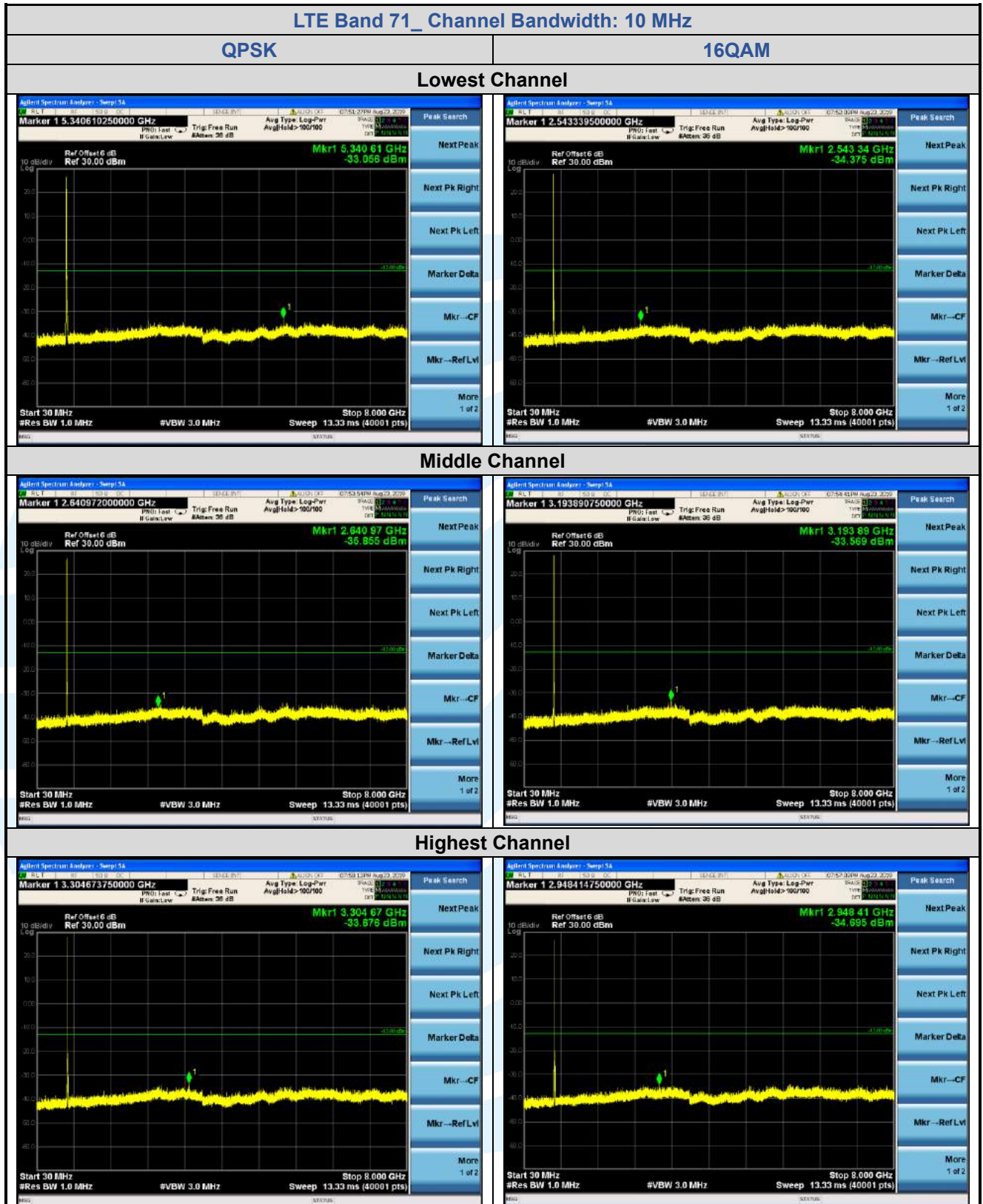


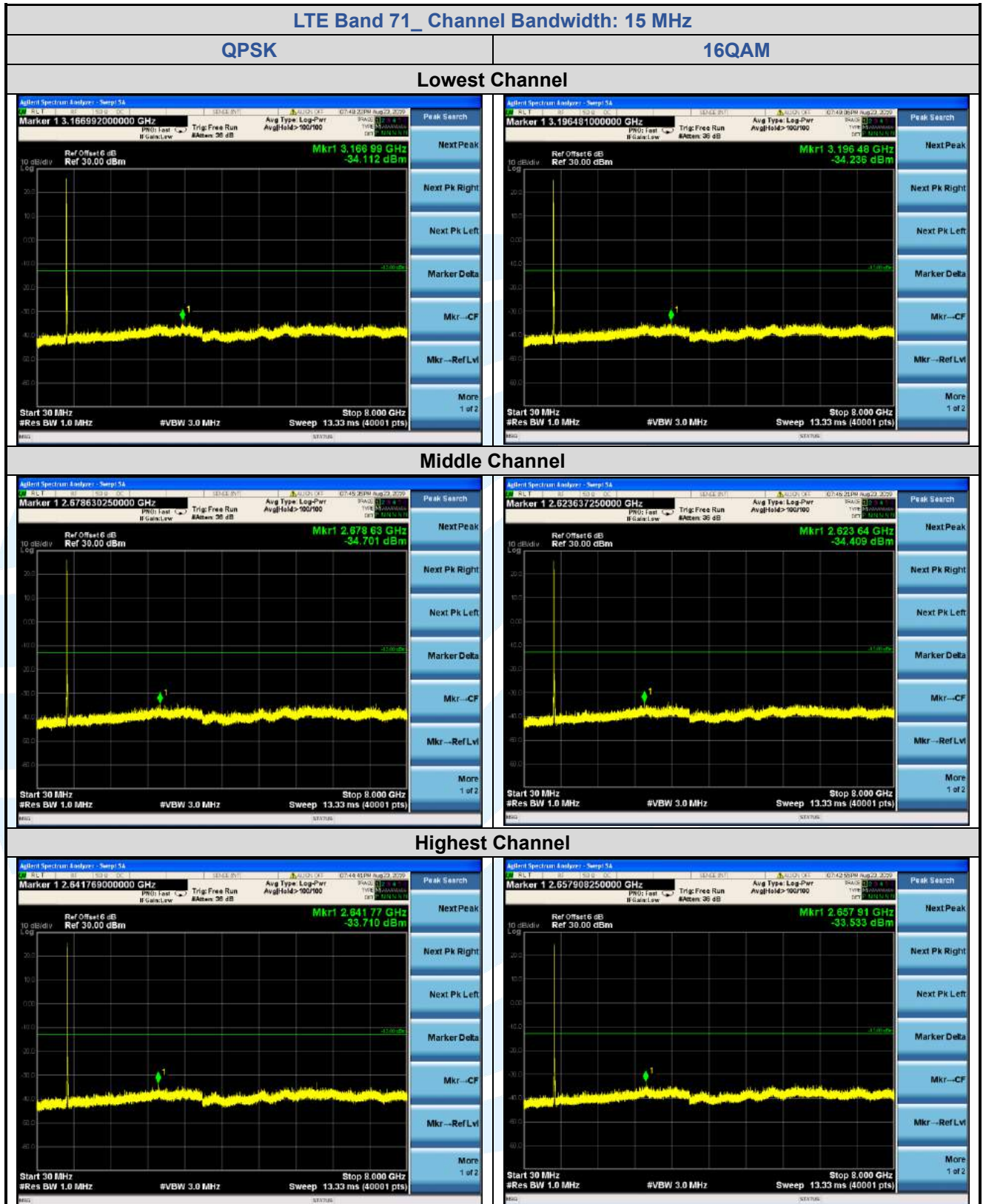


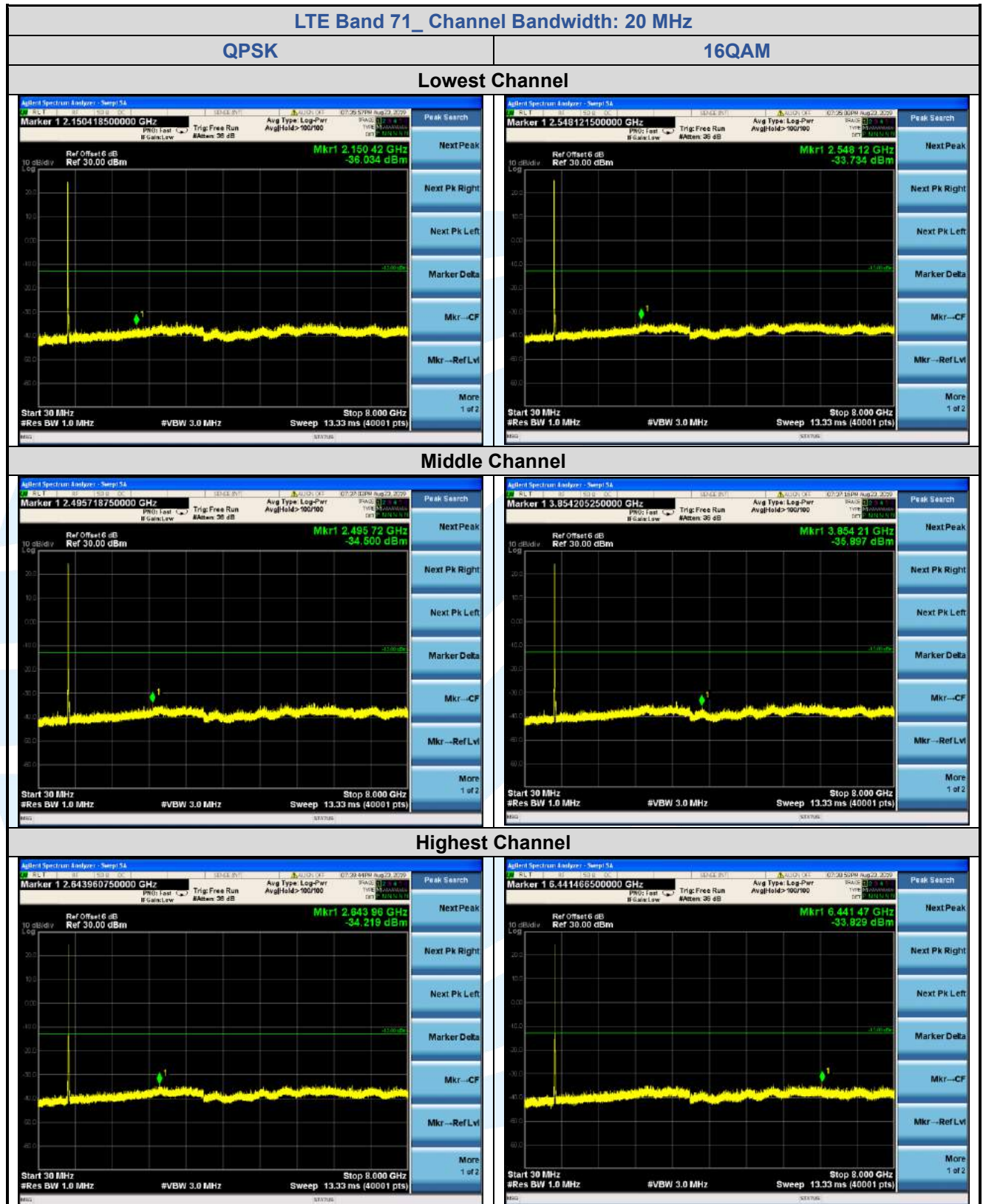


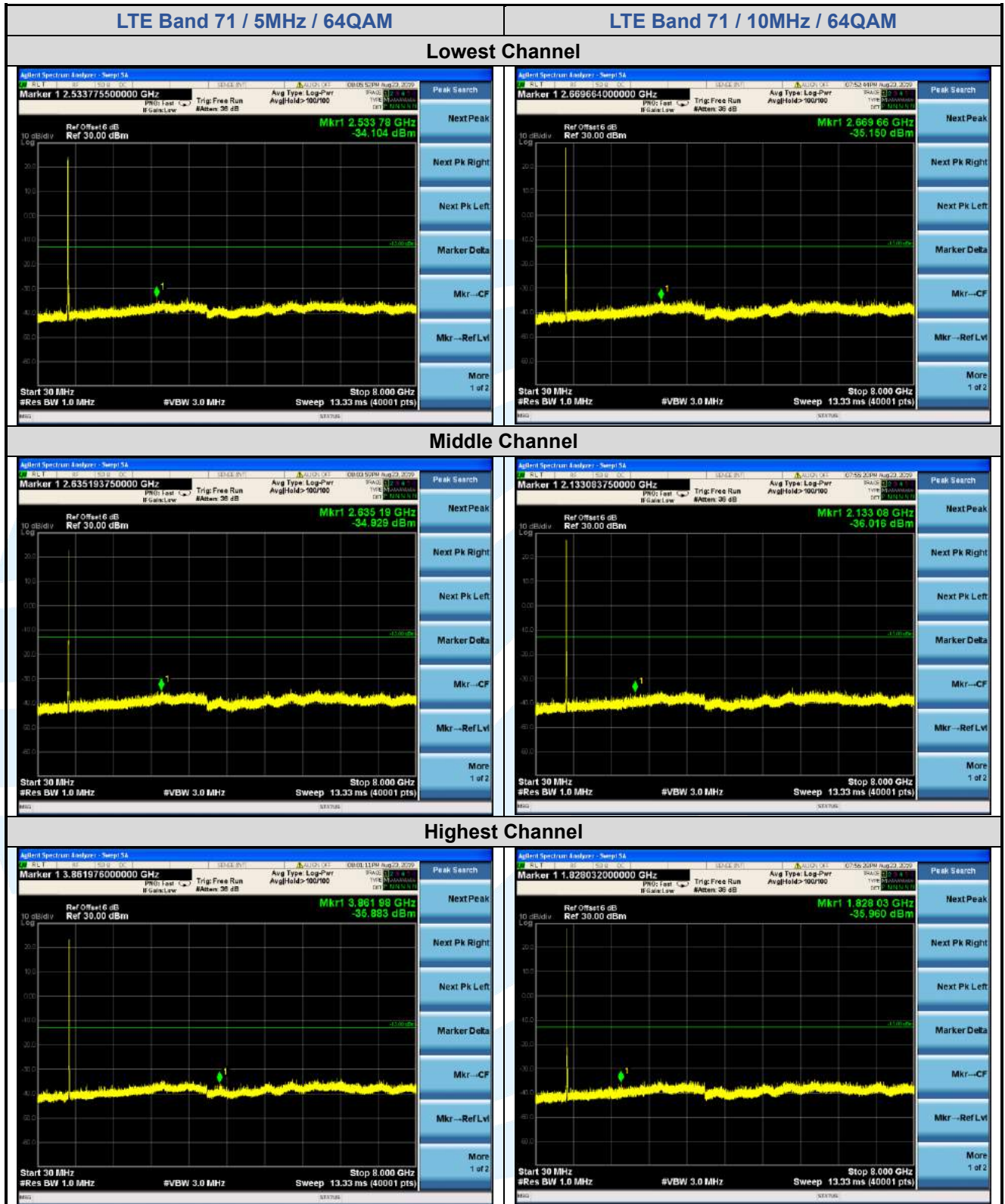
### 5.7.11 LTE Band 71

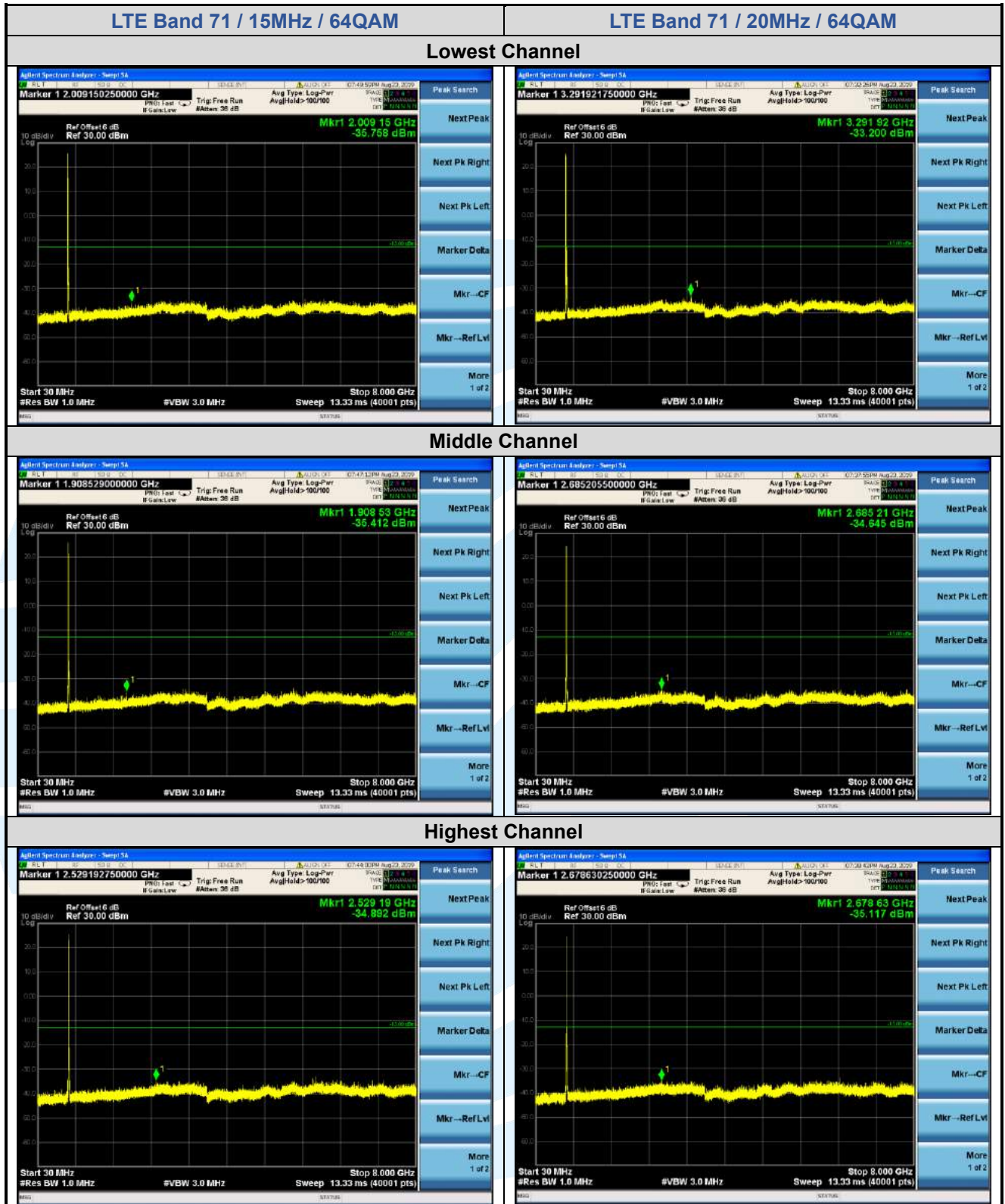












## 5.8 FIELD STRENGTH OF SPURIOUS RADIATION

**Test Requirement:** LTE Band 2 & LTE Band 25: FCC 47 CFR Part 24.238(a)  
LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)  
LTE Band 5 & LTE Band 26: FCC 47 CFR Part 22.917(a)  
LTE Band 7 & Band 41: FCC 47 CFR Part 27.53(m)(4)  
LTE Band 12 & Band 17 & Band 71: FCC 47 CFR Part 27.53(g)

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

**Receiver Setup:**

| Frequency        | Detector   | RBW     | VBW     | Remark |
|------------------|------------|---------|---------|--------|
| 0.009 MHz-30 MHz | Peak       | 10 kHz  | 30 KHz  | Peak   |
| 30 MHz-1 GHz     | Quasi-peak | 100 kHz | 300 KHz | Peak   |
| Above 1 GHz      | Peak       | 1 MHz   | 3 MHz   | Peak   |

**Limits:**

**FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g), 27.53(c)(2),:**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to -13 dBm.

**FCC 47 CFR Part 27.53(m)(4):**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $55 + 10 \log(P)$  dB. The emission limit equal to -25 dBm.

