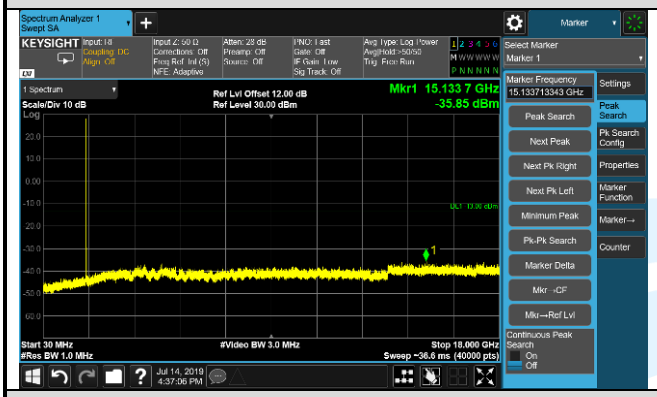
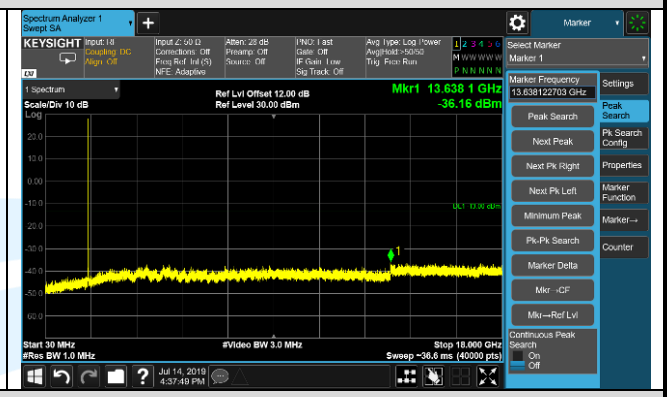
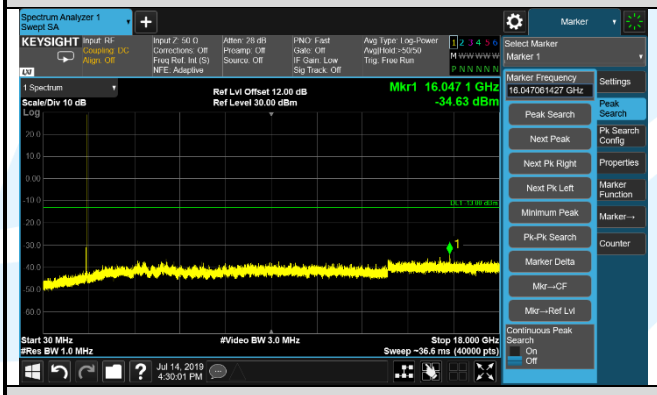
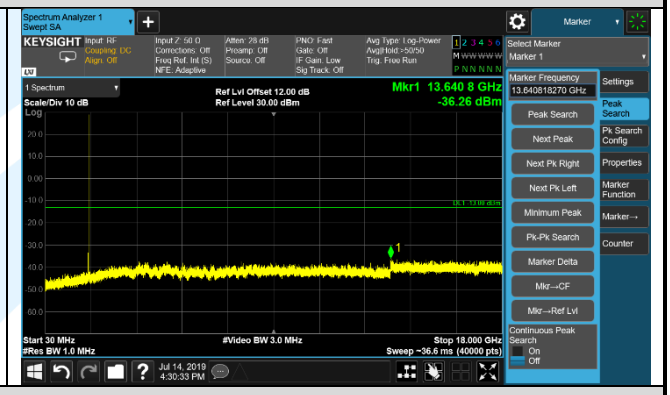
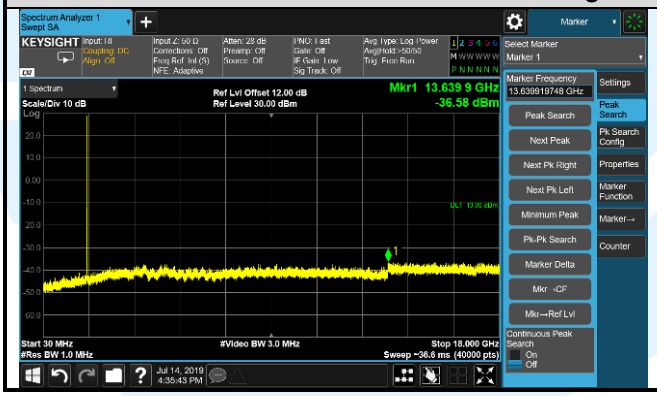
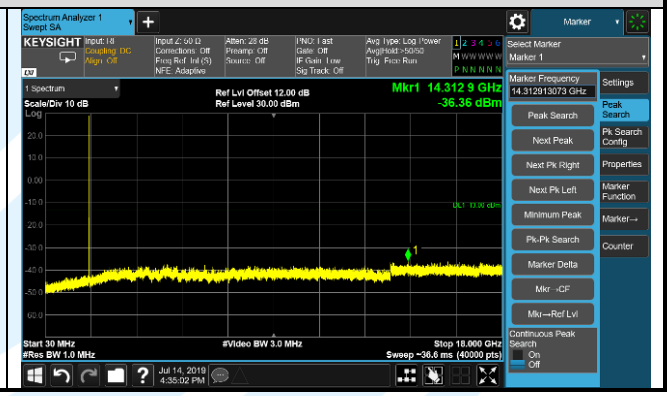
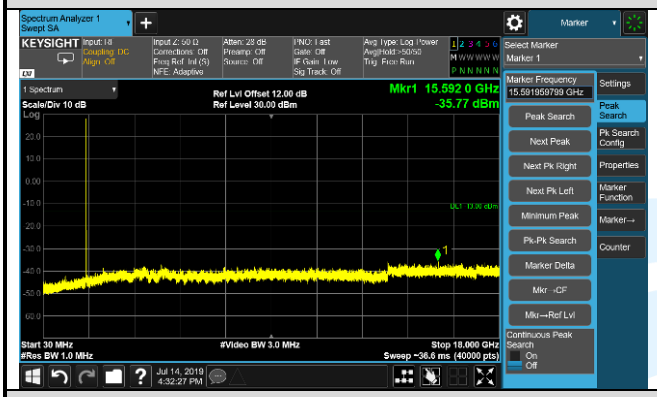
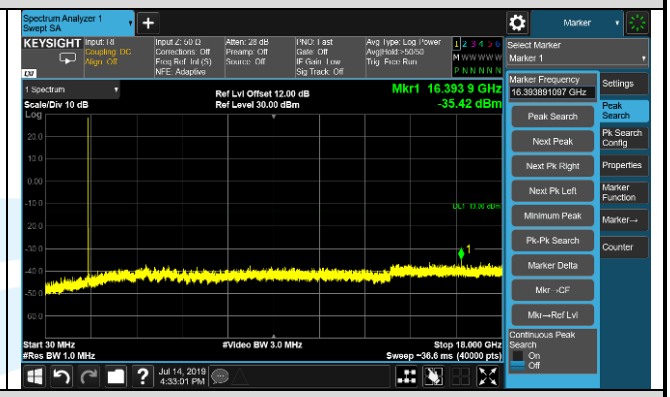
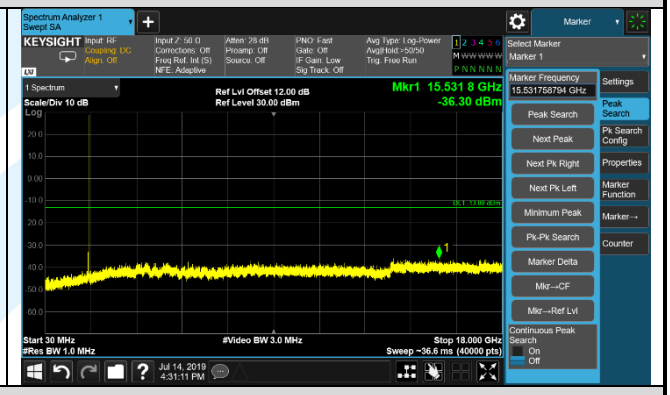
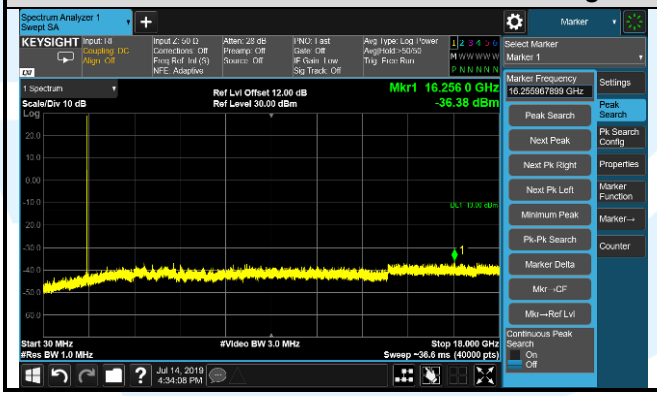
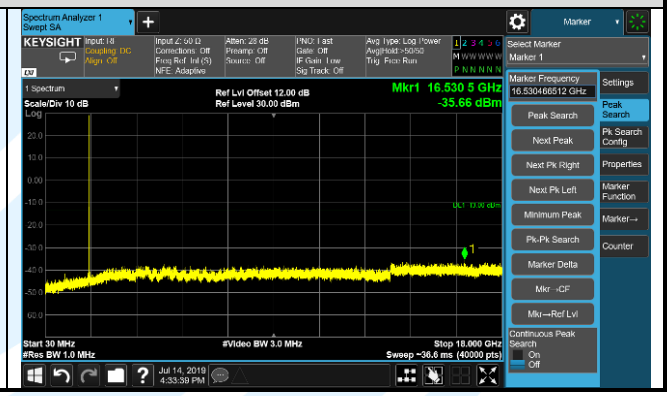
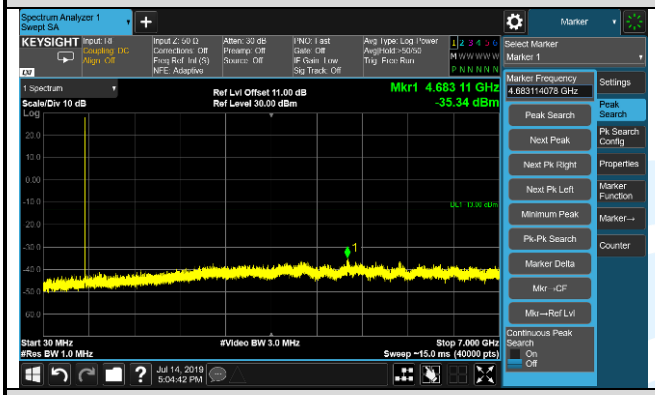
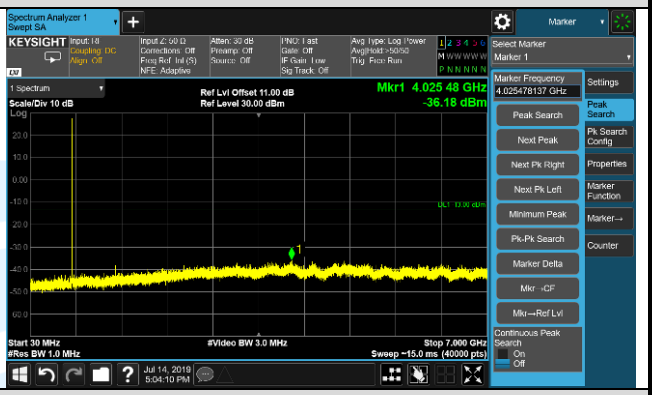
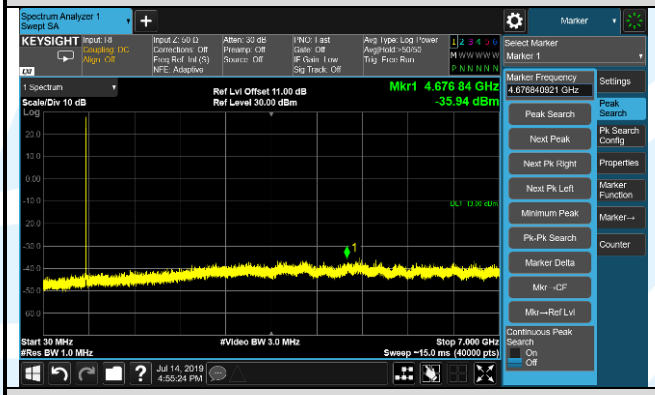
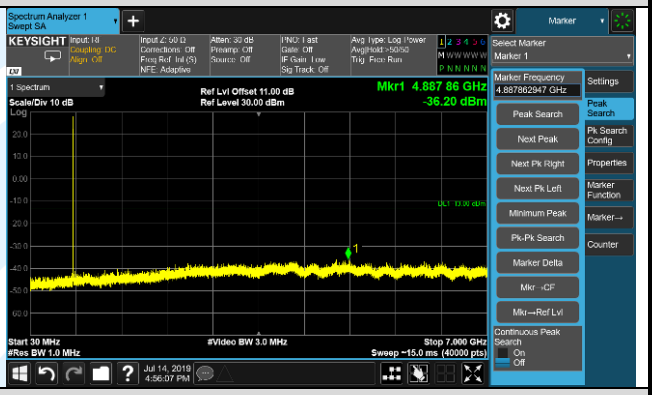
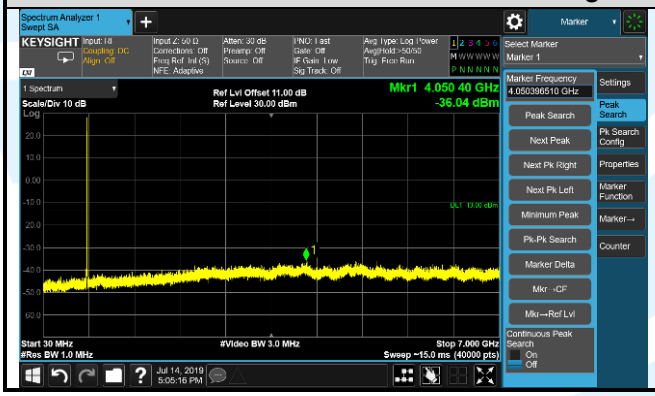
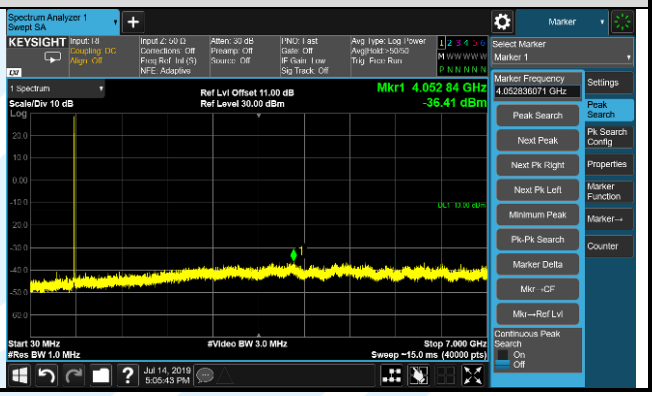
