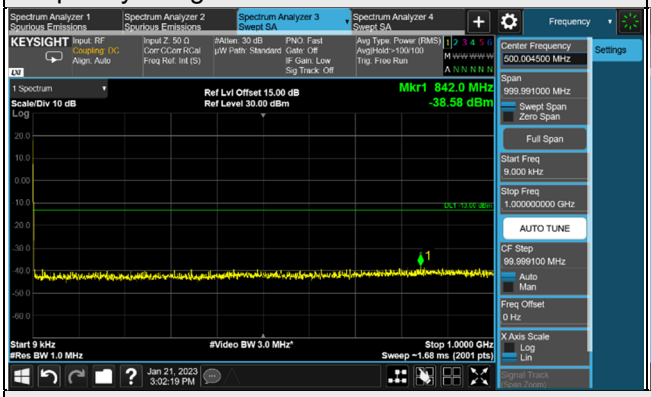
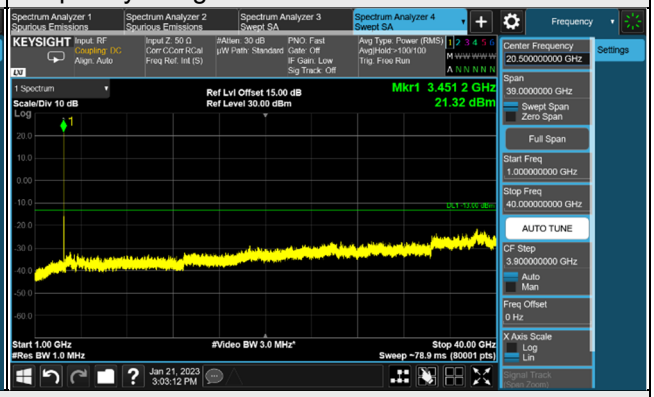
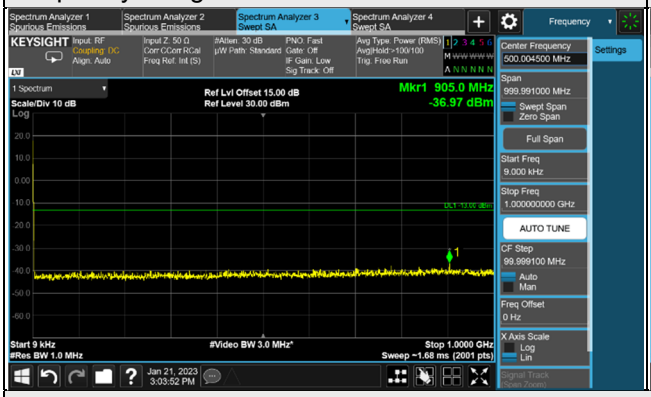
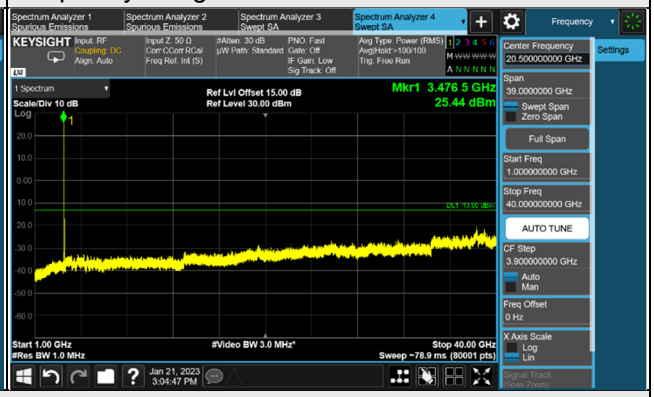
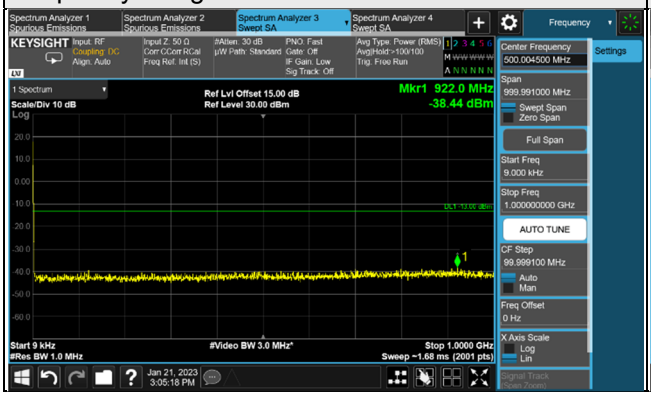
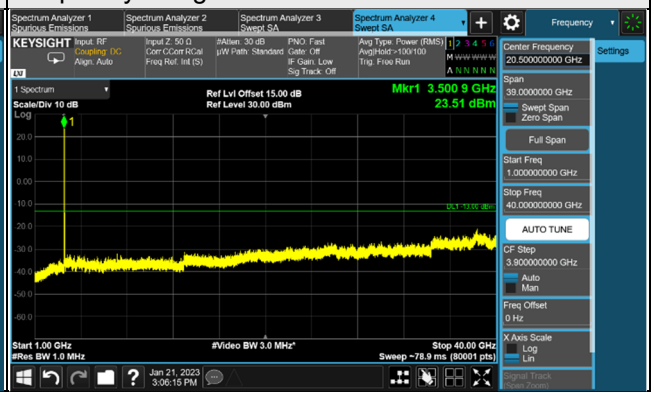
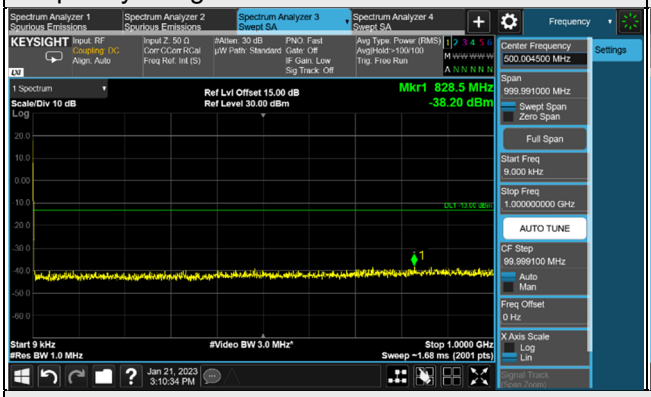
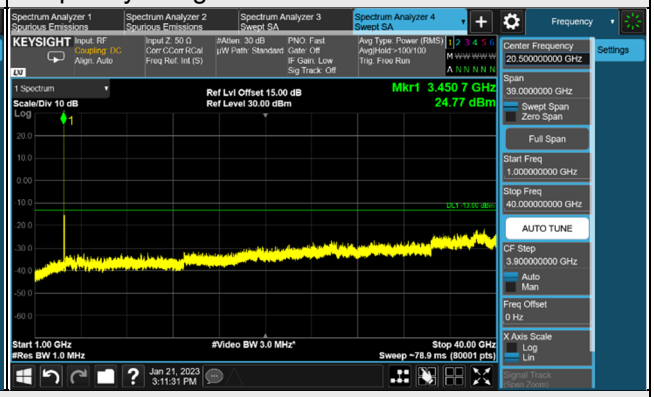
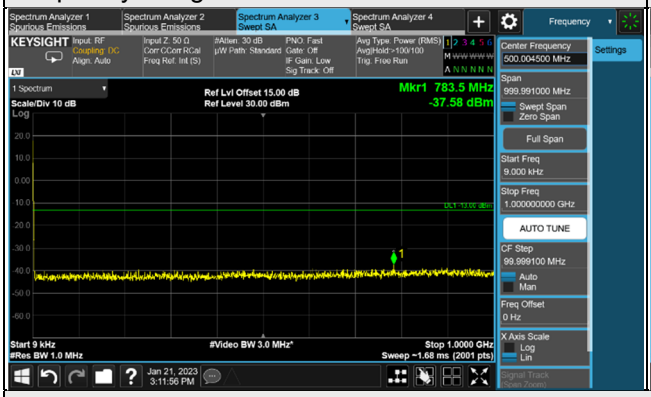
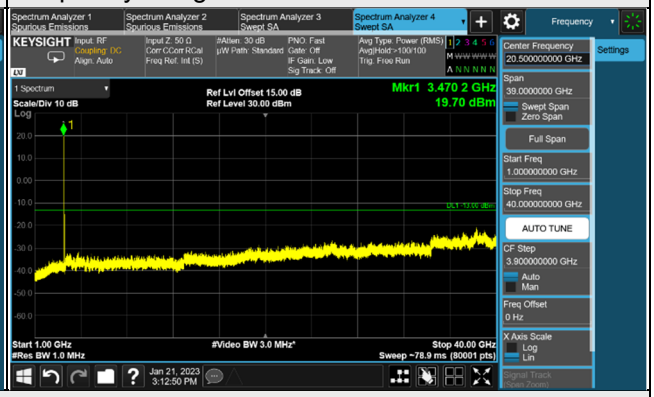
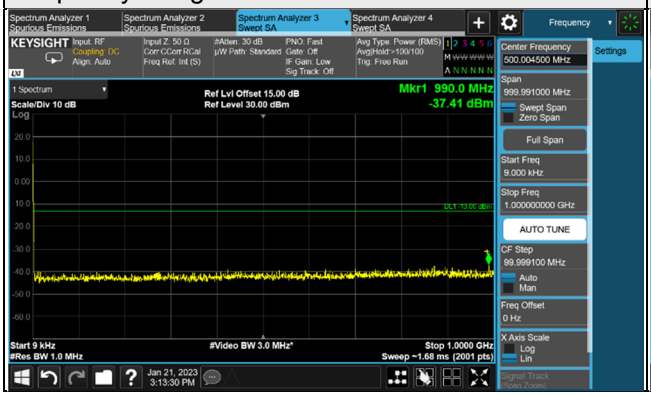
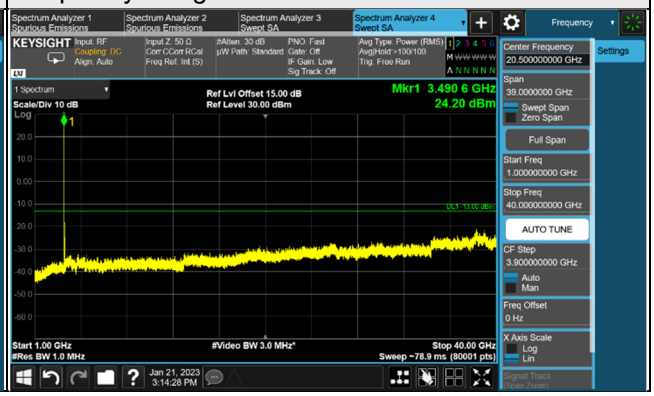
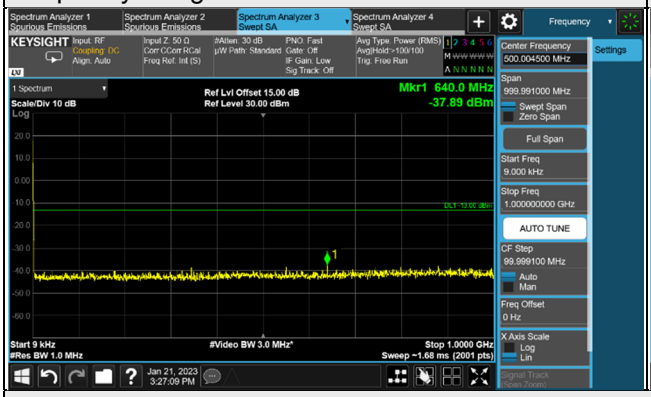