**FCC 47 CFR Part 27.53:**

(c) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

**Test Setup:** Refer to section 4.2.1 for details.

**Test Procedures:** KDB 971168 D01v03r01 Section 7

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

**Test Result:** Pass

**The measurement data as follows:**

### 5.8.1 LTE Band 2

| LTE Band 2_ 20 MHz_ QPSK_ (30 MHz to 1 GHz) |           |            |                   |             |        |        |            |
|---------------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                         | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                             | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 240.144   | -61.25     | 1.06              | -60.19      | -13.00 | -47.19 | Horizontal |
| 2                                           | 366.087   | -67.00     | 3.66              | -63.34      | -13.00 | -50.34 | Horizontal |
| 3                                           | 965.474   | -77.60     | 15.50             | -62.10      | -13.00 | -49.10 | Horizontal |
| 4                                           | 40.017    | -62.72     | -0.77             | -63.49      | -13.00 | -50.49 | Vertical   |
| 5                                           | 52.266    | -64.29     | -3.79             | -68.08      | -13.00 | -55.08 | Vertical   |
| 6                                           | 220.724   | -65.08     | -0.31             | -65.39      | -13.00 | -52.39 | Vertical   |
| Middle Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 40.017    | -66.69     | -0.77             | -67.46      | -13.00 | -54.46 | Horizontal |
| 2                                           | 250.486   | -59.81     | 1.04              | -58.77      | -13.00 | -45.77 | Horizontal |
| 3                                           | 366.087   | -63.09     | 3.66              | -59.43      | -13.00 | -46.43 | Horizontal |
| 4                                           | 39.737    | -62.10     | -0.64             | -62.74      | -13.00 | -49.74 | Vertical   |
| 5                                           | 401.105   | -59.77     | 4.65              | -55.12      | -13.00 | -42.12 | Vertical   |
| 6                                           | 498.730   | -61.92     | 6.07              | -55.85      | -13.00 | -42.85 | Vertical   |
| Highest Channel                             |           |            |                   |             |        |        |            |
| 1                                           | 40.017    | -74.43     | -0.77             | -75.20      | -13.00 | -62.20 | Horizontal |
| 2                                           | 240.144   | -57.22     | 1.06              | -56.16      | -13.00 | -43.16 | Horizontal |
| 3                                           | 368.668   | -60.78     | 3.65              | -57.13      | -13.00 | -44.13 | Horizontal |
| 4                                           | 40.299    | -63.63     | -0.84             | -64.47      | -13.00 | -51.47 | Vertical   |
| 5                                           | 159.759   | -66.24     | -0.87             | -67.11      | -13.00 | -54.11 | Vertical   |
| 6                                           | 219.179   | -62.23     | -0.38             | -62.61      | -13.00 | -49.61 | Vertical   |

| LTE Band 2_ 20 MHz_ QPSK_(Above 1GHz) |           |            |                   |             |        |        |            |
|---------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                   | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                       | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                        |           |            |                   |             |        |        |            |
| 1                                     | 3720.000  | -53.89     | 13.80             | -40.09      | -13.00 | -27.09 | Horizontal |
| 2                                     | 5580.000  | -42.65     | 15.98             | -26.67      | -13.00 | -13.67 | Horizontal |
| 3                                     | 3720.000  | -47.58     | 15.18             | -32.40      | -13.00 | -19.40 | Vertical   |
| 4                                     | 5580.000  | -43.25     | 16.87             | -26.38      | -13.00 | -13.38 | Vertical   |
| Middle Channel                        |           |            |                   |             |        |        |            |
| 1                                     | 3760.000  | -49.30     | 13.87             | -35.43      | -13.00 | -22.43 | Horizontal |
| 2                                     | 7520.000  | -46.44     | 19.09             | -27.35      | -13.00 | -14.35 | Horizontal |
| 3                                     | 3760.000  | -48.43     | 15.28             | -33.15      | -13.00 | -20.15 | Vertical   |
| 4                                     | 7520.000  | -44.99     | 18.48             | -26.51      | -13.00 | -13.51 | Vertical   |
| Highest Channel                       |           |            |                   |             |        |        |            |
| 1                                     | 3800.000  | -47.22     | 13.95             | -33.27      | -13.00 | -20.27 | Horizontal |
| 2                                     | 7600.000  | -52.60     | 19.09             | -33.51      | -13.00 | -20.51 | Horizontal |
| 3                                     | 3800.000  | -49.76     | 15.39             | -34.37      | -13.00 | -21.37 | Vertical   |
| 4                                     | 7600.000  | -49.41     | 18.47             | -30.94      | -13.00 | -17.94 | Vertical   |

### 5.8.2 LTE Band 4

| LTE Band 4_ 20 MHz_ QPSK_ (30 MHz to 1 GHz) |           |            |                   |             |        |        |            |
|---------------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                         | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                             | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 159.759   | -65.45     | -0.87             | -66.32      | -13.00 | -53.32 | Horizontal |
| 2                                           | 220.724   | -58.07     | -0.31             | -58.38      | -13.00 | -45.38 | Horizontal |
| 3                                           | 368.668   | -64.69     | 3.65              | -61.04      | -13.00 | -48.04 | Horizontal |
| 4                                           | 39.737    | -62.71     | -0.64             | -63.35      | -13.00 | -50.35 | Vertical   |
| 5                                           | 220.724   | -66.54     | -0.31             | -66.85      | -13.00 | -53.85 | Vertical   |
| 6                                           | 401.105   | -57.71     | 4.65              | -53.06      | -13.00 | -40.06 | Vertical   |
| Middle Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 51.900    | -69.58     | -3.73             | -73.31      | -13.00 | -60.31 | Horizontal |
| 2                                           | 240.144   | -61.88     | 1.06              | -60.82      | -13.00 | -47.82 | Horizontal |
| 3                                           | 360.977   | -64.98     | 3.68              | -61.30      | -13.00 | -48.30 | Horizontal |
| 4                                           | 39.737    | -64.29     | -0.64             | -64.93      | -13.00 | -51.93 | Vertical   |
| 5                                           | 51.900    | -63.98     | -3.73             | -67.71      | -13.00 | -54.71 | Vertical   |
| 6                                           | 240.144   | -65.74     | 1.06              | -64.68      | -13.00 | -51.68 | Vertical   |
| Highest Channel                             |           |            |                   |             |        |        |            |
| 1                                           | 159.759   | -62.76     | -0.87             | -63.63      | -13.00 | -50.63 | Horizontal |
| 2                                           | 240.144   | -61.65     | 1.06              | -60.59      | -13.00 | -47.59 | Horizontal |
| 3                                           | 366.087   | -67.68     | 3.66              | -64.02      | -13.00 | -51.02 | Horizontal |
| 4                                           | 40.299    | -62.04     | -0.84             | -62.88      | -13.00 | -49.88 | Vertical   |
| 5                                           | 233.488   | -69.26     | 0.47              | -68.79      | -13.00 | -55.79 | Vertical   |
| 6                                           | 401.105   | -59.50     | 4.65              | -54.85      | -13.00 | -41.85 | Vertical   |

| LTE Band 4_ 20 MHz_ QPSK_(Above 1GHz) |           |            |                   |             |        |        |            |
|---------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                   | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                       | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                        |           |            |                   |             |        |        |            |
| 1                                     | 6880.000  | -47.45     | 18.43             | -29.02      | -13.00 | -16.02 | Horizontal |
| 2                                     | 8600.000  | -54.28     | 19.71             | -34.57      | -13.00 | -21.57 | Horizontal |
| 3                                     | 6880.000  | -44.05     | 18.25             | -25.80      | -13.00 | -12.80 | Vertical   |
| 4                                     | 8600.000  | -47.99     | 18.99             | -29.00      | -13.00 | -16.00 | Vertical   |
| Middle Channel                        |           |            |                   |             |        |        |            |
| 1                                     | 5197.500  | -53.00     | 16.21             | -36.79      | -13.00 | -23.79 | Horizontal |
| 2                                     | 6930.000  | -49.23     | 18.33             | -30.90      | -13.00 | -17.90 | Horizontal |
| 3                                     | 5197.500  | -48.56     | 17.17             | -31.39      | -13.00 | -18.39 | Vertical   |
| 4                                     | 6930.000  | -39.55     | 18.10             | -21.45      | -13.00 | -8.45  | Vertical   |
| Highest Channel                       |           |            |                   |             |        |        |            |
| 1                                     | 6980.000  | -49.45     | 18.22             | -31.23      | -13.00 | -18.23 | Horizontal |
| 2                                     | 8725.000  | -58.69     | 19.87             | -38.82      | -13.00 | -25.82 | Horizontal |
| 3                                     | 6980.000  | -39.66     | 17.94             | -21.72      | -13.00 | -8.72  | Vertical   |
| 4                                     | 8725.000  | -54.16     | 19.13             | -35.03      | -13.00 | -22.03 | Vertical   |

### 5.8.3 LTE Band 5

| LTE Band 5_ 10 MHz_ QPSK_ (30 MHz to 1 GHz) |           |            |                   |             |        |        |            |
|---------------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                         | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                             | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 159.759   | -86.23     | 27.62             | -58.61      | -13.00 | -45.61 | Horizontal |
| 2                                           | 214.606   | -82.18     | 27.70             | -54.48      | -13.00 | -41.48 | Horizontal |
| 3                                           | 368.668   | -86.75     | 32.10             | -54.65      | -13.00 | -41.65 | Horizontal |
| 4                                           | 39.737    | -89.61     | 28.19             | -61.42      | -13.00 | -48.42 | Vertical   |
| 5                                           | 292.364   | -88.88     | 30.51             | -58.37      | -13.00 | -45.37 | Vertical   |
| 6                                           | 498.730   | -88.02     | 35.36             | -52.66      | -13.00 | -39.66 | Vertical   |
| Middle Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 39.459    | -90.47     | 28.33             | -62.14      | -13.00 | -49.14 | Horizontal |
| 2                                           | 175.040   | -88.87     | 27.80             | -61.07      | -13.00 | -48.07 | Horizontal |
| 3                                           | 679.435   | -87.99     | 38.76             | -49.23      | -13.00 | -36.23 | Horizontal |
| 4                                           | 52.266    | -89.68     | 25.02             | -64.66      | -13.00 | -51.66 | Vertical   |
| 5                                           | 266.839   | -89.66     | 29.96             | -59.70      | -13.00 | -46.70 | Vertical   |
| 6                                           | 660.602   | -89.19     | 38.35             | -50.84      | -13.00 | -37.84 | Vertical   |
| Highest Channel                             |           |            |                   |             |        |        |            |
| 1                                           | 38.096    | -93.24     | 28.99             | -64.25      | -13.00 | -51.25 | Horizontal |
| 2                                           | 182.578   | -90.67     | 28.03             | -62.64      | -13.00 | -49.64 | Horizontal |
| 3                                           | 744.427   | -88.89     | 39.39             | -49.50      | -13.00 | -36.50 | Horizontal |
| 4                                           | 33.807    | -92.61     | 31.46             | -61.15      | -13.00 | -48.15 | Vertical   |
| 5                                           | 246.990   | -88.07     | 29.24             | -58.83      | -13.00 | -45.83 | Vertical   |
| 6                                           | 669.952   | -88.84     | 38.46             | -50.38      | -13.00 | -37.38 | Vertical   |