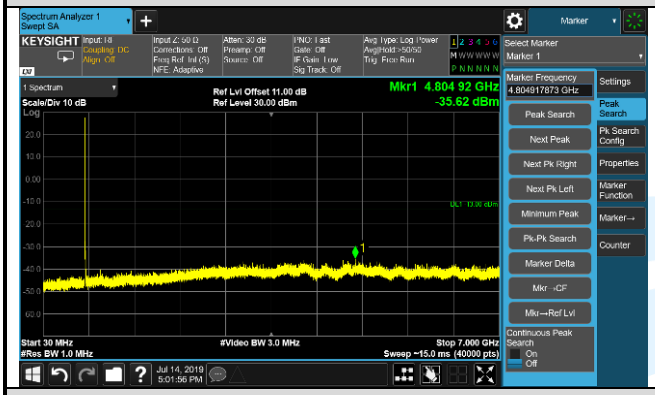
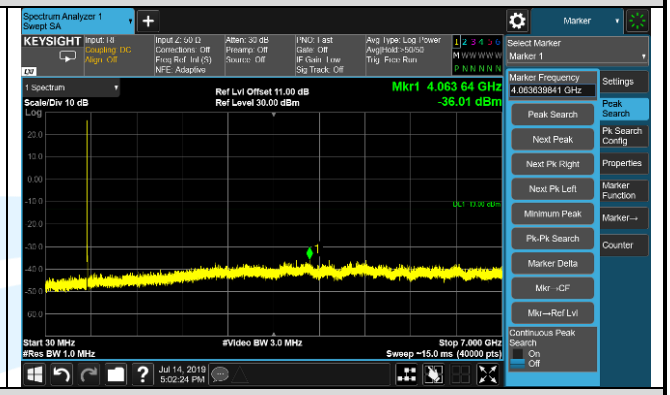
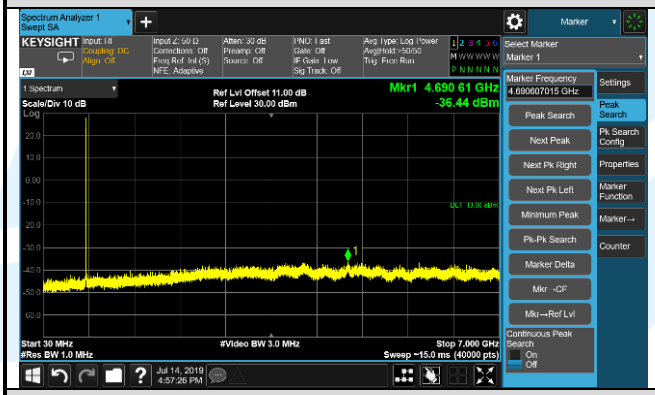
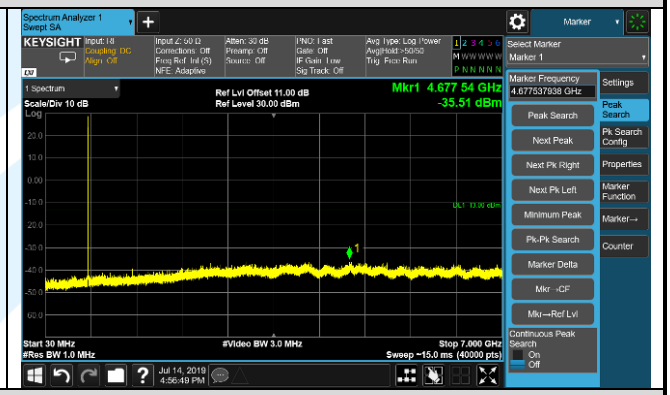
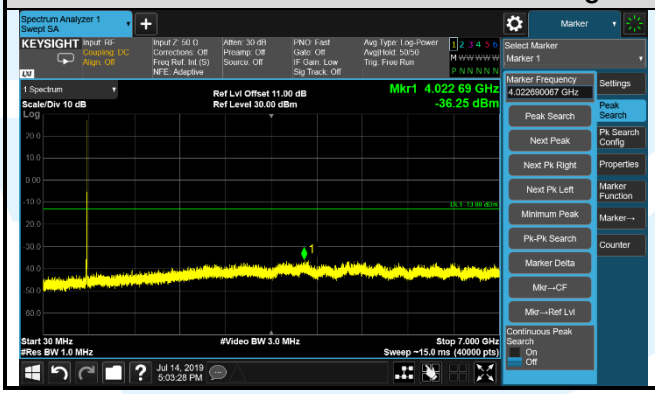
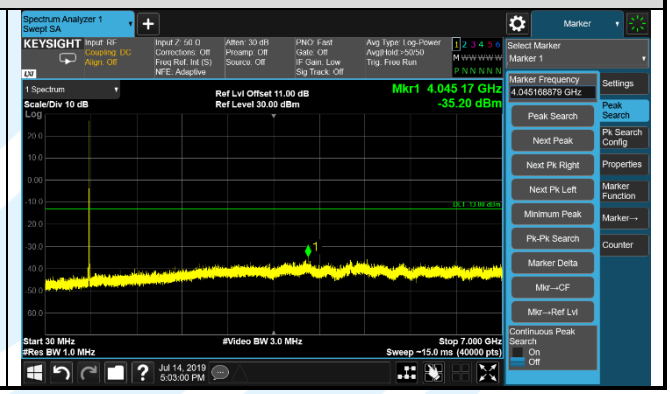
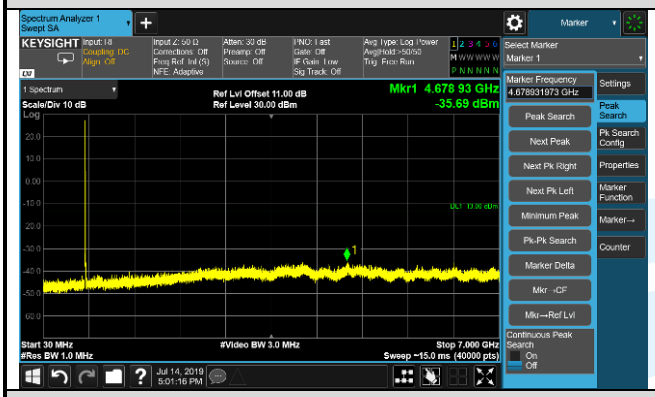
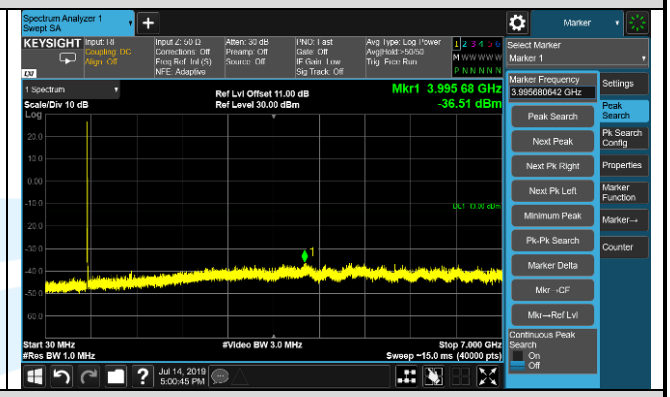
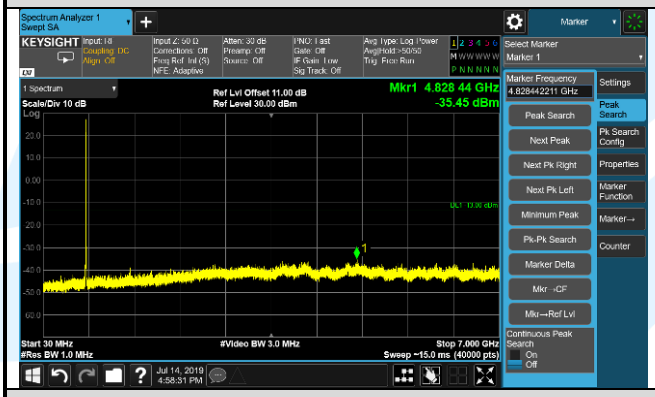
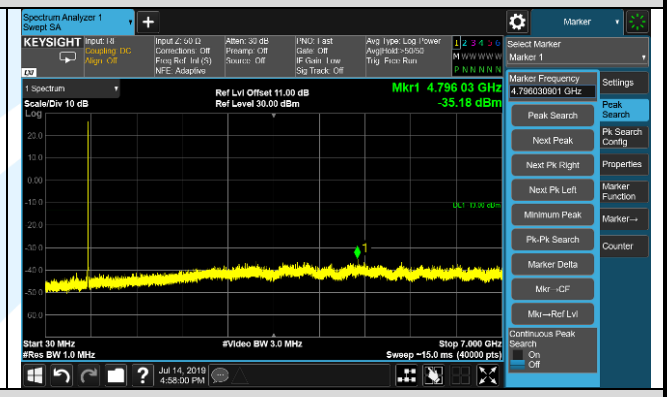
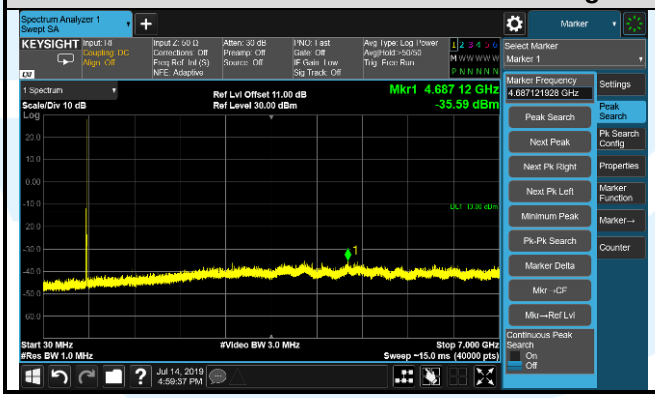
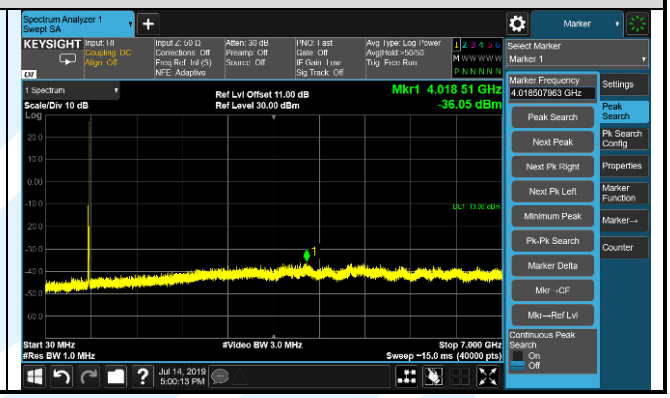
| LTE Band 66_ Channel Bandwidth: 15 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
|  |  |
| **Middle Channel** | |
|  |  |
| **Highest Channel** | |
|  |  |