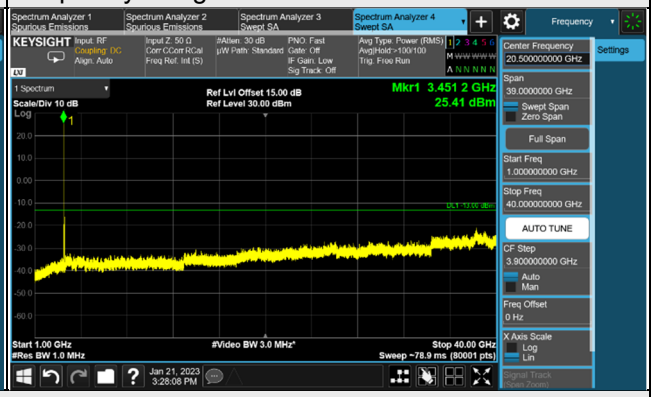
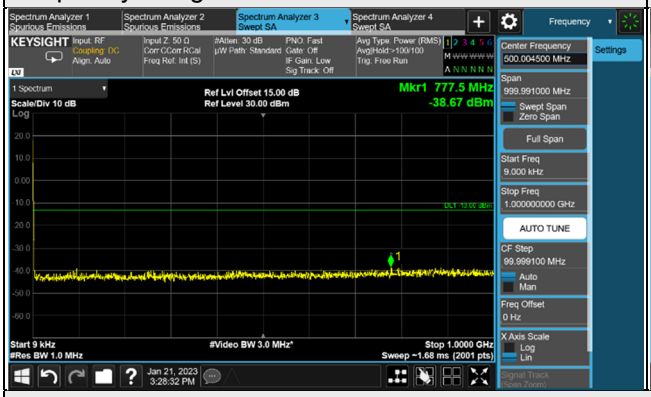
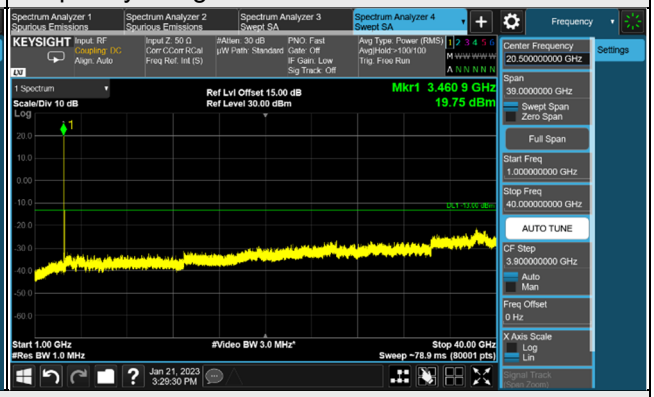
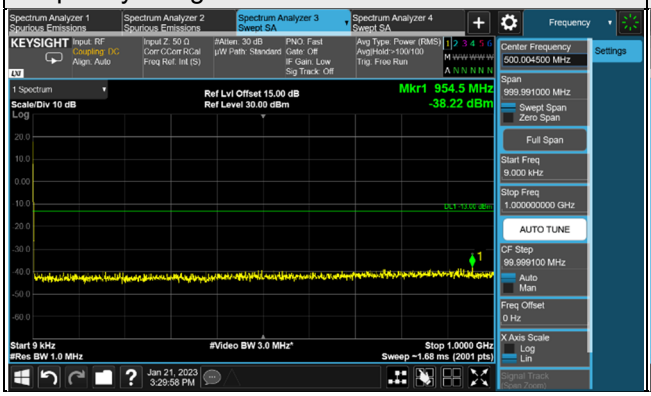
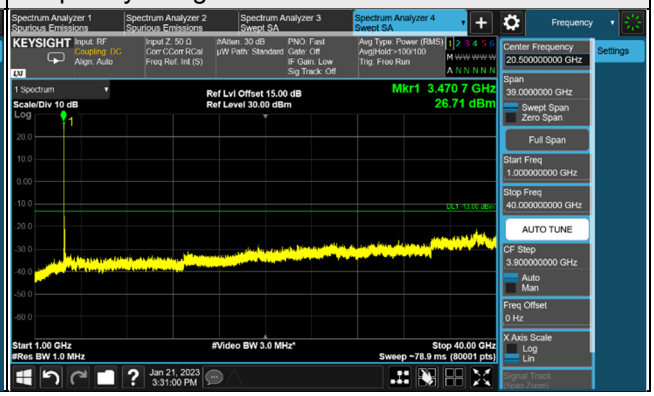
| n77, Channel Bandwidth 50MHz | |
|---|---|
| Channel 631668 (3475.02MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |
| Channel 633334 (3500.01MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |
| Channel 635000 (3525.00MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |

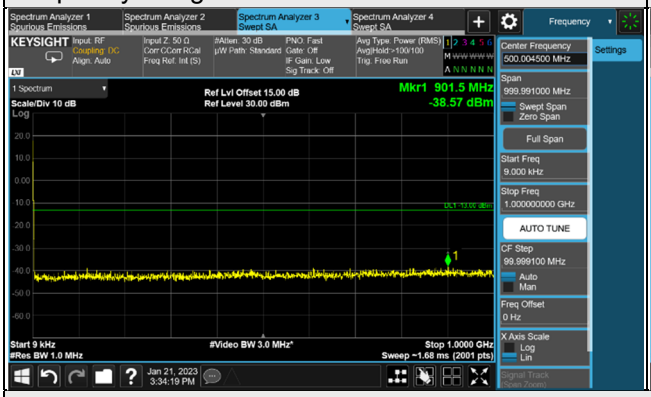
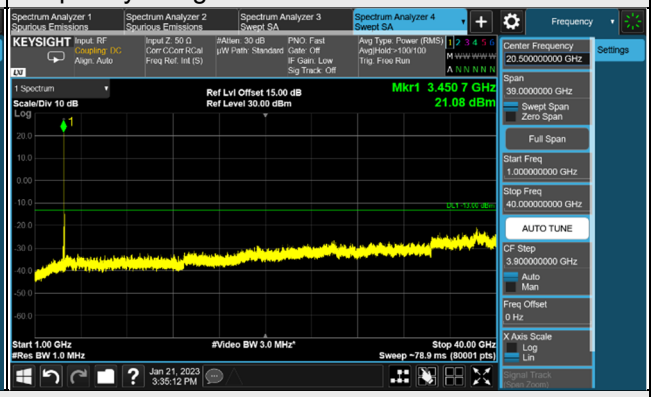
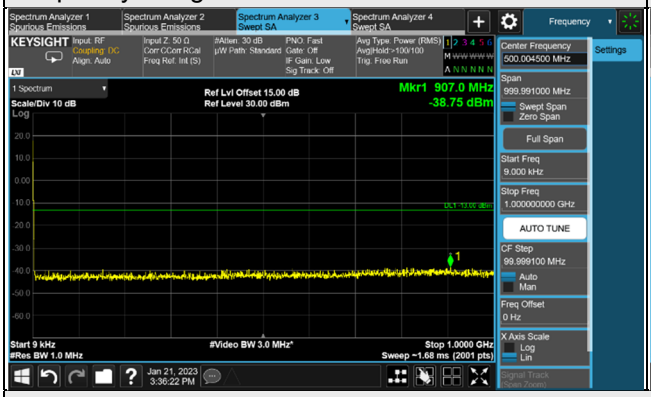
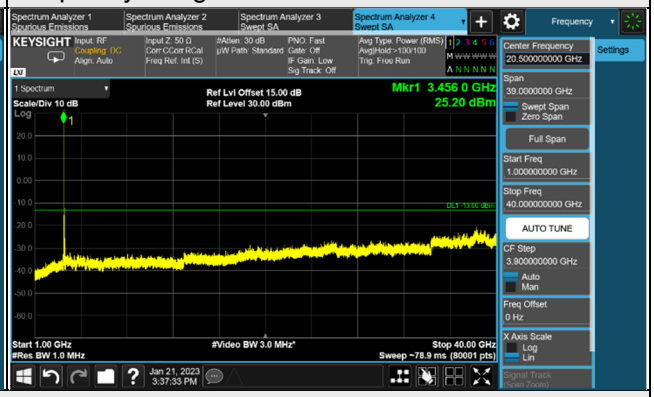
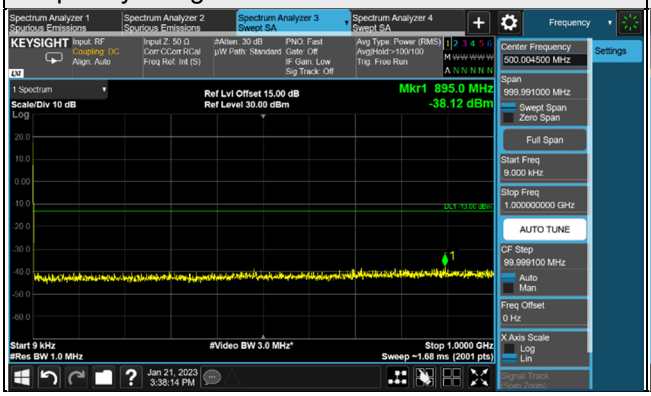
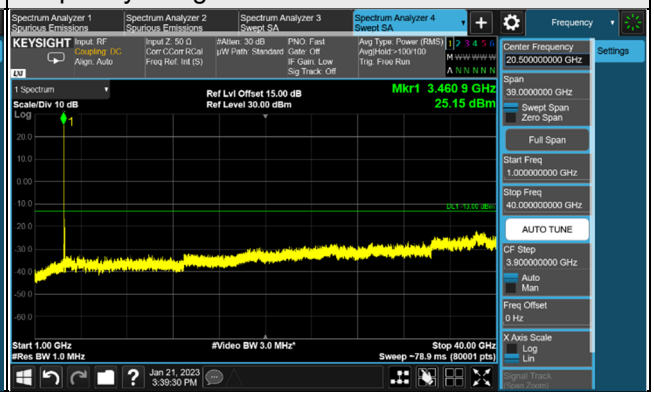
*The 9kHz signal over the limit is from Spectrum.