| LTE Band 5_ 10 MHz_ QPSK_(Above 1GHz) |           |            |                   |             |        |        |            |
|---------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                   | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                       | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                        |           |            |                   |             |        |        |            |
| 1                                     | 1658.000  | -55.95     | 2.47              | -53.48      | -13.00 | -40.48 | Horizontal |
| 2                                     | 2487.000  | -65.49     | 9.16              | -56.33      | -13.00 | -43.33 | Horizontal |
| 3                                     | 1658.000  | -66.60     | 4.14              | -62.46      | -13.00 | -49.46 | Vertical   |
| 4                                     | 2487.000  | -71.32     | 11.48             | -59.84      | -13.00 | -46.84 | Vertical   |
| Middle Channel                        |           |            |                   |             |        |        |            |
| 1                                     | 1673.000  | -61.00     | 2.59              | -58.41      | -13.00 | -45.41 | Horizontal |
| 2                                     | 2509.500  | -71.58     | 9.17              | -62.41      | -13.00 | -49.41 | Horizontal |
| 3                                     | 1673.000  | -67.81     | 4.31              | -63.50      | -13.00 | -50.50 | Vertical   |
| 4                                     | 2509.500  | -67.87     | 11.46             | -56.41      | -13.00 | -43.41 | Vertical   |
| Highest Channel                       |           |            |                   |             |        |        |            |
| 1                                     | 1688.000  | -51.97     | 2.71              | -49.26      | -13.00 | -36.26 | Horizontal |
| 2                                     | 2532.000  | -63.22     | 9.21              | -54.01      | -13.00 | -41.01 | Horizontal |
| 3                                     | 1688.000  | -58.56     | 4.49              | -54.07      | -13.00 | -41.07 | Vertical   |
| 4                                     | 2532.000  | -67.03     | 11.46             | -55.57      | -13.00 | -42.57 | Vertical   |

### 5.8.4 LTE Band 7

| LTE Band 7_ 20 MHz_ QPSK_ (30 MHz to 1 GHz) |           |            |                   |             |        |        |            |
|---------------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                         | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                             | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 159.759   | -60.38     | -0.87             | -61.25      | -25.00 | -36.25 | Horizontal |
| 2                                           | 240.144   | -54.13     | 1.06              | -53.07      | -25.00 | -28.07 | Horizontal |
| 3                                           | 360.977   | -60.93     | 3.68              | -57.25      | -25.00 | -32.25 | Horizontal |
| 4                                           | 40.299    | -63.12     | -0.84             | -63.96      | -25.00 | -38.96 | Vertical   |
| 5                                           | 120.612   | -64.96     | -2.14             | -67.10      | -25.00 | -42.10 | Vertical   |
| 6                                           | 240.144   | -69.78     | 1.06              | -68.72      | -25.00 | -43.72 | Vertical   |
| Middle Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 51.900    | -70.26     | -3.73             | -73.99      | -25.00 | -48.99 | Horizontal |
| 2                                           | 240.144   | -61.04     | 1.06              | -59.98      | -25.00 | -34.98 | Horizontal |
| 3                                           | 433.340   | -68.14     | 5.17              | -62.97      | -25.00 | -37.97 | Horizontal |
| 4                                           | 40.017    | -62.75     | -0.77             | -63.52      | -25.00 | -38.52 | Vertical   |
| 5                                           | 51.536    | -63.64     | -3.75             | -67.39      | -25.00 | -42.39 | Vertical   |
| 6                                           | 502.247   | -68.79     | 6.06              | -62.73      | -25.00 | -37.73 | Vertical   |
| Highest Channel                             |           |            |                   |             |        |        |            |
| 1                                           | 220.724   | -58.60     | -0.31             | -58.91      | -25.00 | -33.91 | Horizontal |
| 2                                           | 360.977   | -62.70     | 3.68              | -59.02      | -25.00 | -34.02 | Horizontal |
| 3                                           | 703.731   | -70.05     | 9.84              | -60.21      | -25.00 | -35.21 | Horizontal |
| 4                                           | 39.459    | -61.62     | -0.50             | -62.12      | -25.00 | -37.12 | Vertical   |
| 5                                           | 217.644   | -67.34     | -0.45             | -67.79      | -25.00 | -42.79 | Vertical   |
| 6                                           | 401.105   | -61.65     | 4.65              | -57.00      | -25.00 | -32.00 | Vertical   |

| LTE Band 7_ 20 MHz_ QPSK_(Above 1GHz) |           |            |                   |             |        |        |            |
|---------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                   | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                       | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                        |           |            |                   |             |        |        |            |
| 1                                     | 5020.000  | -43.41     | 15.89             | -27.52      | -25.00 | -2.52  | Horizontal |
| 2                                     | 7530.000  | -45.07     | 19.08             | -25.99      | -25.00 | -0.99  | Horizontal |
| 3                                     | 5020.000  | -43.04     | 16.89             | -26.15      | -25.00 | -1.15  | Vertical   |
| 4                                     | 7530.000  | -43.96     | 18.48             | -25.48      | -25.00 | -0.48  | Vertical   |
| Middle Channel                        |           |            |                   |             |        |        |            |
| 1                                     | 5070.000  | -41.84     | 15.98             | -25.86      | -25.00 | -0.86  | Horizontal |
| 2                                     | 7605.000  | -44.51     | 19.09             | -25.42      | -25.00 | -0.42  | Horizontal |
| 3                                     | 5070.000  | -44.07     | 16.97             | -27.10      | -25.00 | -2.10  | Vertical   |
| 4                                     | 7605.000  | -45.32     | 18.47             | -26.85      | -25.00 | -1.85  | Vertical   |
| Highest Channel                       |           |            |                   |             |        |        |            |
| 1                                     | 5120.000  | -47.52     | 16.07             | -31.45      | -25.00 | -6.45  | Horizontal |
| 2                                     | 7680.000  | -45.36     | 19.10             | -26.26      | -25.00 | -1.26  | Horizontal |
| 3                                     | 5120.000  | -43.51     | 17.05             | -26.46      | -25.00 | -1.46  | Vertical   |
| 4                                     | 7680.000  | -43.98     | 18.47             | -25.51      | -25.00 | -0.51  | Vertical   |

### 5.8.5 LTE Band 12

| LTE Band 12_ 10 MHz_ QPSK_(30 MHz to 1 GHz) |           |            |                   |             |        |        |            |
|---------------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                         | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                             | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 33.101    | -91.76     | 32.10             | -59.66      | -13.00 | -46.66 | Horizontal |
| 2                                           | 159.759   | -88.92     | 27.62             | -61.30      | -13.00 | -48.30 | Horizontal |
| 3                                           | 620.117   | -88.50     | 37.94             | -50.56      | -13.00 | -37.56 | Horizontal |
| 4                                           | 33.101    | -91.52     | 32.10             | -59.42      | -13.00 | -46.42 | Vertical   |
| 5                                           | 197.251   | -89.39     | 27.80             | -61.59      | -13.00 | -48.59 | Vertical   |
| 6                                           | 660.602   | -89.61     | 38.35             | -51.26      | -13.00 | -38.26 | Vertical   |
| Middle Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 40.299    | -90.46     | 27.99             | -62.47      | -13.00 | -49.47 | Horizontal |
| 2                                           | 185.163   | -90.11     | 28.13             | -61.98      | -13.00 | -48.98 | Horizontal |
| 3                                           | 542.610   | -90.15     | 35.99             | -54.16      | -13.00 | -41.16 | Horizontal |
| 4                                           | 41.158    | -90.39     | 27.77             | -62.62      | -13.00 | -49.62 | Vertical   |
| 5                                           | 185.163   | -89.84     | 28.13             | -61.71      | -13.00 | -48.71 | Vertical   |
| 6                                           | 527.571   | -88.97     | 35.80             | -53.17      | -13.00 | -40.17 | Vertical   |
| Highest Channel                             |           |            |                   |             |        |        |            |
| 1                                           | 34.045    | -93.23     | 31.27             | -61.96      | -13.00 | -48.96 | Horizontal |
| 2                                           | 120.612   | -89.03     | 26.49             | -62.54      | -13.00 | -49.54 | Horizontal |
| 3                                           | 254.031   | -88.57     | 29.35             | -59.22      | -13.00 | -46.22 | Horizontal |
| 4                                           | 36.524    | -90.28     | 29.76             | -60.52      | -13.00 | -47.52 | Vertical   |
| 5                                           | 238.463   | -88.58     | 29.11             | -59.47      | -13.00 | -46.47 | Vertical   |
| 6                                           | 488.326   | -89.41     | 34.95             | -54.46      | -13.00 | -41.46 | Vertical   |

| LTE Band 12_ 10 MHz_ QPSK_(Above 1GHz) |           |            |                   |             |        |        |            |
|----------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                    | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                        | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                         |           |            |                   |             |        |        |            |
| 1                                      | 1408.000  | -65.69     | 0.94              | -64.75      | -13.00 | -51.75 | Horizontal |
| 2                                      | 2112.000  | -68.59     | 5.78              | -62.81      | -13.00 | -49.81 | Horizontal |
| 3                                      | 1408.000  | -64.55     | 1.96              | -62.59      | -13.00 | -49.59 | Horizontal |
| 4                                      | 2112.000  | -68.72     | 8.54              | -60.18      | -13.00 | -47.18 | Vertical   |
| Middle Channel                         |           |            |                   |             |        |        |            |
| 1                                      | 1415.000  | -66.52     | 0.96              | -65.56      | -13.00 | -52.56 | Horizontal |
| 2                                      | 2122.500  | -69.13     | 5.83              | -63.30      | -13.00 | -50.30 | Horizontal |
| 3                                      | 1415.000  | -66.23     | 1.99              | -64.24      | -13.00 | -51.24 | Horizontal |
| 4                                      | 2122.500  | -68.95     | 8.58              | -60.37      | -13.00 | -47.37 | Vertical   |
| Highest Channel                        |           |            |                   |             |        |        |            |
| 1                                      | 1422.000  | -65.52     | 0.99              | -64.53      | -13.00 | -51.53 | Horizontal |
| 2                                      | 2133.000  | -68.12     | 5.89              | -62.23      | -13.00 | -49.23 | Horizontal |
| 3                                      | 1422.000  | -66.79     | 2.02              | -64.77      | -13.00 | -51.77 | Vertical   |
| 4                                      | 2133.000  | -70.00     | 8.63              | -61.37      | -13.00 | -48.37 | Vertical   |