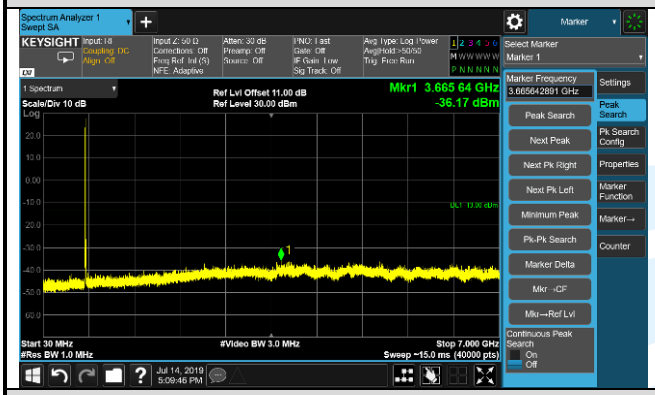
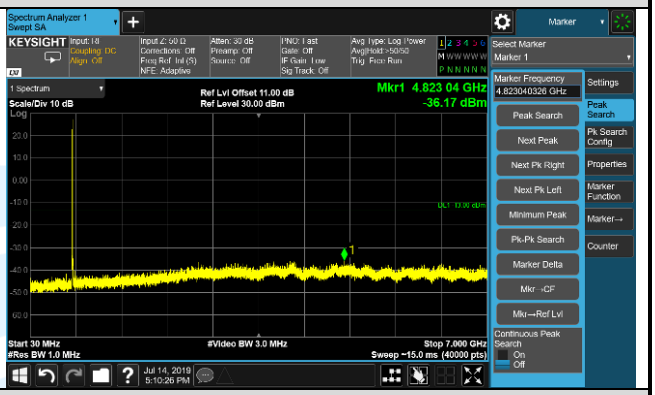
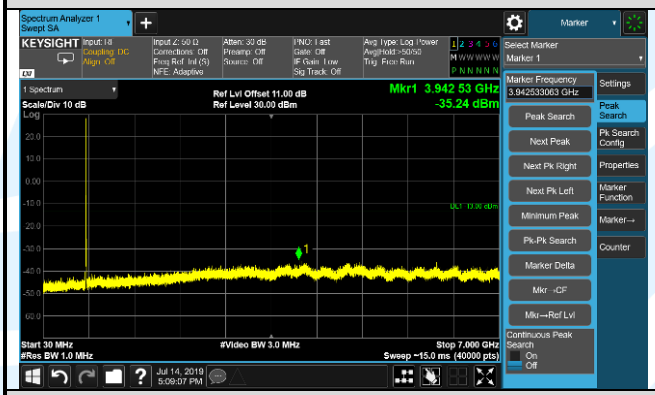
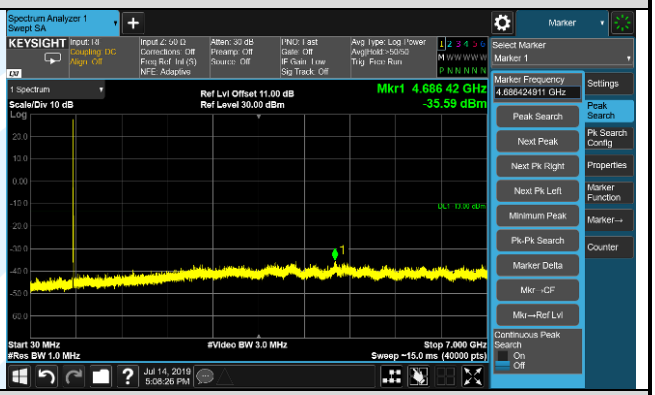
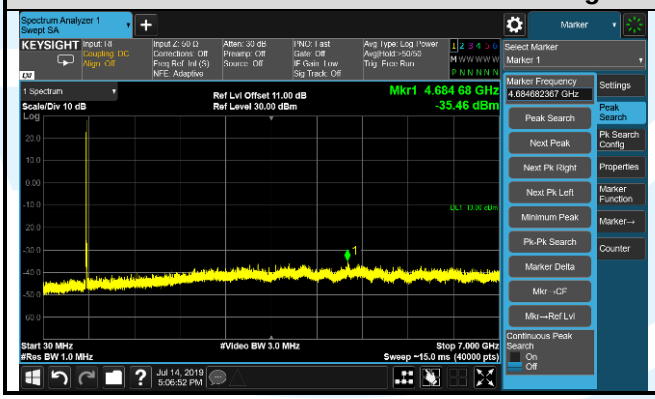
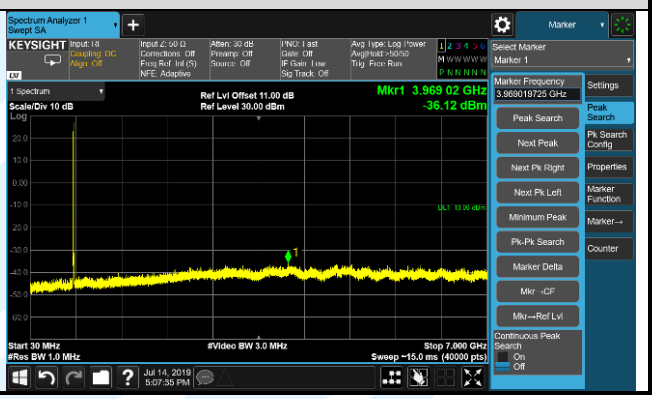
| LTE Band 66_ Channel Bandwidth: 20 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
|  |  |
| **Middle Channel** | |
|  |  |
| **Highest Channel** | |
|  |  |