| n77, Channel Bandwidth 60MHz | |
|---|---|
| Channel 632000 (3480.00MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |
| Channel 633334 (3500.01MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |
| Channel 634666 (3519.99MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |

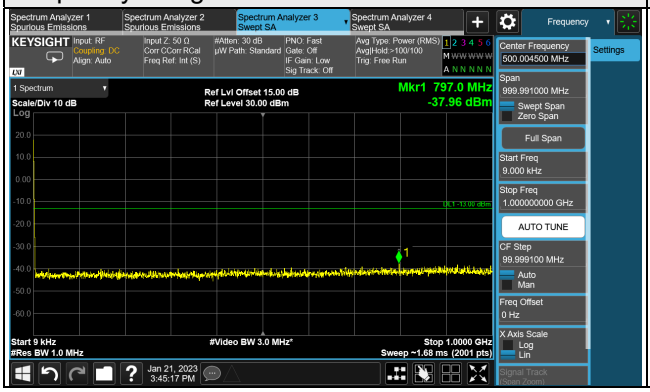
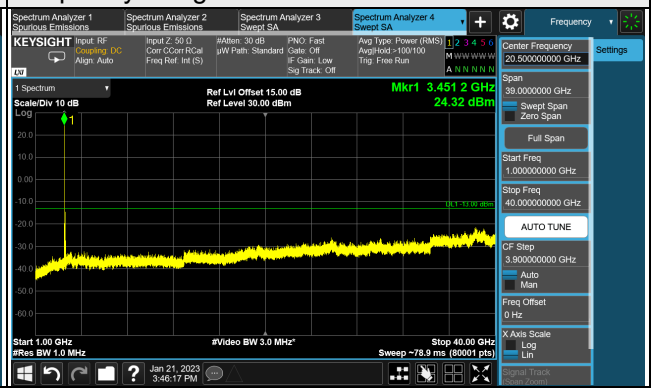
*The 9kHz signal over the limit is from Spectrum.

| n77, Channel Bandwidth 80MHz | |
|---|---|
| Channel 632668 (3490.02MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |
| Channel 633334 (3500.01MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |
| Channel 634000 (3510.00MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |

*The 9kHz signal over the limit is from Spectrum.

| n77, Channel Bandwidth 90MHz | |
|---|---|
| Channel 633000 (3495.00MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |
| Channel 633334 (3500.01MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |
| Channel 633666 (3504.99MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |

*The 9kHz signal over the limit is from Spectrum.

| n77, Channel Bandwidth 100MHz | |
|---|---|
| Channel 633334 (3500.01MHz) | |
| Frequency Range : 9kHz ~ 1GHz | Frequency Range : 1GHz ~ 40GHz |
|  |  |

*The 9kHz signal over the limit is from Spectrum.

## 4.8 Radiated Emission Measurement

### 4.8.1 Limits of Radiated Emission Measurement

For 5GNR n77 (Part 27Q):
According to FCC 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

For LTE Band 2, 5:
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 –13dBm.

For LTE Band 7, 38, 41:
According to FCC 27.53(m)(4),on any frequency outside a licensee’s frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least 55 + 10 log (P) dB. The emission limit equal to –25dBm.

For LTE Band 66:
According to FCC 27.53(h) for operations in the 1695-1710MHz, 1710-1755MHz, 1755-1780 MHz, 1915-1920MHz, 1995-2000 MHz, 2000-2020MHz, 2110-2155MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log (P) dB.

### 4.8.2 Test Procedure

a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
d. Following C63.26 section 5.5 and 5.2.7.
   EIRP (dBm) = E (dBμV/m) + 20log (D) - 104.8; where D is the measurement distance (in the far field region) in m.
   ERP (dBm) = E (dBμV/m) + 20log (D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