### 5.8.6 LTE Band 17

| LTE Band 17_ 10 MHz_ QPSK_(30 MHz to 1 GHz) |           |            |                   |             |        |        |            |
|---------------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                         | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                             | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 35.511    | -91.77     | 30.33             | -61.44      | -13.00 | -48.44 | Horizontal |
| 2                                           | 163.162   | -89.33     | 27.59             | -61.74      | -13.00 | -48.74 | Horizontal |
| 3                                           | 607.181   | -88.96     | 37.75             | -51.21      | -13.00 | -38.21 | Horizontal |
| 4                                           | 32.640    | -92.96     | 32.50             | -60.46      | -13.00 | -47.46 | Vertical   |
| 5                                           | 52.634    | -89.64     | 24.93             | -64.71      | -13.00 | -51.71 | Vertical   |
| 6                                           | 502.247   | -87.94     | 35.36             | -52.58      | -13.00 | -39.58 | Vertical   |
| Middle Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 37.041    | -90.00     | 29.51             | -60.49      | -13.00 | -47.49 | Horizontal |
| 2                                           | 120.612   | -89.30     | 26.49             | -62.81      | -13.00 | -49.81 | Horizontal |
| 3                                           | 531.291   | -89.06     | 35.88             | -53.18      | -13.00 | -40.18 | Horizontal |
| 4                                           | 32.184    | -92.87     | 32.91             | -59.96      | -13.00 | -46.96 | Vertical   |
| 5                                           | 156.426   | -89.33     | 27.41             | -61.92      | -13.00 | -48.92 | Vertical   |
| 6                                           | 505.789   | -88.30     | 35.27             | -53.03      | -13.00 | -40.03 | Vertical   |
| Highest Channel                             |           |            |                   |             |        |        |            |
| 1                                           | 159.759   | -88.67     | 27.62             | -61.05      | -13.00 | -48.05 | Horizontal |
| 2                                           | 240.144   | -87.92     | 29.27             | -58.65      | -13.00 | -45.65 | Horizontal |
| 3                                           | 615.774   | -89.73     | 37.89             | -51.84      | -13.00 | -38.84 | Horizontal |
| 4                                           | 40.584    | -90.81     | 27.91             | -62.90      | -13.00 | -49.90 | Vertical   |
| 5                                           | 274.446   | -88.54     | 30.03             | -58.51      | -13.00 | -45.51 | Vertical   |
| 6                                           | 498.730   | -89.16     | 35.36             | -53.80      | -13.00 | -40.80 | Vertical   |

| LTE Band 17_ 10 MHz_ QPSK_(Above 1GHz) |           |            |                   |             |        |        |            |
|----------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                    | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                        | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                         |           |            |                   |             |        |        |            |
| 1                                      | 1420.000  | -66.24     | 0.98              | -65.26      | -13.00 | -52.26 | Horizontal |
| 2                                      | 2130.000  | -68.86     | 5.86              | -63.00      | -13.00 | -50.00 | Horizontal |
| 3                                      | 1420.000  | -65.19     | 2.01              | -63.18      | -13.00 | -50.18 | Vertical   |
| 4                                      | 2130.000  | -68.64     | 8.60              | -60.04      | -13.00 | -47.04 | Vertical   |
| Middle Channel                         |           |            |                   |             |        |        |            |
| 1                                      | 1422.000  | -65.37     | 0.99              | -64.38      | -13.00 | -51.38 | Horizontal |
| 2                                      | 2133.000  | -68.89     | 5.89              | -63.00      | -13.00 | -50.00 | Horizontal |
| 3                                      | 1422.000  | -64.35     | 2.02              | -62.33      | -13.00 | -49.33 | Vertical   |
| 4                                      | 2133.000  | -68.91     | 8.63              | -60.28      | -13.00 | -47.28 | Vertical   |
| Highest Channel                        |           |            |                   |             |        |        |            |
| 1                                      | 1418.000  | -65.23     | 0.98              | -64.25      | -13.00 | -51.25 | Horizontal |
| 2                                      | 2127.000  | -69.66     | 5.85              | -63.81      | -13.00 | -50.81 | Horizontal |
| 3                                      | 1418.000  | -64.89     | 2.01              | -62.88      | -13.00 | -49.88 | Vertical   |
| 4                                      | 2127.000  | -69.46     | 8.60              | -60.86      | -13.00 | -47.86 | Vertical   |

### 5.8.7 LTE Band 25

| LTE Band 25_ 20 MHz_ QPSK_(30 MHz to 1 GHz) |                    |                        |                                |                         |                |                |            |
|---------------------------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| 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                                           | 159.759            | -62.47                 | -0.87                          | -63.34                  | -25.00         | -38.34         | Horizontal |
| 2                                           | 240.144            | -61.17                 | 1.06                           | -60.11                  | -25.00         | -35.11         | Horizontal |
| 3                                           | 433.340            | -68.72                 | 5.17                           | -63.55                  | -25.00         | -38.55         | Horizontal |
| 4                                           | 40.299             | -63.04                 | -0.84                          | -63.88                  | -25.00         | -38.88         | Vertical   |
| 5                                           | 51.900             | -62.48                 | -3.73                          | -66.21                  | -25.00         | -41.21         | Vertical   |
| 6                                           | 498.730            | -69.41                 | 6.07                           | -63.34                  | -25.00         | -38.34         | Vertical   |
| Middle Channel                              |                    |                        |                                |                         |                |                |            |
| 1                                           | 120.612            | -60.46                 | -2.14                          | -62.60                  | -25.00         | -37.60         | Horizontal |
| 2                                           | 240.144            | -60.82                 | 1.06                           | -59.76                  | -25.00         | -34.76         | Horizontal |
| 3                                           | 366.087            | -60.24                 | 3.66                           | -56.58                  | -25.00         | -31.58         | Horizontal |
| 4                                           | 39.182             | -63.82                 | -0.37                          | -64.19                  | -25.00         | -39.19         | Vertical   |
| 5                                           | 120.612            | -67.57                 | -2.14                          | -69.71                  | -25.00         | -44.71         | Vertical   |
| 6                                           | 230.230            | -64.98                 | 0.32                           | -64.66                  | -25.00         | -39.66         | Vertical   |
| Highest Channel                             |                    |                        |                                |                         |                |                |            |
| 1                                           | 40.584             | -74.39                 | -0.92                          | -75.31                  | -25.00         | -50.31         | Horizontal |
| 2                                           | 127.586            | -72.39                 | -2.00                          | -74.39                  | -25.00         | -49.39         | Horizontal |
| 3                                           | 240.144            | -69.99                 | 1.06                           | -68.93                  | -25.00         | -43.93         | Horizontal |
| 4                                           | 40.299             | -64.40                 | -0.84                          | -65.24                  | -25.00         | -40.24         | Vertical   |
| 5                                           | 51.900             | -63.78                 | -3.73                          | -67.51                  | -25.00         | -42.51         | Vertical   |
| 6                                           | 231.853            | -73.48                 | 0.38                           | -73.10                  | -25.00         | -48.10         | Vertical   |

| LTE Band 25_ 20 MHz_ QPSK_(Above 1GHz) |                    |                        |                                |                         |                |                |            |
|----------------------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| 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                                      | 5580.000           | -49.98                 | 15.98                          | -34.00                  | -13.00         | -21.00         | Horizontal |
| 2                                      | 7440.000           | -42.78                 | 18.97                          | -23.81                  | -13.00         | -10.81         | Horizontal |
| 3                                      | 5580.000           | -48.08                 | 16.87                          | -31.21                  | -13.00         | -18.21         | Vertical   |
| 4                                      | 7440.000           | -42.25                 | 18.41                          | -23.84                  | -13.00         | -10.84         | Vertical   |
| Middle Channel                         |                    |                        |                                |                         |                |                |            |
| 1                                      | 5640.000           | -50.26                 | 16.10                          | -34.16                  | -13.00         | -21.16         | Horizontal |
| 2                                      | 7520.000           | -45.91                 | 19.09                          | -26.82                  | -13.00         | -13.82         | Horizontal |
| 3                                      | 5640.000           | -49.29                 | 16.97                          | -32.32                  | -13.00         | -19.32         | Vertical   |
| 4                                      | 7520.000           | -42.61                 | 18.48                          | -24.13                  | -13.00         | -11.13         | Vertical   |
| Highest Channel                        |                    |                        |                                |                         |                |                |            |
| 1                                      | 5715.000           | -47.93                 | 16.33                          | -31.60                  | -13.00         | -18.60         | Horizontal |
| 2                                      | 7620.000           | -42.25                 | 19.10                          | -23.15                  | -13.00         | -10.15         | Horizontal |
| 3                                      | 5715.000           | -49.16                 | 17.19                          | -31.97                  | -13.00         | -18.97         | Vertical   |
| 4                                      | 7620.000           | -40.09                 | 18.47                          | -21.62                  | -13.00         | -8.62          | Vertical   |