### 5.7.13 LTE Band 71

| LTE Band 71_ Channel Bandwidth: 5 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
|  |  |
| **Middle Channel** | |
|  |  |
| **Highest Channel** | |
|  |  |

| LTE Band 71_ Channel Bandwidth: 10 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
|  |  |
| **Middle Channel** | |
|  |  |
| **Highest Channel** | |
|  |  |

| LTE Band 71_ Channel Bandwidth: 15 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
|  |  |
| **Middle Channel** | |
|  |  |
| **Highest Channel** | |
|  |  |

| LTE Band 71_ Channel Bandwidth: 20 MHz | |
|---|---|
| QPSK | 16QAM |
| **Lowest Channel** | |
|  |  |
| **Middle Channel** | |
|  |  |
| **Highest Channel** | |
|  |  |

## 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 38 & Band 41:** FCC 47 CFR Part 27.53(m)(4)
**LTE Band 12 & Band 71:** FCC 47 CFR Part 27.53(g)
**LTE Band 13:** FCC 47 CFR Part 27.53
**LTE Band 26:** FCC 47 CFR Part 90.691

**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), 90.691:**
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 | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| **Lowest Channel** | | | | | | | |
| 1 | 3720.000 | -67.54 | 13.80 | -53.74 | -13.00 | -40.74 | Horizontal |
| 2 | 5580.000 | -48.31 | 15.98 | -32.33 | -13.00 | -19.33 | Horizontal |
| 3 | 7440.000 | -65.77 | 18.97 | -46.80 | -13.00 | -33.80 | Horizontal |
| 4 | 3720.000 | -66.42 | 15.18 | -51.24 | -13.00 | -38.24 | Vertical |
| 5 | 5580.000 | -48.44 | 16.87 | -31.57 | -13.00 | -18.57 | Vertical |
| 6 | 7440.000 | -64.41 | 18.41 | -46.00 | -13.00 | -33.00 | Vertical |
| **Middle Channel** | | | | | | | |
| 1 | 3760.000 | -66.50 | 13.87 | -52.63 | -13.00 | -39.63 | Horizontal |
| 2 | 5640.000 | -47.58 | 16.10 | -31.48 | -13.00 | -18.48 | Horizontal |
| 3 | 7520.000 | -64.18 | 19.09 | -45.09 | -13.00 | -32.09 | Horizontal |
| 4 | 3760.000 | -66.15 | 15.28 | -50.87 | -13.00 | -37.87 | Vertical |
| 5 | 5640.000 | -50.45 | 16.97 | -33.48 | -13.00 | -20.48 | Vertical |
| 6 | 7520.000 | -65.06 | 18.48 | -46.58 | -13.00 | -33.58 | Vertical |
| **Highest Channel** | | | | | | | |
| 1 | 3800.000 | -64.96 | 15.39 | -49.57 | -13.00 | -36.57 | Horizontal |
| 2 | 5700.000 | -52.57 | 17.14 | -35.43 | -13.00 | -22.43 | Horizontal |
| 3 | 7600.000 | -65.22 | 18.47 | -46.75 | -13.00 | -33.75 | Horizontal |
| 4 | 3800.000 | -64.62 | 13.95 | -50.67 | -13.00 | -37.67 | Vertical |
| 5 | 5700.000 | -54.27 | 16.28 | -37.99 | -13.00 | -24.99 | Vertical |
| 6 | 7600.000 | -63.77 | 19.09 | -44.68 | -13.00 | -31.68 | Vertical |

### 5.8.2 LTE Band 4

| LTE Band 4_ 20 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| **Lowest Channel** | | | | | | | |
| 1 | 3440.000 | -65.44 | 13.80 | -51.64 | -13.00 | -38.64 | Horizontal |
| 2 | 5160.000 | -54.89 | 17.11 | -37.78 | -13.00 | -24.78 | Horizontal |
| 3 | 6880.000 | -64.48 | 18.25 | -46.23 | -13.00 | -33.23 | Horizontal |
| 4 | 3440.000 | -64.73 | 12.56 | -52.17 | -13.00 | -39.17 | Vertical |
| 5 | 5160.000 | -60.78 | 16.14 | -44.64 | -13.00 | -31.64 | Vertical |
| 6 | 6880.000 | -64.01 | 18.43 | -45.58 | -13.00 | -32.58 | Vertical |
| **Middle Channel** | | | | | | | |
| 1 | 3465.000 | -64.75 | 13.97 | -50.78 | -13.00 | -37.78 | Horizontal |
| 2 | 5197.500 | -56.46 | 17.17 | -39.29 | -13.00 | -26.29 | Horizontal |
| 3 | 6930.000 | -64.94 | 18.10 | -46.84 | -13.00 | -33.84 | Horizontal |
| 4 | 3465.000 | -64.95 | 12.74 | -52.21 | -13.00 | -39.21 | Vertical |
| 5 | 5197.500 | -62.15 | 16.21 | -45.94 | -13.00 | -32.94 | Vertical |
| 6 | 6930.000 | -63.84 | 18.33 | -45.51 | -13.00 | -32.51 | Vertical |
| **Highest Channel** | | | | | | | |
| 1 | 3490.000 | -64.09 | 14.14 | -49.95 | -13.00 | -36.95 | Horizontal |
| 2 | 5235.000 | -56.99 | 17.16 | -39.83 | -13.00 | -26.83 | Horizontal |
| 3 | 6980.000 | -64.35 | 17.94 | -46.41 | -13.00 | -33.41 | Horizontal |
| 4 | 3490.000 | -65.15 | 12.93 | -52.22 | -13.00 | -39.22 | Vertical |
| 5 | 5235.000 | -56.40 | 16.20 | -40.20 | -13.00 | -27.20 | Vertical |
| 6 | 6980.000 | -64.54 | 18.22 | -46.32 | -13.00 | -33.32 | Vertical |

### 5.8.3 LTE Band 5

| LTE Band 5_ 10 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| **Lowest Channel** | | | | | | | |
| 1 | 1658.000 | -62.64 | 2.47 | -60.17 | -13.00 | -47.17 | Horizontal |
| 2 | 2487.000 | -65.85 | 9.16 | -56.69 | -13.00 | -43.69 | Horizontal |
| 3 | 3316.000 | -66.58 | 11.97 | -54.61 | -13.00 | -41.61 | Horizontal |
| 4 | 1658.000 | -63.88 | 4.14 | -59.74 | -13.00 | -46.74 | Vertical |
| 5 | 2487.000 | -66.44 | 11.48 | -54.96 | -13.00 | -41.96 | Vertical |
| 6 | 3316.000 | -66.37 | 13.28 | -53.09 | -13.00 | -40.09 | Vertical |
| **Middle Channel** | | | | | | | |
| 1 | 1673.000 | -62.35 | 2.59 | -59.76 | -13.00 | -46.76 | Horizontal |
| 2 | 2509.500 | -66.05 | 9.17 | -56.88 | -13.00 | -43.88 | Horizontal |
| 3 | 3346.000 | -65.98 | 12.08 | -53.90 | -13.00 | -40.90 | Horizontal |
| 4 | 1673.000 | -62.35 | 4.31 | -58.04 | -13.00 | -45.04 | Vertical |
| 5 | 2509.500 | -65.34 | 11.46 | -53.88 | -13.00 | -40.88 | Vertical |
| 6 | 3341.741 | -65.85 | 13.36 | -52.49 | -13.00 | -39.49 | Vertical |
| **Highest Channel** | | | | | | | |
| 1 | 1688.000 | -63.49 | 2.71 | -60.78 | -13.00 | -47.78 | Horizontal |
| 2 | 2532.000 | -65.87 | 9.21 | -56.66 | -13.00 | -43.66 | Horizontal |
| 3 | 3376.000 | -65.82 | 12.19 | -53.63 | -13.00 | -40.63 | Horizontal |
| 4 | 1688.000 | -63.35 | 4.49 | -58.86 | -13.00 | -45.86 | Vertical |
| 5 | 2532.000 | -65.72 | 11.46 | -54.26 | -13.00 | -41.26 | Vertical |
| 6 | 3376.000 | -66.31 | 13.46 | -52.85 | -13.00 | -39.85 | Vertical |