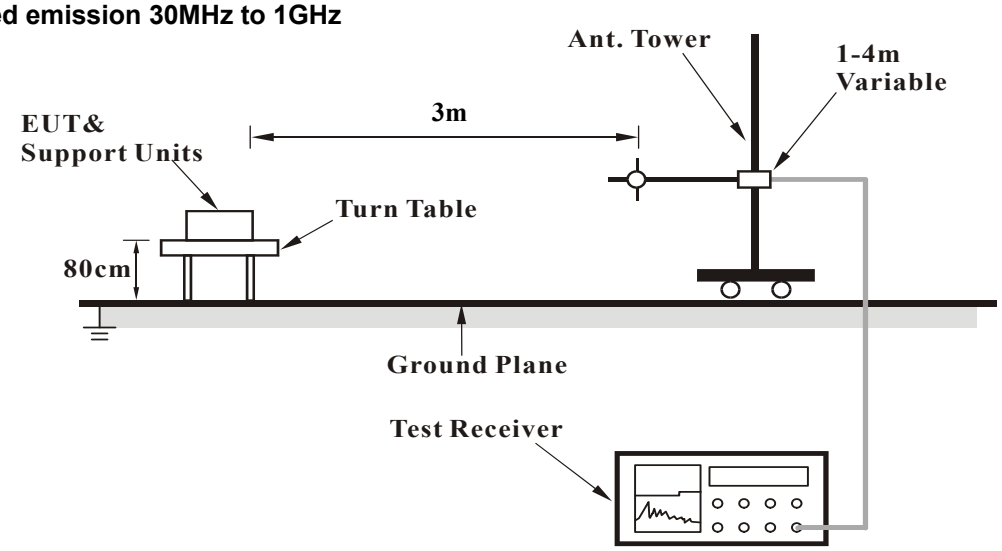
Note:
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
   The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

### 4.8.3 Deviation from Test Standard

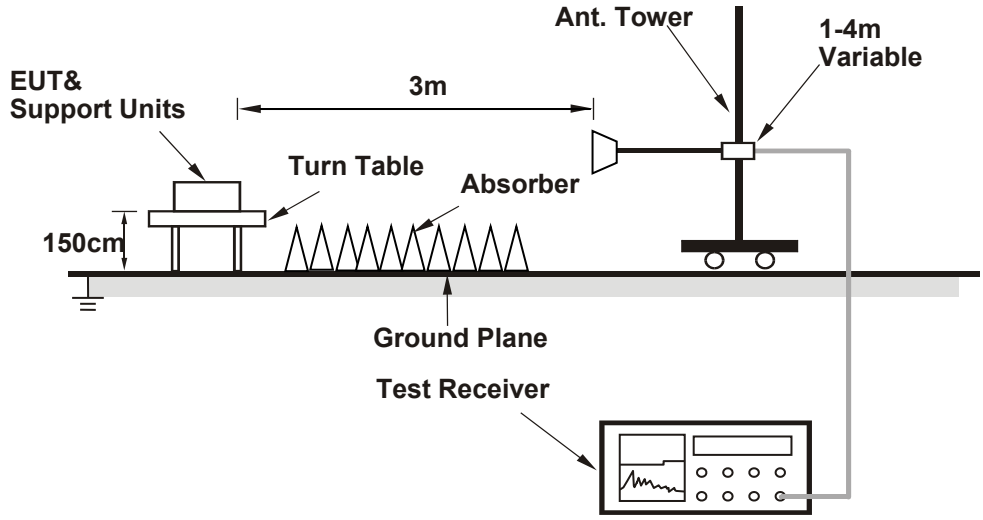
No deviation.

### 4.8.4 Test Setup

**For radiated emission 30MHz to 1GHz**




**For radiated emission above 1GHz**




For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 4.8.5 Test Results

Below 1GHz

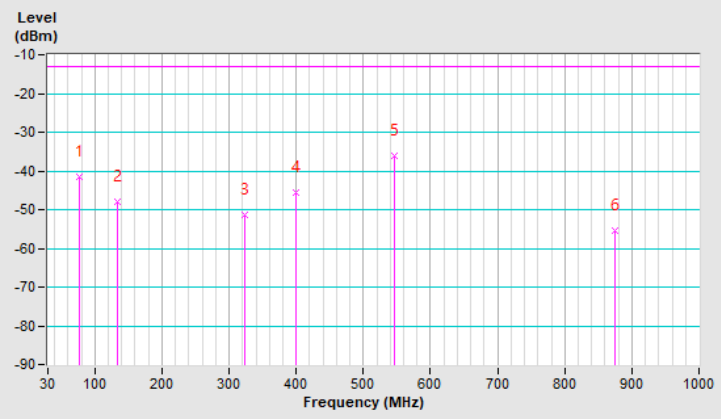
5GNR n77 (Part 27Q), Channel Bandwidth 100MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 633334 (3500.01MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 77.53 | -41.64 | -13.00 | -28.64 | 1.43 H | 230 | 69.81 | -111.45 |
| 2 | 132.82 | -47.90 | -13.00 | -34.90 | 2.88 H | 193 | 60.52 | -108.42 |
| 3 | 323.91 | -51.24 | -13.00 | -38.24 | 1.77 H | 182 | 55.16 | -106.40 |
| 4 | 399.57 | -45.57 | -13.00 | -32.57 | 1.59 H | 224 | 59.22 | -104.79 |
| 5 | 546.04 | -36.05 | -13.00 | -23.05 | 2.96 H | 347 | 65.51 | -101.56 |
| 6 | 874.87 | -55.44 | -13.00 | -42.44 | 2.06 H | 2 | 41.17 | -96.61 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

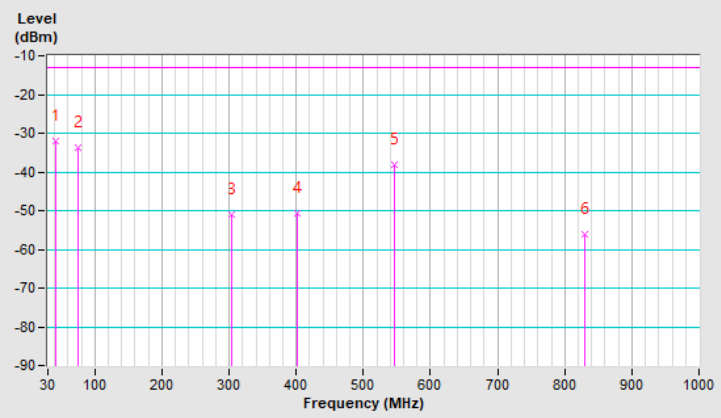


| | | | |
|---|---|---|---|
| Mode | TX channel 633334 (3500.01MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Vertical at 3m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| **1** | **42.61** | **-32.12** | **-13.00** | **-19.12** | **3.02 V** | **135** | **75.49** | **-107.61** |
| 2 | 75.59 | -33.83 | -13.00 | -20.83 | 2.55 V | 170 | 77.06 | -110.89 |
| 3 | 304.51 | -50.91 | -13.00 | -37.91 | 2.48 V | 225 | 56.00 | -106.91 |
| 4 | 402.48 | -50.56 | -13.00 | -37.56 | 1.39 V | 98 | 54.18 | -104.74 |
| 5 | 546.04 | -38.03 | -13.00 | -25.03 | 1.33 V | 352 | 63.53 | -101.56 |
| 6 | 830.25 | -55.94 | -13.00 | -42.94 | 2.64 V | 280 | 40.84 | -96.78 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