### 5.8.8 LTE Band 41

| LTE Band 41_ 20 MHz_ QPSK (30 MHz to 1 GHz) |           |            |                   |             |        |        |            |
|---------------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                         | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                             | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 40.299    | -64.61     | -0.84             | -65.45      | -25.00 | -40.45 | Horizontal |
| 2                                           | 52.266    | -63.92     | -3.79             | -67.71      | -25.00 | -42.71 | Horizontal |
| 3                                           | 240.144   | -62.74     | 1.06              | -61.68      | -25.00 | -36.68 | Horizontal |
| 4                                           | 40.299    | -64.61     | -0.84             | -65.45      | -25.00 | -40.45 | Vertical   |
| 5                                           | 52.266    | -64.12     | -3.79             | -67.91      | -25.00 | -42.91 | Vertical   |
| 6                                           | 366.087   | -73.03     | 3.66              | -69.37      | -25.00 | -44.37 | Vertical   |
| Middle Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 40.299    | -73.54     | -0.84             | -74.38      | -25.00 | -49.38 | Horizontal |
| 2                                           | 126.693   | -71.28     | -1.98             | -73.26      | -25.00 | -48.26 | Horizontal |
| 3                                           | 240.144   | -63.83     | 1.06              | -62.77      | -25.00 | -37.77 | Horizontal |
| 4                                           | 39.459    | -62.79     | -0.50             | -63.29      | -25.00 | -38.29 | Vertical   |
| 5                                           | 52.266    | -63.34     | -3.79             | -67.13      | -25.00 | -42.13 | Vertical   |
| 6                                           | 366.087   | -72.92     | 3.66              | -69.26      | -25.00 | -44.26 | Vertical   |
| Highest Channel                             |           |            |                   |             |        |        |            |
| 1                                           | 120.612   | -69.15     | -2.14             | -71.29      | -25.00 | -46.29 | Horizontal |
| 2                                           | 240.144   | -64.97     | 1.06              | -63.91      | -25.00 | -38.91 | Horizontal |
| 3                                           | 965.474   | -76.55     | 15.50             | -61.05      | -25.00 | -36.05 | Horizontal |
| 4                                           | 40.017    | -62.80     | -0.77             | -63.57      | -25.00 | -38.57 | Vertical   |
| 5                                           | 51.536    | -64.06     | -3.75             | -67.81      | -25.00 | -42.81 | Vertical   |
| 6                                           | 368.668   | -72.34     | 3.65              | -68.69      | -25.00 | -43.69 | Vertical   |

| LTE Band 41_ 20 MHz_ QPSK_(Above 1GHz) |           |            |                   |             |        |        |            |
|----------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                    | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                        | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                         |           |            |                   |             |        |        |            |
| 1                                      | 5012.000  | -52.26     | 15.88             | -36.38      | -25.00 | -11.38 | Horizontal |
| 2                                      | 7518.000  | -50.31     | 19.09             | -31.22      | -25.00 | -6.22  | Horizontal |
| 3                                      | 5012.000  | -48.80     | 16.88             | -31.92      | -25.00 | -6.92  | Vertical   |
| 4                                      | 7518.000  | -47.65     | 18.48             | -29.17      | -25.00 | -4.17  | Vertical   |
| Middle Channel                         |           |            |                   |             |        |        |            |
| 1                                      | 5186.000  | -51.20     | 16.19             | -35.01      | -25.00 | -10.01 | Horizontal |
| 2                                      | 7779.000  | -49.79     | 19.11             | -30.68      | -25.00 | -5.68  | Horizontal |
| 3                                      | 5186.000  | -53.34     | 17.15             | -36.19      | -25.00 | -11.19 | Vertical   |
| 4                                      | 7779.000  | -47.81     | 18.46             | -29.35      | -25.00 | -4.35  | Vertical   |
| Highest Channel                        |           |            |                   |             |        |        |            |
| 1                                      | 5360.000  | -55.63     | 16.18             | -39.45      | -25.00 | -14.45 | Horizontal |
| 2                                      | 8040.000  | -50.20     | 19.03             | -31.17      | -25.00 | -6.17  | Horizontal |
| 3                                      | 5360.000  | -52.54     | 17.11             | -35.43      | -25.00 | -10.43 | Vertical   |
| 4                                      | 8040.000  | -49.73     | 18.33             | -31.40      | -25.00 | -6.40  | Vertical   |

### 5.8.9 LTE Band 41 CA

| LTE Band 41 CA_ 20 MHz_ QPSK_(30 MHz to 1 GHz) |           |            |                   |             |        |        |            |
|------------------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                            | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                                | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                                 |           |            |                   |             |        |        |            |
| 1                                              | 37.565    | -93.27     | 29.26             | -64.01      | -13.00 | -51.01 | Horizontal |
| 2                                              | 159.759   | -89.42     | 27.62             | -61.80      | -13.00 | -48.80 | Horizontal |
| 3                                              | 498.730   | -89.29     | 35.36             | -53.93      | -13.00 | -40.93 | Horizontal |
| 4                                              | 40.299    | -63.04     | -0.84             | -63.88      | -25.00 | -38.88 | Vertical   |
| 5                                              | 51.900    | -62.48     | -3.73             | -66.21      | -25.00 | -41.21 | Vertical   |
| 6                                              | 498.730   | -69.41     | 6.07              | -63.34      | -25.00 | -38.34 | Vertical   |
| Middle Channel                                 |           |            |                   |             |        |        |            |
| 1                                              | 240.144   | -61.25     | 1.06              | -60.19      | -13.00 | -47.19 | Horizontal |
| 2                                              | 366.087   | -67.00     | 3.66              | -63.34      | -13.00 | -50.34 | Horizontal |
| 3                                              | 965.474   | -77.60     | 15.50             | -62.10      | -13.00 | -49.10 | Horizontal |
| 4                                              | 39.737    | -89.61     | 28.19             | -61.42      | -13.00 | -48.42 | Vertical   |
| 5                                              | 292.364   | -88.88     | 30.51             | -58.37      | -13.00 | -45.37 | Vertical   |
| 6                                              | 498.730   | -88.02     | 35.36             | -52.66      | -13.00 | -39.66 | Vertical   |
| Highest Channel                                |           |            |                   |             |        |        |            |
| 1                                              | 47.369    | -90.96     | 25.40             | -65.56      | -13.00 | -52.56 | Horizontal |
| 2                                              | 191.784   | -89.57     | 27.86             | -61.71      | -13.00 | -48.71 | Horizontal |
| 3                                              | 693.910   | -88.65     | 38.94             | -49.71      | -13.00 | -36.71 | Horizontal |
| 4                                              | 39.737    | -89.61     | 28.19             | -61.42      | -13.00 | -48.42 | Vertical   |
| 5                                              | 292.364   | -88.88     | 30.51             | -58.37      | -13.00 | -45.37 | Vertical   |
| 6                                              | 498.730   | -88.02     | 35.36             | -52.66      | -13.00 | -39.66 | Vertical   |

| LTE Band 41 CA_ 20 MHz_ QPSK_(Above 1GHz) |           |            |                   |             |        |        |            |
|-------------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                       | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                           | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                            |           |            |                   |             |        |        |            |
| 1                                         | 5012.000  | -52.26     | 15.88             | -36.38      | -25.00 | -11.38 | Horizontal |
| 2                                         | 7518.000  | -50.31     | 19.09             | -31.22      | -25.00 | -6.22  | Horizontal |
| 3                                         | 5033.000  | -47.54     | 16.88             | -30.66      | -25.00 | -5.66  | Vertical   |
| 4                                         | 7526.000  | -48.25     | 18.48             | -29.77      | -25.00 | -4.77  | Vertical   |
| Middle Channel                            |           |            |                   |             |        |        |            |
| 1                                         | 5243.000  | -50.12     | 16.19             | -33.93      | -25.00 | -8.93  | Horizontal |
| 2                                         | 5243.000  | -50.12     | 16.19             | -33.93      | -25.00 | -8.93  | Horizontal |
| 3                                         | 5186.000  | -53.34     | 17.15             | -36.19      | -25.00 | -11.19 | Vertical   |
| 4                                         | 7779.000  | -47.81     | 18.46             | -29.35      | -25.00 | -4.35  | Vertical   |
| Highest Channel                           |           |            |                   |             |        |        |            |
| 1                                         | 5435.000  | -54.21     | 16.18             | -38.03      | -25.00 | -13.03 | Horizontal |
| 2                                         | 8125.000  | -49.12     | 19.03             | -30.09      | -25.00 | -5.09  | Horizontal |
| 3                                         | 5432.000  | -51.44     | 17.11             | -34.33      | -25.00 | -9.33  | Vertical   |
| 4                                         | 8145.000  | -49.33     | 18.33             | -31.00      | -25.00 | -6.00  | Vertical   |

### 5.8.10 LTE Band 66

| LTE Band 66_ 20 MHz_ QPSK (30 MHz to 1 GHz) |           |            |                   |             |        |        |            |
|---------------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                         | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                             | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 240.144   | -67.47     | 1.06              | -66.41      | -25.00 | -41.41 | Horizontal |
| 2                                           | 368.668   | -72.66     | 3.65              | -69.01      | -25.00 | -44.01 | Horizontal |
| 3                                           | 723.793   | -75.95     | 9.83              | -66.12      | -25.00 | -41.12 | Horizontal |
| 4                                           | 40.299    | -64.44     | -0.84             | -65.28      | -25.00 | -40.28 | Vertical   |
| 5                                           | 52.634    | -63.72     | -3.88             | -67.60      | -25.00 | -42.60 | Vertical   |
| 6                                           | 366.087   | -72.61     | 3.66              | -68.95      | -25.00 | -43.95 | Vertical   |
| Middle Channel                              |           |            |                   |             |        |        |            |
| 1                                           | 240.144   | -66.24     | 1.06              | -65.18      | -25.00 | -40.18 | Horizontal |
| 2                                           | 368.668   | -71.70     | 3.65              | -68.05      | -25.00 | -43.05 | Horizontal |
| 3                                           | 965.474   | -73.40     | 15.50             | -57.90      | -25.00 | -32.90 | Horizontal |
| 4                                           | 39.182    | -64.16     | -0.37             | -64.53      | -25.00 | -39.53 | Vertical   |
| 5                                           | 52.634    | -63.76     | -3.88             | -67.64      | -25.00 | -42.64 | Vertical   |
| 6                                           | 366.087   | -72.61     | 3.66              | -68.95      | -25.00 | -43.95 | Vertical   |
| Highest Channel                             |           |            |                   |             |        |        |            |
| 1                                           | 125.806   | -70.71     | -1.94             | -72.65      | -25.00 | -47.65 | Horizontal |
| 2                                           | 240.144   | -66.24     | 1.06              | -65.18      | -25.00 | -40.18 | Horizontal |
| 3                                           | 965.474   | -76.74     | 15.50             | -61.24      | -25.00 | -36.24 | Horizontal |
| 4                                           | 39.459    | -63.50     | -0.50             | -64.00      | -25.00 | -39.00 | Vertical   |
| 5                                           | 51.900    | -63.38     | -3.73             | -67.11      | -25.00 | -42.11 | Vertical   |
| 6                                           | 368.668   | -72.31     | 3.65              | -68.66      | -25.00 | -43.66 | Vertical   |