### 5.8.4 LTE Band 7

| LTE Band 7_ 20 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| **Lowest Channel** | | | | | | | |
| 1 | 5020.000 | -64.78 | 16.89 | -47.89 | -25.00 | -22.89 | Horizontal |
| 2 | 7530.000 | -64.28 | 18.48 | -45.80 | -25.00 | -20.80 | Horizontal |
| 3 | 10040.000 | -66.29 | 21.18 | -45.11 | -25.00 | -20.11 | Horizontal |
| 4 | 5020.000 | -65.10 | 15.89 | -49.21 | -25.00 | -24.21 | Vertical |
| 5 | 7530.000 | -60.47 | 19.08 | -41.39 | -25.00 | -16.39 | Vertical |
| 6 | 10040.000 | -66.43 | 22.26 | -44.17 | -25.00 | -19.17 | Vertical |
| **Middle Channel** | | | | | | | |
| 1 | 5070.000 | -64.21 | 16.97 | -47.24 | -25.00 | -22.24 | Horizontal |
| 2 | 7605.000 | -64.46 | 18.47 | -45.99 | -25.00 | -20.99 | Horizontal |
| 3 | 10140.000 | -65.13 | 21.13 | -44.00 | -25.00 | -19.00 | Horizontal |
| 4 | 5070.000 | -63.94 | 15.98 | -47.96 | -25.00 | -22.96 | Vertical |
| 5 | 7605.000 | -64.37 | 19.09 | -45.28 | -25.00 | -20.28 | Vertical |
| 6 | 10140.000 | -65.64 | 22.41 | -43.23 | -25.00 | -18.23 | Vertical |
| **Highest Channel** | | | | | | | |
| 1 | 5120.000 | -64.81 | 17.05 | -47.76 | -25.00 | -22.76 | Horizontal |
| 2 | 7680.000 | -64.02 | 18.47 | -45.55 | -25.00 | -20.55 | Horizontal |
| 3 | 10240.000 | -63.99 | 21.12 | -42.87 | -25.00 | -17.87 | Horizontal |
| 4 | 5120.000 | -64.04 | 16.07 | -47.97 | -25.00 | -22.97 | Vertical |
| 5 | 7680.000 | -64.52 | 19.10 | -45.42 | -25.00 | -20.42 | Vertical |
| 6 | 10240.000 | -64.82 | 22.60 | -42.22 | -25.00 | -17.22 | Vertical |

### 5.8.5 LTE Band 12

| LTE Band 12_ 10 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| **Lowest Channel** | | | | | | | |
| 1 | 1408.000 | -61.67 | 0.94 | -60.73 | -13.00 | -47.73 | Horizontal |
| 2 | 2112.000 | -64.16 | 5.78 | -58.38 | -13.00 | -45.38 | Horizontal |
| 3 | 2816.000 | -64.84 | 9.93 | -54.91 | -13.00 | -41.91 | Horizontal |
| 4 | 1408.000 | -61.53 | 1.96 | -59.57 | -13.00 | -46.57 | Vertical |
| 5 | 2112.000 | -63.48 | 8.54 | -54.94 | -13.00 | -41.94 | Vertical |
| 6 | 2816.000 | -65.05 | 11.72 | -53.33 | -13.00 | -40.33 | Vertical |
| **Middle Channel** | | | | | | | |
| 1 | 1415.000 | -62.47 | 0.96 | -61.51 | -13.00 | -48.51 | Horizontal |
| 2 | 2122.500 | -64.81 | 5.83 | -58.98 | -13.00 | -45.98 | Horizontal |
| 3 | 2830.000 | -65.03 | 9.98 | -55.05 | -13.00 | -42.05 | Horizontal |
| 4 | 1415.000 | -61.36 | 1.99 | -59.37 | -13.00 | -46.37 | Vertical |
| 5 | 2122.500 | -64.04 | 8.58 | -55.46 | -13.00 | -42.46 | Vertical |
| 6 | 2830.000 | -64.66 | 11.75 | -52.91 | -13.00 | -39.91 | Vertical |
| **Highest Channel** | | | | | | | |
| 1 | 1422.000 | -62.46 | 0.99 | -61.47 | -13.00 | -48.47 | Horizontal |
| 2 | 2133.000 | -62.95 | 5.89 | -57.06 | -13.00 | -44.06 | Horizontal |
| 3 | 2844.000 | -64.91 | 10.03 | -54.88 | -13.00 | -41.88 | Horizontal |
| 4 | 1422.000 | -61.71 | 2.02 | -59.69 | -13.00 | -46.69 | Vertical |
| 5 | 2133.000 | -63.29 | 8.63 | -54.66 | -13.00 | -41.66 | Vertical |
| 6 | 2844.000 | -63.84 | 11.78 | -52.06 | -13.00 | -39.06 | Vertical |

### 5.8.6 LTE Band 13

| LTE Band 13_ 10 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency (MHz) | SA Reading (dBm) | Correction factor (dB/m) | EIRP Result (dBm) | Limit (dBm) | Margin (dB) | Ant. Pol. |
| Middle Channel | | | | | | | |
| 1 | 1564.000 | -62.46 | 1.74 | -60.72 | -13.00 | -47.72 | Horizontal |
| 2 | 2346.000 | -64.16 | 8.36 | -55.80 | -13.00 | -42.80 | Horizontal |
| 3 | 3128.000 | -65.11 | 11.19 | -53.92 | -13.00 | -40.92 | Horizontal |
| 4 | 1564.000 | -62.52 | 3.07 | -59.45 | -13.00 | -46.45 | Vertical |
| 5 | 2346.000 | -63.97 | 10.84 | -53.13 | -13.00 | -40.13 | Vertical |
| 6 | 3128.000 | -64.38 | 12.61 | -51.77 | -13.00 | -38.77 | Vertical |

### 5.8.7 LTE Band 25

| LTE Band 25_ 20 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency (MHz) | SA Reading (dBm) | Correction factor (dB/m) | EIRP Result (dBm) | Limit (dBm) | Margin (dB) | Ant. Pol. |
| Lowest Channel | | | | | | | |
| 1 | 3720.000 | -61.55 | 15.18 | -46.37 | -13.00 | -33.37 | Horizontal |
| 2 | 5580.000 | -48.81 | 16.87 | -31.94 | -13.00 | -18.94 | Horizontal |
| 3 | 7440.000 | -63.65 | 18.41 | -45.24 | -13.00 | -32.24 | Horizontal |
| 4 | 3720.000 | -63.21 | 13.80 | -49.41 | -13.00 | -36.41 | Vertical |
| 5 | 5580.000 | -41.20 | 15.98 | -25.22 | -13.00 | -12.22 | Vertical |
| 6 | 7440.000 | -64.09 | 18.97 | -45.12 | -13.00 | -32.12 | Vertical |
| Middle Channel | | | | | | | |
| 1 | 3760.000 | -61.57 | 15.28 | -46.29 | -13.00 | -33.29 | Horizontal |
| 2 | 5640.000 | -54.76 | 16.97 | -37.79 | -13.00 | -24.79 | Horizontal |
| 3 | 7520.000 | -63.30 | 18.48 | -44.82 | -13.00 | -31.82 | Horizontal |
| 4 | 3760.000 | -64.33 | 13.87 | -50.46 | -13.00 | -37.46 | Vertical |
| 5 | 5640.000 | -42.41 | 16.10 | -26.31 | -13.00 | -13.31 | Vertical |
| 6 | 7520.000 | -62.36 | 19.09 | -43.27 | -13.00 | -30.27 | Vertical |
| Highest Channel | | | | | | | |
| 1 | 3810.000 | -61.65 | 15.41 | -46.24 | -13.00 | -33.24 | Horizontal |
| 2 | 5715.000 | -51.29 | 17.19 | -34.10 | -13.00 | -21.10 | Horizontal |
| 3 | 7620.000 | -63.96 | 18.47 | -45.49 | -13.00 | -32.49 | Horizontal |
| 4 | 3810.000 | -63.21 | 13.96 | -49.25 | -13.00 | -36.25 | Vertical |
| 5 | 5715.000 | -48.96 | 16.33 | -32.63 | -13.00 | -19.63 | Vertical |
| 6 | 7620.000 | -64.65 | 19.10 | -45.55 | -13.00 | -32.55 | Vertical |