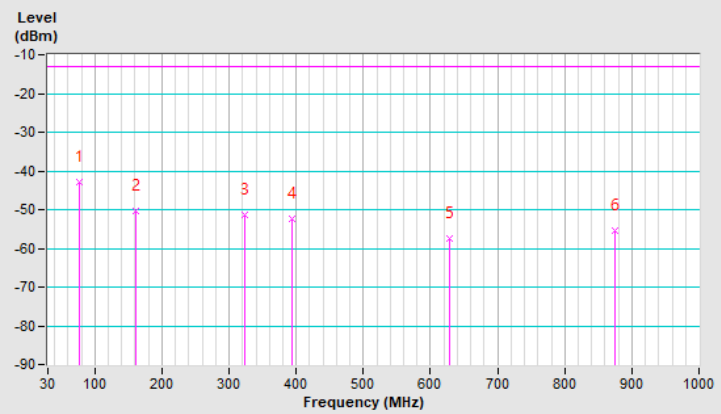
LTE Band 2, Channel Bandwidth 1.4MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 19193 (1909.30MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 76.56 | -42.99 | -13.00 | -29.99 | 1.00 H | 233 | 68.24 | -111.23 |
| 2 | 161.92 | -50.24 | -13.00 | -37.24 | 1.00 H | 211 | 57.61 | -107.85 |
| 3 | 323.91 | -51.45 | -13.00 | -38.45 | 1.00 H | 193 | 54.95 | -106.40 |
| 4 | 394.72 | -52.24 | -13.00 | -39.24 | 1.00 H | 215 | 52.61 | -104.85 |
| 5 | 627.52 | -57.48 | -13.00 | -44.48 | 1.00 H | 152 | 42.47 | -99.95 |
| 6 | 874.87 | -55.26 | -13.00 | -42.26 | 1.00 H | 357 | 41.35 | -96.61 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

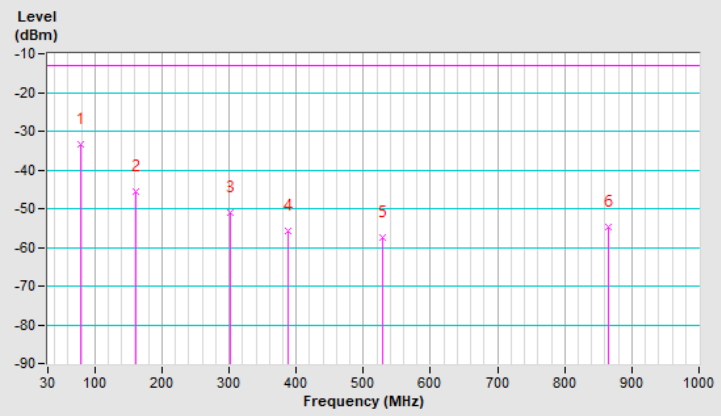


| | | | |
|---|---|---|---|
| Mode | TX channel 19193 (1909.30MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Vertical at 3m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| **1** | **78.50** | **-33.52** | **-13.00** | **-20.52** | **1.43 V** | **203** | **78.16** | **-111.68** |
| 2 | 161.92 | -45.75 | -13.00 | -32.75 | 2.46 V | 197 | 62.10 | -107.85 |
| 3 | 302.57 | -51.14 | -13.00 | -38.14 | 2.89 V | 218 | 55.81 | -106.95 |
| 4 | 387.93 | -55.65 | -13.00 | -42.65 | 1.46 V | 222 | 49.31 | -104.96 |
| 5 | 529.55 | -57.44 | -13.00 | -44.44 | 3.16 V | 153 | 44.11 | -101.55 |
| 6 | 865.17 | -54.91 | -13.00 | -41.91 | 2.00 V | 15 | 41.88 | -96.79 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



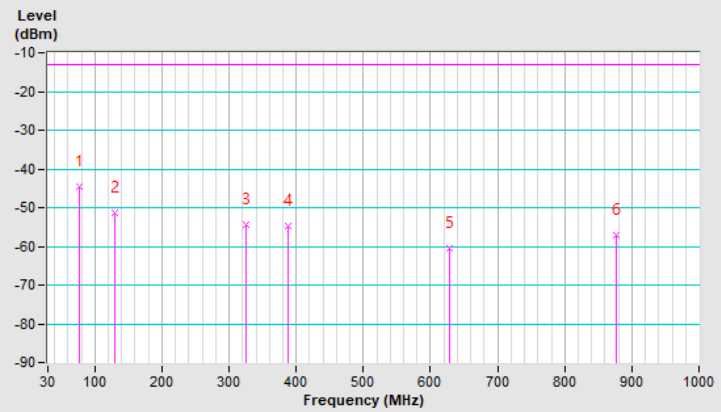
LTE Band 5, Channel Bandwidth 10MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 20525 (836.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 77.53 | -44.53 | -13.00 | -31.53 | 3.22 H | 238 | 69.07 | -113.60 |
| 2 | 129.91 | -51.40 | -13.00 | -38.40 | 1.64 H | 254 | 59.42 | -110.82 |
| 3 | 324.88 | -54.25 | -13.00 | -41.25 | 2.27 H | 251 | 54.27 | -108.52 |
| 4 | 386.96 | -54.63 | -13.00 | -41.63 | 1.67 H | 221 | 52.48 | -107.11 |
| 5 | 628.49 | -60.42 | -13.00 | -47.42 | 1.15 H | 152 | 41.68 | -102.10 |
| 6 | 875.84 | -57.05 | -13.00 | -44.05 | 1.29 H | 279 | 41.70 | -98.75 |

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

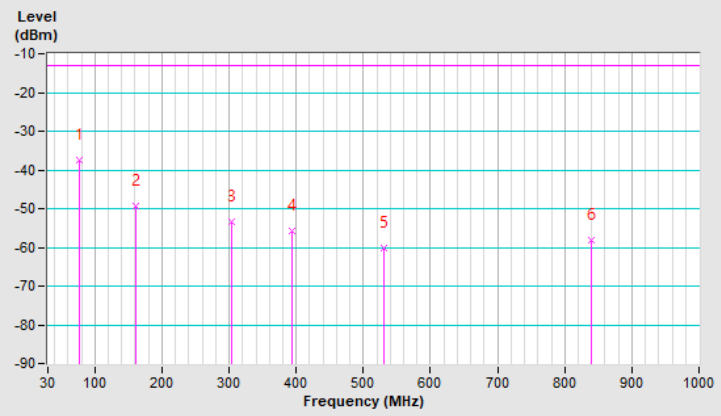


| | | | |
|---|---|---|---|
| Mode | TX channel 20525 (836.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Vertical at 3m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| **1** | **77.53** | **-37.52** | **-13.00** | **-24.52** | **3.15 V** | **152** | **76.08** | **-113.60** |
| 2 | 161.92 | -49.39 | -13.00 | -36.39 | 1.18 V | 193 | 60.61 | -110.00 |
| 3 | 303.54 | -53.29 | -13.00 | -40.29 | 2.15 V | 193 | 55.80 | -109.09 |
| 4 | 393.75 | -55.81 | -13.00 | -42.81 | 1.18 V | 223 | 51.22 | -107.03 |
| 5 | 531.49 | -60.15 | -13.00 | -47.15 | 3.32 V | 146 | 43.55 | -103.70 |
| 6 | 839.95 | -57.97 | -13.00 | -44.97 | 1.58 V | 130 | 40.93 | -98.90 |