| LTE Band 66_ 20 MHz_ QPSK_(Above 1GHz) |           |            |                   |             |        |        |            |
|----------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                    | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                        | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                         |           |            |                   |             |        |        |            |
| 1                                      | 3440.000  | -51.99     | 12.56             | -39.43      | -13.00 | -26.43 | Horizontal |
| 2                                      | 5160.000  | -51.40     | 16.14             | -35.26      | -13.00 | -22.26 | Horizontal |
| 3                                      | 3440.000  | -58.02     | 13.80             | -44.22      | -13.00 | -31.22 | Horizontal |
| 4                                      | 5160.000  | -49.97     | 17.11             | -32.86      | -13.00 | -19.86 | Vertical   |
| Middle Channel                         |           |            |                   |             |        |        |            |
| 1                                      | 3490.000  | -51.97     | 12.93             | -39.04      | -13.00 | -26.04 | Horizontal |
| 2                                      | 5235.000  | -48.72     | 16.20             | -32.52      | -13.00 | -19.52 | Horizontal |
| 3                                      | 3490.000  | -48.43     | 14.14             | -34.29      | -13.00 | -21.29 | Horizontal |
| 4                                      | 5235.000  | -45.17     | 17.16             | -28.01      | -13.00 | -15.01 | Vertical   |
| Highest Channel                        |           |            |                   |             |        |        |            |
| 1                                      | 3540.000  | -51.03     | 13.24             | -37.79      | -13.00 | -24.79 | Horizontal |
| 2                                      | 5310.000  | -51.14     | 16.19             | -34.95      | -13.00 | -21.95 | Horizontal |
| 3                                      | 3540.000  | -51.18     | 14.47             | -36.71      | -13.00 | -23.71 | Horizontal |
| 4                                      | 5310.000  | -47.40     | 17.13             | -30.27      | -13.00 | -17.27 | Vertical   |

### 5.8.11 LTE Band 71

| LTE Band 71_ 20 MHz_ QPSK_(30 MHz to 1 GHz) |                    |                        |                                |                         |                |                |            |
|---------------------------------------------|--------------------|------------------------|--------------------------------|-------------------------|----------------|----------------|------------|
| 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                                           | 36.014             | -90.78                 | 30.01                          | -60.77                  | -13.00         | -47.77         | Horizontal |
| 2                                           | 159.759            | -88.52                 | 27.62                          | -60.90                  | -13.00         | -47.90         | Horizontal |
| 3                                           | 620.117            | -88.86                 | 37.94                          | -50.92                  | -13.00         | -37.92         | Horizontal |
| 4                                           | 35.016             | -92.10                 | 30.65                          | -61.45                  | -13.00         | -48.45         | Vertical   |
| 5                                           | 228.617            | -88.78                 | 28.47                          | -60.31                  | -13.00         | -47.31         | Vertical   |
| 6                                           | 624.490            | -89.76                 | 37.99                          | -51.77                  | -13.00         | -38.77         | Vertical   |
| Middle Channel                              |                    |                        |                                |                         |                |                |            |
| 1                                           | 36.781             | -91.35                 | 29.64                          | -61.71                  | -13.00         | -48.71         | Horizontal |
| 2                                           | 120.612            | -87.61                 | 26.49                          | -61.12                  | -13.00         | -48.12         | Horizontal |
| 3                                           | 240.144            | -87.73                 | 29.27                          | -58.46                  | -13.00         | -45.46         | Horizontal |
| 4                                           | 36.014             | -92.10                 | 30.01                          | -62.09                  | -13.00         | -49.09         | Vertical   |
| 5                                           | 182.578            | -89.24                 | 28.03                          | -61.21                  | -13.00         | -48.21         | Vertical   |
| 6                                           | 598.707            | -88.85                 | 37.53                          | -51.32                  | -13.00         | -38.32         | Vertical   |
| Highest Channel                             |                    |                        |                                |                         |                |                |            |
| 1                                           | 40.299             | -92.28                 | 27.99                          | -64.29                  | -13.00         | -51.29         | Horizontal |
| 2                                           | 216.120            | -88.77                 | 27.77                          | -61.00                  | -13.00         | -48.00         | Horizontal |
| 3                                           | 550.290            | -89.42                 | 35.96                          | -53.46                  | -13.00         | -40.46         | Horizontal |
| 4                                           | 35.263             | -91.70                 | 30.49                          | -61.21                  | -13.00         | -48.21         | Vertical   |
| 5                                           | 157.529            | -90.27                 | 27.47                          | -62.80                  | -13.00         | -49.80         | Vertical   |
| 6                                           | 491.770            | -87.67                 | 35.06                          | -52.61                  | -13.00         | -39.61         | Vertical   |

| LTE Band 71_ 20 MHz_ QPSK_(Above 1GHz) |           |            |                   |             |        |        |            |
|----------------------------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No.                                    | Frequency | SA Reading | Correction factor | EIRP Result | Limit  | Margin | Ant. Pol.  |
|                                        | (MHz)     | (dBm)      | (dB/m)            | (dBm)       | (dBm)  | (dB)   |            |
| Lowest Channel                         |           |            |                   |             |        |        |            |
| 1                                      | 1346.000  | -64.76     | 0.75              | -64.01      | -13.00 | -51.01 | Horizontal |
| 2                                      | 2019.000  | -68.40     | 5.31              | -63.09      | -13.00 | -50.09 | Horizontal |
| 3                                      | 1346.000  | -63.89     | 1.73              | -62.16      | -13.00 | -49.16 | Vertical   |
| 4                                      | 2019.000  | -68.65     | 8.18              | -60.47      | -13.00 | -47.47 | Vertical   |
| Middle Channel                         |           |            |                   |             |        |        |            |
| 1                                      | 1361.000  | -60.95     | 0.80              | -60.15      | -13.00 | -47.15 | Horizontal |
| 2                                      | 2041.500  | -68.29     | 5.41              | -62.88      | -13.00 | -49.88 | Horizontal |
| 3                                      | 1361.000  | -61.69     | 1.79              | -59.90      | -13.00 | -46.90 | Vertical   |
| 4                                      | 2041.500  | -68.00     | 8.26              | -59.74      | -13.00 | -46.74 | Vertical   |
| Highest Channel                        |           |            |                   |             |        |        |            |
| 1                                      | 1381.000  | -65.89     | 0.86              | -65.03      | -13.00 | -52.03 | Horizontal |
| 2                                      | 2071.500  | -68.31     | 5.57              | -62.74      | -13.00 | -49.74 | Horizontal |
| 3                                      | 1381.000  | -65.75     | 1.87              | -63.88      | -13.00 | -50.88 | Vertical   |
| 4                                      | 2071.500  | -68.57     | 8.39              | -60.18      | -13.00 | -47.18 | 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

## 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,**

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 or CMU 200 with Frequency Error measurement capability.
  - a) Temp. =  $-30^{\circ}$  to  $+50^{\circ}\text{C}$
  - b) Voltage = low voltage, 3.5 Vdc, Normal, 3.85 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 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:** Pass

### 5.9.1 LTE Band 2

| Modulation                   | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>( $^{\circ}\text{C}$ ) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Pass/ Fail |
|------------------------------|--------------------------------|------------------|---------------------------------------|-------------------|--------------------|----------------|------------|
| LTE Band 2 / 20MHz / Full RB |                                |                  |                                       |                   |                    |                |            |
| QPSK                         | 18900 / 1880.0                 | VL               | TN                                    | -7.32             | -0.0039            | N/A            | Pass       |
|                              |                                | VN               |                                       | -6.39             | -0.0034            |                | Pass       |
|                              |                                | VH               |                                       | -5.44             | -0.0029            |                | Pass       |
|                              |                                | VN               | 50                                    | -2.45             | -0.0013            |                | Pass       |
|                              |                                |                  | 40                                    | -3.54             | -0.0019            |                | Pass       |
|                              |                                |                  | 30                                    | -5.67             | -0.0030            |                | Pass       |
|                              |                                |                  | 20                                    | -6.23             | -0.0033            |                | Pass       |
|                              |                                |                  | 10                                    | -7.21             | -0.0038            |                | Pass       |
|                              |                                |                  | 0                                     | -7.55             | -0.0040            |                | Pass       |
|                              |                                |                  | -10                                   | -8.24             | -0.0044            |                | Pass       |
|                              |                                |                  | -20                                   | -8.67             | -0.0046            |                | Pass       |
|                              |                                |                  | -30                                   | 25.67             | 0.0137             |                | Pass       |

### 5.9.2 LTE Band 4

| Modulation                   | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Pass/ Fail |
|------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|------------|
| LTE Band 4 / 20MHz / Full RB |                                |                  |                     |                   |                    |                |            |
| QPSK                         | 20175 /<br>1732.5              | VL               | TN                  | -6.12             | -0.0035            | N/A            | Pass       |
|                              |                                | VN               |                     | -5.43             | -0.0031            |                | Pass       |
|                              |                                | VH               |                     | -6.55             | -0.0038            |                | Pass       |
|                              |                                | VN               | 50                  | -4.32             | -0.0025            |                | Pass       |
|                              |                                |                  | 40                  | -4.13             | -0.0024            |                | Pass       |
|                              |                                |                  | 30                  | -5.65             | -0.0033            |                | Pass       |
|                              |                                |                  | 20                  | -5.72             | -0.0033            |                | Pass       |
|                              |                                |                  | 10                  | -6.22             | -0.0036            |                | Pass       |
|                              |                                |                  | 0                   | -6.34             | -0.0037            |                | Pass       |
|                              |                                |                  | -10                 | -7.89             | -0.0046            |                | Pass       |
|                              |                                |                  | -20                 | -8.01             | -0.0046            |                | Pass       |
|                              |                                |                  | -30                 | 10.22             | 0.0059             |                | Pass       |