### 5.8.8 LTE Band 26

| LTE Band 26_ 15 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| **Lowest Channel** | | | | | | | |
| 1 | 1629.400 | -62.81 | 2.25 | -60.56 | -13.00 | -47.56 | Horizontal |
| 2 | 2444.100 | -63.98 | 9.15 | -54.83 | -13.00 | -41.83 | Horizontal |
| 3 | 3258.800 | -65.01 | 11.77 | -53.24 | -13.00 | -40.24 | Horizontal |
| 4 | 1629.400 | -62.62 | 3.82 | -58.80 | -13.00 | -45.80 | Vertical |
| 5 | 2444.100 | -64.61 | 11.52 | -53.09 | -13.00 | -40.09 | Vertical |
| 6 | 3258.800 | -65.10 | 13.11 | -51.99 | -13.00 | -38.99 | Vertical |
| **Middle Channel** | | | | | | | |
| 1 | 1638.000 | -62.58 | 2.32 | -60.26 | -13.00 | -47.26 | Horizontal |
| 2 | 2457.000 | -64.28 | 9.15 | -55.13 | -13.00 | -42.13 | Horizontal |
| 3 | 3276.000 | -64.26 | 11.83 | -52.43 | -13.00 | -39.43 | Horizontal |
| 4 | 1638.000 | -62.66 | 3.92 | -58.74 | -13.00 | -45.74 | Vertical |
| 5 | 2457.000 | -64.28 | 11.50 | -52.78 | -13.00 | -39.78 | Vertical |
| 6 | 3276.000 | -64.76 | 13.16 | -51.60 | -13.00 | -38.60 | Vertical |
| **Highest Channel** | | | | | | | |
| 1 | 1643.000 | -58.34 | 2.36 | -55.98 | -13.00 | -42.98 | Horizontal |
| 2 | 2464.500 | -63.94 | 9.16 | -54.78 | -13.00 | -41.78 | Horizontal |
| 3 | 3286.000 | -63.77 | 11.86 | -51.91 | -13.00 | -38.91 | Horizontal |
| 4 | 1643.000 | -61.38 | 3.97 | -57.41 | -13.00 | -44.41 | Vertical |
| 5 | 2464.500 | -63.99 | 11.51 | -52.48 | -13.00 | -39.48 | Vertical |
| 6 | 3286.000 | -62.36 | 13.18 | -49.18 | -13.00 | -36.18 | Vertical |

### 5.8.9 LTE Band 26 (Part 90S)

| LTE Band 26_ 10 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| **Lowest Channel** | | | | | | | |
| 1 | 1663.000 | -62.77 | 2.51 | -60.26 | -13.00 | -47.26 | Horizontal |
| 2 | 2494.500 | -65.04 | 9.16 | -55.88 | -13.00 | -42.88 | Horizontal |
| 3 | 3326.000 | -64.90 | 12.01 | -52.89 | -13.00 | -39.89 | Horizontal |
| 4 | 1663.000 | -61.88 | 4.20 | -57.68 | -13.00 | -44.68 | Vertical |
| 5 | 2494.500 | -63.74 | 11.47 | -52.27 | -13.00 | -39.27 | Vertical |
| 6 | 3326.000 | -63.74 | 13.31 | -50.43 | -13.00 | -37.43 | Vertical |
| **Middle Channel** | | | | | | | |
| 1 | 1673.000 | -63.34 | 2.59 | -60.75 | -13.00 | -47.75 | Horizontal |
| 2 | 2509.500 | -63.61 | 9.17 | -54.44 | -13.00 | -41.44 | Horizontal |
| 3 | 3346.000 | -64.69 | 12.08 | -52.61 | -13.00 | -39.61 | Horizontal |
| 4 | 1673.000 | -62.39 | 4.31 | -58.08 | -13.00 | -45.08 | Vertical |
| 5 | 2509.500 | -63.88 | 11.46 | -52.42 | -13.00 | -39.42 | Vertical |
| 6 | 3346.000 | -64.20 | 13.37 | -50.83 | -13.00 | -37.83 | Vertical |
| **Highest Channel** | | | | | | | |
| 1 | 1683.000 | -62.96 | 2.66 | -60.30 | -13.00 | -47.30 | Horizontal |
| 2 | 2524.500 | -63.41 | 9.20 | -54.21 | -13.00 | -41.21 | Horizontal |
| 3 | 3366.000 | -64.90 | 12.15 | -52.75 | -13.00 | -39.75 | Horizontal |
| 4 | 1683.000 | -62.19 | 4.42 | -57.77 | -13.00 | -44.77 | Vertical |
| 5 | 2524.500 | -63.95 | 11.46 | -52.49 | -13.00 | -39.49 | Vertical |
| 6 | 3366.000 | -63.62 | 13.43 | -50.19 | -13.00 | -37.19 | Vertical |

### 5.8.10 LTE Band 38

| LTE Band 38_ 20 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| **Lowest Channel** | | | | | | | |
| 1 | 5160.000 | -63.92 | 17.11 | -46.81 | -25.00 | -21.81 | Horizontal |
| 2 | 7740.000 | -63.48 | 18.47 | -45.01 | -25.00 | -20.01 | Horizontal |
| 3 | 10320.000 | -64.84 | 21.14 | -43.70 | -25.00 | -18.70 | Horizontal |
| 4 | 5160.000 | -63.54 | 16.14 | -47.40 | -25.00 | -22.40 | Vertical |
| 5 | 7740.000 | -60.81 | 19.12 | -41.69 | -25.00 | -16.69 | Vertical |
| 6 | 10320.000 | -65.02 | 22.78 | -42.24 | -25.00 | -17.24 | Vertical |
| **Middle Channel** | | | | | | | |
| 1 | 5190.000 | -64.10 | 17.15 | -46.95 | -25.00 | -21.95 | Horizontal |
| 2 | 7785.000 | -63.18 | 18.47 | -44.71 | -25.00 | -19.71 | Horizontal |
| 3 | 10380.000 | -64.67 | 21.18 | -43.49 | -25.00 | -18.49 | Horizontal |
| 4 | 5190.000 | -63.79 | 16.19 | -47.60 | -25.00 | -22.60 | Vertical |
| 5 | 7785.000 | -63.25 | 19.12 | -44.13 | -25.00 | -19.13 | Vertical |
| 6 | 10380.000 | -64.92 | 22.94 | -41.98 | -25.00 | -16.98 | Vertical |
| **Highest Channel** | | | | | | | |
| 1 | 5220.000 | -62.87 | 17.16 | -45.71 | -25.00 | -20.71 | Horizontal |
| 2 | 7830.000 | -63.14 | 18.44 | -44.70 | -25.00 | -19.70 | Horizontal |
| 3 | 10320.000 | -63.19 | 21.14 | -42.05 | -25.00 | -17.05 | Horizontal |
| 4 | 5220.000 | -63.92 | 16.20 | -47.72 | -25.00 | -22.72 | Vertical |
| 5 | 7830.000 | -57.10 | 19.10 | -38.00 | -25.00 | -13.00 | Vertical |
| 6 | 10320.000 | -64.51 | 22.78 | -41.73 | -25.00 | -16.73 | Vertical |

### 5.8.11 LTE Band 41

| LTE Band 41_ 20 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| **Lowest Channel** | | | | | | | |
| 1 | 5012.000 | -62.91 | 16.88 | -46.03 | -25.00 | -21.03 | Horizontal |
| 2 | 7518.000 | -61.97 | 18.48 | -43.49 | -25.00 | -18.49 | Horizontal |
| 3 | 10024.000 | -64.82 | 21.17 | -43.65 | -25.00 | -18.65 | Horizontal |
| 4 | 5012.000 | -61.47 | 15.88 | -45.59 | -25.00 | -20.59 | Vertical |
| 5 | 7518.000 | -63.28 | 19.09 | -44.19 | -25.00 | -19.19 | Vertical |
| 6 | 10024.000 | -65.66 | 22.22 | -43.44 | -25.00 | -18.44 | Vertical |
| **Middle Channel** | | | | | | | |
| 1 | 5186.000 | -63.32 | 17.15 | -46.17 | -25.00 | -21.17 | Horizontal |
| 2 | 7779.000 | -63.62 | 18.46 | -45.16 | -25.00 | -20.16 | Horizontal |
| 3 | 10372.000 | -64.51 | 21.16 | -43.35 | -25.00 | -18.35 | Horizontal |
| 4 | 5186.000 | -64.44 | 16.19 | -48.25 | -25.00 | -23.25 | Vertical |
| 5 | 7779.000 | -60.60 | 19.11 | -41.49 | -25.00 | -16.49 | Vertical |
| 6 | 10372.000 | -65.62 | 22.91 | -42.71 | -25.00 | -17.71 | Vertical |
| **Highest Channel** | | | | | | | |
| 1 | 5360.000 | -63.18 | 17.11 | -46.07 | -25.00 | -21.07 | Horizontal |
| 2 | 8040.000 | -64.80 | 18.33 | -46.47 | -25.00 | -21.47 | Horizontal |
| 3 | 10720.000 | -65.02 | 21.04 | -43.98 | -25.00 | -18.98 | Horizontal |
| 4 | 5360.000 | -65.94 | 16.18 | -49.76 | -25.00 | -24.76 | Vertical |
| 5 | 8040.000 | -64.52 | 19.03 | -45.49 | -25.00 | -20.49 | Vertical |
| 6 | 10720.000 | -64.25 | 22.95 | -41.30 | -25.00 | -16.30 | Vertical |