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



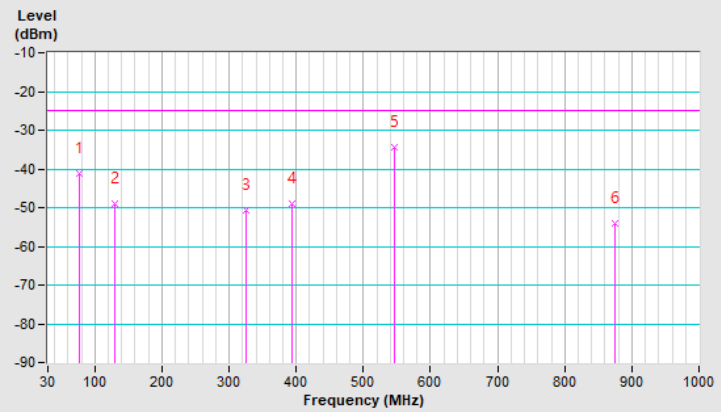
LTE Band 7, Channel Bandwidth 20MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 21350 (2560.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 76.56 | -41.27 | -25.00 | -16.27 | 2.06 H | 235 | 69.96 | -111.23 |
| 2 | 129.91 | -49.02 | -25.00 | -24.02 | 2.19 H | 251 | 59.65 | -108.67 |
| 3 | 324.88 | -50.76 | -25.00 | -25.76 | 3.75 H | 275 | 55.61 | -106.37 |
| 4 | 393.75 | -48.90 | -25.00 | -23.90 | 2.72 H | 222 | 55.98 | -104.88 |
| **5** | **546.04** | **-34.43** | **-25.00** | **-9.43** | **1.34 H** | **344** | **67.13** | **-101.56** |
| 6 | 874.87 | -54.10 | -25.00 | -29.10 | 2.04 H | 308 | 42.51 | -96.61 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

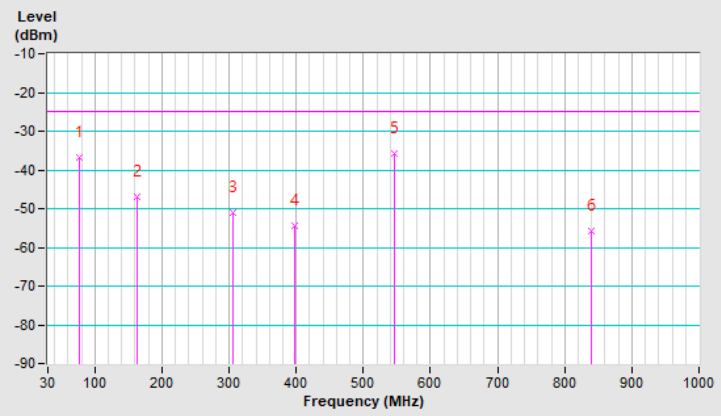


| | | | |
|---|---|---|---|
| Mode | TX channel 21350 (2560.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Vertical at 3m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 77.53 | -36.65 | -25.00 | -11.65 | 1.00 V | 168 | 74.80 | -111.45 |
| 2 | 163.86 | -46.91 | -25.00 | -21.91 | 1.00 V | 213 | 61.05 | -107.96 |
| 3 | 306.45 | -51.02 | -25.00 | -26.02 | 1.00 V | 218 | 55.85 | -106.87 |
| 4 | 397.63 | -54.38 | -25.00 | -29.38 | 1.00 V | 224 | 50.44 | -104.82 |
| 5 | 546.04 | -35.64 | -25.00 | -10.64 | 1.00 V | 339 | 65.92 | -101.56 |
| 6 | 838.98 | -55.75 | -25.00 | -30.75 | 1.00 V | 251 | 40.99 | -96.74 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



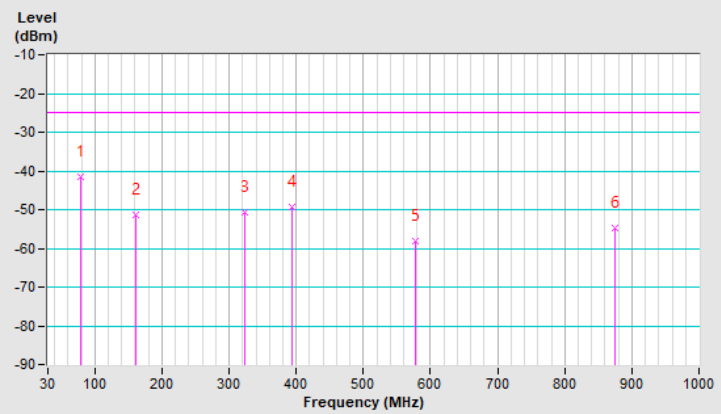
LTE Band 38, Channel Bandwidth 5MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 37775 (2572.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 78.50 | -41.47 | -25.00 | -16.47 | 2.49 H | 253 | 70.21 | -111.68 |
| 2 | 161.92 | -51.30 | -25.00 | -26.30 | 3.24 H | 212 | 56.55 | -107.85 |
| 3 | 323.91 | -50.66 | -25.00 | -25.66 | 2.25 H | 263 | 55.74 | -106.40 |
| 4 | 394.72 | -49.24 | -25.00 | -24.24 | 1.48 H | 217 | 55.61 | -104.85 |
| 5 | 578.05 | -58.15 | -25.00 | -33.15 | 2.14 H | 137 | 42.95 | -101.10 |
| 6 | 874.87 | -54.90 | -25.00 | -29.90 | 2.29 H | 2 | 41.71 | -96.61 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