### 5.9.3 LTE Band 5

| Modulation                   | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 5 / 10MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                         | 20525 /<br>836.5               | VL               | TN                  | -3.67             | -0.0044            | ± 2.5          | Pass   |
|                              |                                | VN               |                     | -4.54             | -0.0054            | ± 2.5          | Pass   |
|                              |                                | VH               |                     | -5.12             | -0.0061            | ± 2.5          | Pass   |
|                              |                                | VN               | 50                  | -4.22             | -0.0050            | ± 2.5          | Pass   |
|                              |                                |                  | 40                  | -4.12             | -0.0049            | ± 2.5          | Pass   |
|                              |                                |                  | 30                  | -3.78             | -0.0045            | ± 2.5          | Pass   |
|                              |                                |                  | 20                  | -3.65             | -0.0044            | ± 2.5          | Pass   |
|                              |                                |                  | 10                  | -3.22             | -0.0038            | ± 2.5          | Pass   |
|                              |                                |                  | 0                   | -4.87             | -0.0058            | ± 2.5          | Pass   |
|                              |                                |                  | -10                 | -4.88             | -0.0058            | ± 2.5          | Pass   |
|                              |                                |                  | -20                 | -5.18             | -0.0062            | ± 2.5          | Pass   |
|                              |                                |                  | -30                 | -18.28            | -0.0219            | ± 2.5          | Pass   |

### 5.9.4 LTE Band 7

| Modulation                   | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 7 / 20MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                         | 21100 / 2535                   | VL               | TN                  | -7.45             | -0.0029            | N/A            | Pass   |
|                              |                                | VN               |                     | -7.28             | -0.0029            |                | Pass   |
|                              |                                | VH               |                     | -6.57             | -0.0026            |                | Pass   |
|                              |                                | VN               | 50                  | -5.21             | -0.0021            |                | Pass   |
|                              |                                |                  | 40                  | -5.03             | -0.0020            |                | Pass   |
|                              |                                |                  | 30                  | -5.43             | -0.0021            |                | Pass   |
|                              |                                |                  | 20                  | -7.34             | -0.0029            |                | Pass   |
|                              |                                |                  | 10                  | -7.56             | -0.0030            |                | Pass   |
|                              |                                |                  | 0                   | -7.88             | -0.0031            |                | Pass   |
|                              |                                |                  | -10                 | -7.53             | -0.0030            |                | Pass   |
|                              |                                |                  | -20                 | -6.56             | -0.0026            |                | Pass   |
|                              |                                |                  | -30                 | -4.54             | -0.0018            |                | Pass   |

### 5.9.5 LTE Band 12

| Modulation                    | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|-------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 12 / 10MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                          | 23095 / 707.5                  | VL               | TN                  | -2.77             | -0.0039            | N/A            | Pass   |
|                               |                                | VN               |                     | -3.49             | -0.0049            |                | Pass   |
|                               |                                | VH               |                     | -4.76             | -0.0067            |                | Pass   |
|                               |                                | VN               | 50                  | -3.67             | -0.0052            |                | Pass   |
|                               |                                |                  | 40                  | -3.55             | -0.0050            |                | Pass   |
|                               |                                |                  | 30                  | -4.23             | -0.0060            |                | Pass   |
|                               |                                |                  | 20                  | -4.33             | -0.0061            |                | Pass   |
|                               |                                |                  | 10                  | -4.21             | -0.0060            |                | Pass   |
|                               |                                |                  | 0                   | -2.67             | -0.0038            |                | Pass   |
|                               |                                |                  | -10                 | -2.69             | -0.0038            |                | Pass   |
|                               |                                |                  | -20                 | -3.03             | -0.0043            |                | Pass   |
|                               |                                |                  | -30                 | -3.22             | -0.0046            |                | Pass   |

### 5.9.6 LTE Band 17

| Modulation                    | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|-------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 17 / 10MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                          | 23790 / 710                    | VL               | TN                  | -3.42             | -0.0048            | N/A            | Pass   |
|                               |                                | VN               |                     | -4.21             | -0.0060            |                | Pass   |
|                               |                                | VH               |                     | -4.76             | -0.0067            |                | Pass   |
|                               |                                | VN               | 50                  | -2.43             | -0.0034            |                | Pass   |
|                               |                                |                  | 40                  | -3.16             | -0.0045            |                | Pass   |
|                               |                                |                  | 30                  | -4.23             | -0.0060            |                | Pass   |
|                               |                                |                  | 20                  | -4.33             | -0.0061            |                | Pass   |
|                               |                                |                  | 10                  | -4.12             | -0.0058            |                | Pass   |
|                               |                                |                  | 0                   | -3.22             | -0.0046            |                | Pass   |
|                               |                                |                  | -10                 | -2.76             | -0.0039            |                | Pass   |
|                               |                                |                  | -20                 | -3.44             | -0.0049            |                | Pass   |
|                               |                                |                  | -30                 | -3.18             | -0.0045            |                | Pass   |

### 5.9.7 LTE Band 25

| Modulation                    | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|-------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 25 / 20MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                          | 26340 /<br>1880.0              | VL               | TN                  | -8.32             | -0.0044            | N/A            | Pass   |
|                               |                                | VN               |                     | -8.81             | -0.0047            |                | Pass   |
|                               |                                | VH               |                     | -7.29             | -0.0039            |                | Pass   |
|                               |                                | VN               | 50                  | -7.86             | -0.0042            |                | Pass   |
|                               |                                |                  | 40                  | -7.44             | -0.0040            |                | Pass   |
|                               |                                |                  | 30                  | -8.22             | -0.0044            |                | Pass   |
|                               |                                |                  | 20                  | -8.43             | -0.0045            |                | Pass   |
|                               |                                |                  | 10                  | -7.98             | -0.0042            |                | Pass   |
|                               |                                |                  | 0                   | -7.68             | -0.0041            |                | Pass   |
|                               |                                |                  | -10                 | -5.44             | -0.0029            |                | Pass   |
|                               |                                |                  | -20                 | -5.12             | -0.0027            |                | Pass   |
|                               |                                |                  | -30                 | -4.54             | -0.0024            |                | Pass   |

### 5.9.8 LTE Band 41

| Modulation                    | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|-------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 41 / 20MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                          | 40620 /<br>2593                | VL               | TN                  | 2.12              | 0.0008             | N/A            | Pass   |
|                               |                                | VN               |                     | 2.24              | 0.0009             |                | Pass   |
|                               |                                | VH               |                     | 3.15              | 0.0012             |                | Pass   |
|                               |                                | VN               | 50                  | 5.43              | 0.0021             |                | Pass   |
|                               |                                |                  | 40                  | 5.34              | 0.0021             |                | Pass   |
|                               |                                |                  | 30                  | 4.89              | 0.0019             |                | Pass   |
|                               |                                |                  | 20                  | 3.44              | 0.0013             |                | Pass   |
|                               |                                |                  | 10                  | 3.21              | 0.0012             |                | Pass   |
|                               |                                |                  | 0                   | -0.43             | -0.0002            |                | Pass   |
|                               |                                |                  | -10                 | -1.67             | -0.0006            |                | Pass   |
|                               |                                |                  | -20                 | -2.32             | -0.0009            |                | Pass   |
|                               |                                |                  | -30                 | -2.45             | -0.0009            |                | Pass   |

### 5.9.9 LTE Band 41 CA

| Modulation                    | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|-------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 41 / 20MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                          | 40620 /<br>2593                | VL               | TN                  | 5.34              | 0.0021             | N/A            | Pass   |
|                               |                                | VN               |                     | 6.23              | 0.0024             |                | Pass   |
|                               |                                | VH               |                     | 4.45              | 0.0017             |                | Pass   |
|                               |                                | VN               | 50                  | 5.43              | 0.0021             |                | Pass   |
|                               |                                |                  | 40                  | 5.55              | 0.0021             |                | Pass   |
|                               |                                |                  | 30                  | 6.12              | 0.0024             |                | Pass   |
|                               |                                |                  | 20                  | 6.34              | 0.0024             |                | Pass   |
|                               |                                |                  | 10                  | 4.56              | 0.0018             |                | Pass   |
|                               |                                |                  | 0                   | 4.33              | 0.0017             |                | Pass   |
|                               |                                |                  | -10                 | 2.54              | 0.0010             |                | Pass   |
|                               |                                |                  | -20                 | -0.48             | -0.0002            |                | Pass   |
|                               |                                |                  | -30                 | -1.32             | -0.0005            |                | Pass   |

### 5.9.10 LTE Band 66

| Modulation                    | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|-------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 66 / 20MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                          | 132322 / 1745                  | VL               | TN                  | -4.54             | -0.0026            | N/A            | Pass   |
|                               |                                | VN               |                     | -5.34             | -0.0031            |                | Pass   |
|                               |                                | VH               |                     | -4.11             | -0.0024            |                | Pass   |
|                               |                                | VN               | 50                  | -7.32             | -0.0042            |                | Pass   |
|                               |                                |                  | 40                  | -7.02             | -0.0040            |                | Pass   |
|                               |                                |                  | 30                  | -6.43             | -0.0037            |                | Pass   |
|                               |                                |                  | 20                  | -5.45             | -0.0031            |                | Pass   |
|                               |                                |                  | 10                  | -4.67             | -0.0027            |                | Pass   |
|                               |                                |                  | 0                   | -3.49             | -0.0020            |                | Pass   |
|                               |                                |                  | -10                 | -2.67             | -0.0015            |                | Pass   |
|                               |                                |                  | -20                 | -2.22             | -0.0013            |                | Pass   |
|                               |                                |                  | -30                 | -1.89             | -0.0011            |                | Pass   |

### 5.9.11 LTE Band 71

| Modulation                    | Channel/<br>Frequency<br>(MHz) | Voltage<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Result |
|-------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| LTE Band 71 / 20MHz / Full RB |                                |                  |                     |                   |                    |                |        |
| QPSK                          | 133322 / 683                   | VL               | TN                  | -4.89             | -0.0072            | N/A            | Pass   |
|                               |                                | VN               |                     | -5.54             | -0.0081            |                | Pass   |
|                               |                                | VH               |                     | -5.23             | -0.0077            |                | Pass   |
|                               |                                | VN               | 50                  | -5.19             | -0.0076            |                | Pass   |
|                               |                                |                  | 40                  | -5.02             | -0.0073            |                | Pass   |
|                               |                                |                  | 30                  | -4.67             | -0.0068            |                | Pass   |
|                               |                                |                  | 20                  | -4.56             | -0.0067            |                | Pass   |
|                               |                                |                  | 10                  | -3.42             | -0.0050            |                | Pass   |
|                               |                                |                  | 0                   | -1.53             | -0.0022            |                | Pass   |
|                               |                                |                  | -10                 | 0.78              | 0.0011             |                | Pass   |
|                               |                                |                  | -20                 | 1.22              | 0.0018             |                | Pass   |
|                               |                                |                  | -30                 | 2.54              | 0.0037             |                | Pass   |

## APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

## APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

\*\*\* End of Report \*\*\*

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