### 5.8.12 LTE Band 66

| LTE Band 66_ 20 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| **Lowest Channel** | | | | | | | |
| 1 | 3440.000 | -66.14 | 13.80 | -52.34 | -13.00 | -39.34 | Horizontal |
| 2 | 5160.000 | -66.12 | 17.11 | -49.01 | -13.00 | -36.01 | Horizontal |
| 3 | 6881.560 | -54.01 | 18.25 | -35.76 | -13.00 | -22.76 | Horizontal |
| 4 | 3440.000 | -66.75 | 12.56 | -54.19 | -13.00 | -41.19 | Vertical |
| 5 | 5160.000 | -67.97 | 16.14 | -51.83 | -13.00 | -38.83 | Vertical |
| 6 | 6881.560 | -55.00 | 18.43 | -36.57 | -13.00 | -23.57 | Vertical |
| **Middle Channel** | | | | | | | |
| 1 | 3490.000 | -63.48 | 14.14 | -49.34 | -13.00 | -36.34 | Horizontal |
| 2 | 5235.000 | -62.91 | 17.16 | -45.75 | -13.00 | -32.75 | Horizontal |
| 3 | 6980.000 | -52.11 | 17.94 | -34.17 | -13.00 | -21.17 | Horizontal |
| 4 | 3490.000 | -63.46 | 12.93 | -50.53 | -13.00 | -37.53 | Vertical |
| 5 | 5235.000 | -69.31 | 16.20 | -53.11 | -13.00 | -40.11 | Vertical |
| 6 | 6980.000 | -56.18 | 18.22 | -37.96 | -13.00 | -24.96 | Vertical |
| **Highest Channel** | | | | | | | |
| 1 | 3540.000 | -65.89 | 14.47 | -51.42 | -13.00 | -38.42 | Horizontal |
| 2 | 5310.000 | -65.08 | 17.13 | -47.95 | -13.00 | -34.95 | Horizontal |
| 3 | 7080.000 | -57.65 | 17.97 | -39.68 | -13.00 | -26.68 | Horizontal |
| 4 | 3540.000 | -67.02 | 13.24 | -53.78 | -13.00 | -40.78 | Vertical |
| 5 | 5310.000 | -66.38 | 16.19 | -50.19 | -13.00 | -37.19 | Vertical |
| 6 | 7080.000 | -59.67 | 18.31 | -41.36 | -13.00 | -28.36 | Vertical |

### 5.8.13 LTE Band 71

| LTE Band 71_ 20 MHz_ QPSK | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| **Lowest Channel** | | | | | | | |
| 1 | 1346.000 | -60.70 | 0.75 | -59.95 | -13.00 | -46.95 | Horizontal |
| 2 | 2019.000 | -64.04 | 5.31 | -58.73 | -13.00 | -45.73 | Horizontal |
| 3 | 2692.000 | -64.80 | 9.56 | -55.24 | -13.00 | -42.24 | Horizontal |
| 4 | 1346.000 | -61.26 | 1.73 | -59.53 | -13.00 | -46.53 | Vertical |
| 5 | 2019.000 | -63.23 | 8.18 | -55.05 | -13.00 | -42.05 | Vertical |
| 6 | 2692.000 | -63.15 | 11.55 | -51.60 | -13.00 | -38.60 | Vertical |
| **Middle Channel** | | | | | | | |
| 1 | 1361.000 | -60.52 | 0.80 | -59.72 | -13.00 | -46.72 | Horizontal |
| 2 | 2041.500 | -63.14 | 5.41 | -57.73 | -13.00 | -44.73 | Horizontal |
| 3 | 2717.029 | -65.22 | 9.63 | -55.59 | -13.00 | -42.59 | Horizontal |
| 4 | 1361.000 | -61.19 | 1.79 | -59.40 | -13.00 | -46.40 | Vertical |
| 5 | 2041.500 | -63.44 | 8.26 | -55.18 | -13.00 | -42.18 | Vertical |
| 6 | 2717.029 | -64.16 | 11.58 | -52.58 | -13.00 | -39.58 | Vertical |
| **Highest Channel** | | | | | | | |
| 1 | 1381.000 | -60.04 | 0.86 | -59.18 | -13.00 | -46.18 | Horizontal |
| 2 | 2071.500 | -62.90 | 5.57 | -57.33 | -13.00 | -44.33 | Horizontal |
| 3 | 2762.000 | -62.69 | 9.77 | -52.92 | -13.00 | -39.92 | Horizontal |
| 4 | 1381.000 | -61.60 | 1.87 | -59.73 | -13.00 | -46.73 | Vertical |
| 5 | 2071.500 | -62.24 | 8.39 | -53.85 | -13.00 | -40.85 | Vertical |
| 6 | 2762.000 | -64.69 | 11.65 | -53.04 | -13.00 | -40.04 | 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, FCC 47 CFR Par 90.213**

The carrier frequency shall not depart from the reference frequency in excess of ±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° to + 50°C
   b) Voltage =low voltage, 3.5 Vdc, Normal, 3.7 Vdc and High voltage, 4.2 Vdc.
2) Frequency Stability vs Temperature:

The EUT is place inside a temperature chamber. The temperature is set to 20ºC 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 +50ºC 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/ Frequency (MHz) | Voltage (Vdc) | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Pass/ Fail |
|---|---|---|---|---|---|---|---|
| LTE Band 2 / 20MHz / Full RB | | | | | | | |
| QPSK | 18900 / 1880.0 | VL | TN | 2 | 0.0011 | N/A | Pass |
| | | VN | | 3 | 0.0016 | | Pass |
| | | VH | | 5 | 0.0027 | | Pass |
| | | VN | 50 | -3 | -0.0016 | | Pass |
| | | | 40 | -6 | -0.0032 | | Pass |
| | | | 30 | 7 | 0.0037 | | Pass |
| | | | 20 | 4 | 0.0021 | | Pass |
| | | | 10 | 6 | 0.0032 | | Pass |
| | | | 0 | 3 | 0.0016 | | Pass |
| | | | -10 | 4 | 0.0021 | | Pass |
| | | | -20 | 3 | 0.0016 | | Pass |
| | | | -30 | 6 | 0.0032 | | Pass |

### 5.9.2 LTE Band 4

| Modulation | Channel/ Frequency | Voltage | Temperature | Deviation | Deviation | Limit | Pass/ Fail |
|---|---|---|---|---|---|---|---|
| | (MHz) | (Vdc) | (℃) | (Hz) | (ppm) | (ppm) | |
| LTE Band 4 / 20MHz / Full RB | | | | | | | |
| QPSK | 20175 / 1732.5 | VL | TN | 6 | 0.0035 | N/A | Pass |
| | | VN | | 7 | 0.0040 | | Pass |
| | | VH | | 9 | 0.0052 | | Pass |
| | | VN | 50 | 4 | 0.0023 | | Pass |
| | | | 40 | 6 | 0.0035 | | Pass |
| | | | 30 | 3 | 0.0017 | | Pass |
| | | | 20 | 7 | 0.0040 | | Pass |
| | | | 10 | 8 | 0.0046 | | Pass |
| | | | 0 | 4 | 0.0023 | | Pass |
| | | | -10 | 3 | 0.0017 | | Pass |
| | | | -20 | 5 | 0.0029 | | Pass |
| | | | -30 | 7 | 0.0040 | | Pass |

### 5.9.3 LTE Band 5

| Modulation | Channel/ Frequency | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|---|---|---|---|---|---|---|---|
| | (MHz) | (Vdc) | (℃) | (Hz) | (ppm) | (ppm) | |
| LTE Band 5 / 10MHz / Full RB | | | | | | | |
| QPSK | 20525 / 836.5 | VL | TN | -7 | -0.0084 | ± 2.5 | Pass |
| | | VN | | -12 | -0.0143 | ± 2.5 | Pass |
| | | VH | | -10 | -0.0120 | ± 2.5 | Pass |
| | | VN | 50 | -14 | -0.0167 | ± 2.5 | Pass |
| | | | 40 | -15 | -0.0179 | ± 2.5 | Pass |
| | | | 30 | -12 | -0.0143 | ± 2.5 | Pass |
| | | | 20 | -11 | -0.0132 | ± 2.5 | Pass |
| | | | 10 | -9 | -0.0108 | ± 2.5 | Pass |
| | | | 0 | -7 | -0.0084 | ± 2.5 | Pass |
| | | | -10 | -6 | -0.0072 | ± 2.5 | Pass |
| | | | -20 | -12 | -0.0143 | ± 2.5 | Pass |
| | | | -30 | -14 | -0.0167 | ± 2.5 | Pass |

### 5.9.4 LTE Band 7

| Modulation | Channel/ Frequency | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|---|---|---|---|---|---|---|---|
| | (MHz) | (Vdc) | (℃) | (Hz) | (ppm) | (ppm) | |
| LTE Band 7 / 20MHz / Full RB | | | | | | | |
| QPSK | 21100 / 2535 | VL | TN | -5 | -0.0020 | N/A | Pass |
| | | VN | | -4 | -0.0016 | | Pass |
| | | VH | | -8 | -0.0032 | | Pass |
| | | VN | 50 | -3 | -0.0012 | | Pass |
| | | | 40 | -5 | -0.0020 | | Pass |
| | | | 30 | -4 | -0.0016 | | Pass |
| | | | 20 | -7 | -0.0028 | | Pass |
| | | | 10 | -5 | -0.0020 | | Pass |
| | | | 0 | -8 | -0.0032 | | Pass |
| | | | -10 | -4 | -0.0016 | | Pass |
| | | | -20 | -7 | -0.0028 | | Pass |
| | | | -30 | -9 | -0.0036 | | Pass |

### 5.9.5 LTE Band 12

| Modulation | Channel/ Frequency | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|---|---|---|---|---|---|---|---|
| | (MHz) | (Vdc) | (℃) | (Hz) | (ppm) | (ppm) | |
| LTE Band 12 / 10MHz / Full RB | | | | | | | |
| QPSK | 23095 / 707.5 | VL | TN | -7 | -0.0099 | N/A | Pass |
| | | VN | | -13 | -0.0184 | | Pass |
| | | VH | | -12 | -0.0170 | | Pass |
| | | VN | 50 | -9 | -0.0127 | | Pass |
| | | | 40 | -12 | -0.0170 | | Pass |
| | | | 30 | -13 | -0.0184 | | Pass |
| | | | 20 | -10 | -0.0141 | | Pass |
| | | | 10 | -12 | -0.0170 | | Pass |
| | | | 0 | -17 | -0.0240 | | Pass |
| | | | -10 | -16 | -0.0226 | | Pass |
| | | | -20 | -13 | -0.0184 | | Pass |
| | | | -30 | -17 | -0.0240 | | Pass |

### 5.9.6 LTE Band 13

| Modulation | Channel/ Frequency (MHz) | Voltage (Vdc) | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Result |
|---|---|---|---|---|---|---|---|
| LTE Band 13 / 10MHz / Full RB | | | | | | | |
| QPSK | 23230 / 782 | VL | TN | -5 | -0.0064 | N/A | Pass |
| | | VN | | -4 | -0.0051 | | Pass |
| | | VH | | -8 | -0.0102 | | Pass |
| | | VN | 50 | -12 | -0.0153 | | Pass |
| | | | 40 | -9 | -0.0115 | | Pass |
| | | | 30 | -11 | -0.0141 | | Pass |
| | | | 20 | -10 | -0.0128 | | Pass |
| | | | 10 | -6 | -0.0077 | | Pass |
| | | | 0 | -8 | -0.0102 | | Pass |
| | | | -10 | -13 | -0.0166 | | Pass |
| | | | -20 | -12 | -0.0153 | | Pass |
| | | | -30 | -10 | -0.0128 | | Pass |

### 5.9.7 LTE Band 25

| Modulation | Channel/ Frequency (MHz) | Voltage (Vdc) | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Result |
|---|---|---|---|---|---|---|---|
| LTE Band 25 / 20MHz / Full RB | | | | | | | |
| QPSK | 26340 / 1880.0 | VL | TN | 7 | 0.0037 | N/A | Pass |
| | | VN | | 4 | 0.0021 | | Pass |
| | | VH | | 8 | 0.0043 | | Pass |
| | | VN | 50 | 3 | 0.0016 | | Pass |
| | | | 40 | 4 | 0.0021 | | Pass |
| | | | 30 | 5 | 0.0027 | | Pass |
| | | | 20 | 5 | 0.0027 | | Pass |
| | | | 10 | 2 | 0.0011 | | Pass |
| | | | 0 | 3 | 0.0016 | | Pass |
| | | | -10 | 7 | 0.0037 | | Pass |
| | | | -20 | 4 | 0.0021 | | Pass |
| | | | -30 | 9 | 0.0048 | | Pass |

### 5.9.8 LTE Band 26

| Modulation | Channel/ Frequency | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|---|---|---|---|---|---|---|---|
| | (MHz) | (Vdc) | (℃) | (Hz) | (ppm) | (ppm) | |
| LTE Band 26 / 15MHz / Full RB | | | | | | | |
| QPSK | 26915 / 836.5 | VL | TN | -9 | -0.0108 | ± 2.5 | Pass |
| | | VN | | -11 | -0.0132 | ± 2.5 | Pass |
| | | VH | | -12 | -0.0143 | ± 2.5 | Pass |
| | | VN | 50 | -8 | -0.0096 | ± 2.5 | Pass |
| | | | 40 | -13 | -0.0155 | ± 2.5 | Pass |
| | | | 30 | -13 | -0.0155 | ± 2.5 | Pass |
| | | | 20 | -19 | -0.0227 | ± 2.5 | Pass |
| | | | 10 | -13 | -0.0155 | ± 2.5 | Pass |
| | | | 0 | -8 | -0.0096 | ± 2.5 | Pass |
| | | | -10 | -11 | -0.0132 | ± 2.5 | Pass |
| | | | -20 | -15 | -0.0179 | ± 2.5 | Pass |
| | | | -30 | -14 | -0.0167 | ± 2.5 | Pass |

### 5.9.9 LTE Band 26 (Part 90S)

| Modulation | Channel/ Frequency | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|---|---|---|---|---|---|---|---|
| | (MHz) | (Vdc) | (℃) | (Hz) | (ppm) | (ppm) | |
| LTE Band 26 / 10MHz / Full RB | | | | | | | |
| QPSK | 26740 / 819 | VL | TN | -11 | -0.0134 | ± 2.5 | Pass |
| | | VN | | -15 | -0.0183 | ± 2.5 | Pass |
| | | VH | | -13 | -0.0159 | ± 2.5 | Pass |
| | | VN | 50 | -9 | -0.0110 | ± 2.5 | Pass |
| | | | 40 | -10 | -0.0122 | ± 2.5 | Pass |
| | | | 30 | -11 | -0.0134 | ± 2.5 | Pass |
| | | | 20 | -15 | -0.0183 | ± 2.5 | Pass |
| | | | 10 | -14 | -0.0171 | ± 2.5 | Pass |
| | | | 0 | -18 | -0.0220 | ± 2.5 | Pass |
| | | | -10 | -15 | -0.0183 | ± 2.5 | Pass |
| | | | -20 | -16 | -0.0195 | ± 2.5 | Pass |
| | | | -30 | -12 | -0.0147 | ± 2.5 | Pass |

### 5.9.10 LTE Band 38

| Modulation | Channel/ Frequency | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|---|---|---|---|---|---|---|---|
| | (MHz) | (Vdc) | (℃) | (Hz) | (ppm) | (ppm) | |
| LTE Band 38 / 20MHz / Full RB | | | | | | | |
| QPSK | 38000 /2595 | VL | TN | -10 | -0.0039 | N/A | Pass |
| | | VN | | -8 | -0.0031 | | Pass |
| | | VH | | -7 | -0.0027 | | Pass |
| | | VN | 50 | -5 | -0.0019 | | Pass |
| | | | 40 | -7 | -0.0027 | | Pass |
| | | | 30 | -4 | -0.0015 | | Pass |
| | | | 20 | -12 | -0.0046 | | Pass |
| | | | 10 | -9 | -0.0035 | | Pass |
| | | | 0 | -7 | -0.0027 | | Pass |
| | | | -10 | -6 | -0.0023 | | Pass |
| | | | -20 | -8 | -0.0031 | | Pass |
| | | | -30 | -10 | -0.0039 | | Pass |

### 5.9.11 LTE Band 41

| Modulation | Channel/ Frequency | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|---|---|---|---|---|---|---|---|
| | (MHz) | (Vdc) | (℃) | (Hz) | (ppm) | (ppm) | |
| LTE Band 41 / 20MHz / Full RB | | | | | | | |
| QPSK | 40620 / 2593 | VL | TN | 8 | 0.0031 | N/A | Pass |
| | | VN | | 4 | 0.0015 | | Pass |
| | | VH | | 6 | 0.0023 | | Pass |
| | | VN | 50 | 4 | 0.0015 | | Pass |
| | | | 40 | 5 | 0.0019 | | Pass |
| | | | 30 | 7 | 0.0027 | | Pass |
| | | | 20 | 9 | 0.0035 | | Pass |
| | | | 10 | 7 | 0.0027 | | Pass |
| | | | 0 | 6 | 0.0023 | | Pass |
| | | | -10 | 5 | 0.0019 | | Pass |
| | | | -20 | 10 | 0.0039 | | Pass |
| | | | -30 | 9 | 0.0035 | | Pass |

### 5.9.12 LTE Band 66

| Modulation | Channel/ Frequency | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|---|---|---|---|---|---|---|---|
| | (MHz) | (Vdc) | (℃) | (Hz) | (ppm) | (ppm) | |
| LTE Band 66 / 20MHz / Full RB | | | | | | | |
| QPSK | 132322 / 1745 | VL | TN | -14 | -0.0080 | N/A | Pass |
| | | VN | | -7 | -0.0040 | | Pass |
| | | VH | | -8 | -0.0046 | | Pass |
| | | VN | 50 | -11 | -0.0063 | | Pass |
| | | | 40 | -13 | -0.0074 | | Pass |
| | | | 30 | -9 | -0.0052 | | Pass |
| | | | 20 | -4 | -0.0023 | | Pass |
| | | | 10 | -7 | -0.0040 | | Pass |
| | | | 0 | -8 | -0.0046 | | Pass |
| | | | -10 | -12 | -0.0069 | | Pass |
| | | | -20 | -14 | -0.0080 | | Pass |
| | | | -30 | -7 | -0.0040 | | Pass |

### 5.9.13 LTE Band 71

| Modulation | Channel/ Frequency | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|---|---|---|---|---|---|---|---|
| | (MHz) | (Vdc) | (℃) | (Hz) | (ppm) | (ppm) | |
| LTE Band 71 / 20MHz / Full RB | | | | | | | |
| QPSK | 133322 / 683 | VL | TN | -13 | -0.0190 | N/A | Pass |
| | | VN | | -11 | -0.0161 | | Pass |
| | | VH | | -12 | -0.0176 | | Pass |
| | | VN | 50 | -9 | -0.0132 | | Pass |
| | | | 40 | -5 | -0.0073 | | Pass |
| | | | 30 | -4 | -0.0059 | | Pass |
| | | | 20 | -3 | -0.0044 | | Pass |
| | | | 10 | -3 | -0.0044 | | Pass |
| | | | 0 | -5 | -0.0073 | | Pass |
| | | | -10 | -7 | -0.0102 | | Pass |
| | | | -20 | -3 | -0.0044 | | Pass |
| | | | -30 | -6 | -0.0088 | | 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 ***