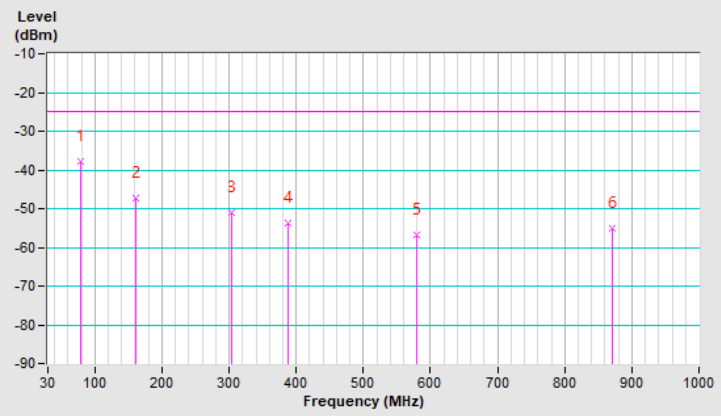


| Mode | TX channel 37775 (2572.5MHz) | Frequency Range | Below 1000 MHz |
|---|---|---|---|
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Vertical at 3m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 79.47 | -37.68 | -25.00 | -12.68 | 1.53 V | 183 | 74.24 | -111.92 |
| 2 | 161.92 | -47.26 | -25.00 | -22.26 | 2.43 V | 154 | 60.59 | -107.85 |
| 3 | 303.54 | -51.17 | -25.00 | -26.17 | 3.35 V | 227 | 55.77 | -106.94 |
| 4 | 386.96 | -53.66 | -25.00 | -28.66 | 2.12 V | 217 | 51.30 | -104.96 |
| 5 | 579.02 | -56.64 | -25.00 | -31.64 | 1.56 V | 96 | 44.44 | -101.08 |
| 6 | 870.02 | -55.00 | -25.00 | -30.00 | 3.32 V | 205 | 41.70 | -96.70 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



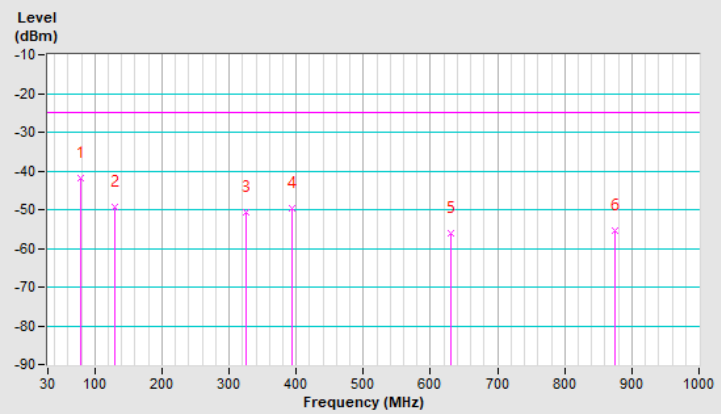
LTE Band 41, Channel Bandwidth 20MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 41490 (2680.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 78.50 | -41.98 | -25.00 | -16.98 | 3.18 H | 82 | 69.70 | -111.68 |
| 2 | 128.94 | -49.18 | -25.00 | -24.18 | 2.37 H | 40 | 59.64 | -108.82 |
| 3 | 324.88 | -50.77 | -25.00 | -25.77 | 2.21 H | 272 | 55.60 | -106.37 |
| 4 | 392.78 | -49.78 | -25.00 | -24.78 | 1.97 H | 226 | 55.12 | -104.90 |
| 5 | 630.43 | -56.04 | -25.00 | -31.04 | 2.04 H | 151 | 43.87 | -99.91 |
| 6 | 874.87 | -55.28 | -25.00 | -30.28 | 1.95 H | 304 | 41.33 | -96.61 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

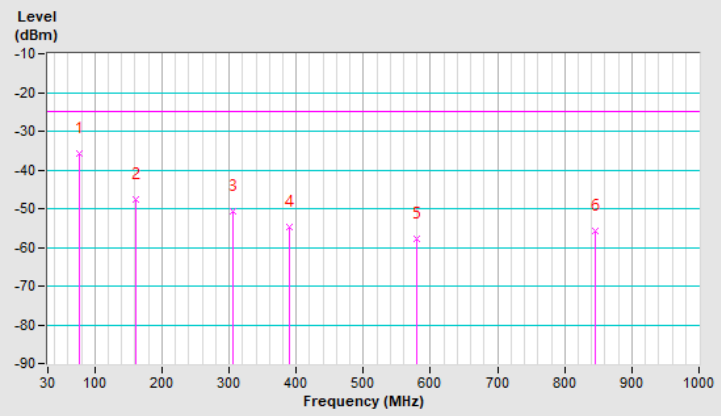


| Mode | TX channel 41490 (2680.0MHz) | Frequency Range | Below 1000 MHz |
|---|---|---|---|
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Vertical at 3m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 77.53 | -35.65 | -25.00 | -10.65 | 2.71 V | 193 | 75.80 | -111.45 |
| 2 | 161.92 | -47.48 | -25.00 | -22.48 | 1.16 V | 205 | 60.37 | -107.85 |
| 3 | 306.45 | -50.75 | -25.00 | -25.75 | 2.53 V | 211 | 56.12 | -106.87 |
| 4 | 388.90 | -54.77 | -25.00 | -29.77 | 1.63 V | 220 | 50.18 | -104.95 |
| 5 | 579.02 | -57.66 | -25.00 | -32.66 | 2.17 V | 103 | 43.42 | -101.08 |
| 6 | 845.77 | -55.92 | -25.00 | -30.92 | 2.12 V | 92 | 40.90 | -96.82 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



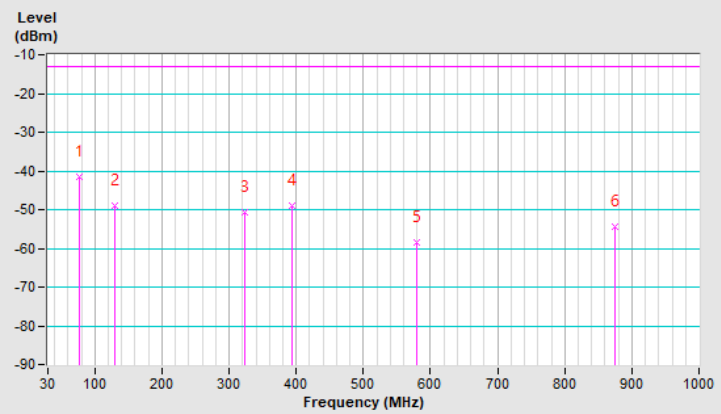
LTE Band 66, Channel Bandwidth 5MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 132647 (1777.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 77.53 | -41.37 | -13.00 | -28.37 | 2.11 H | 250 | 70.08 | -111.45 |
| 2 | 129.91 | -48.91 | -13.00 | -35.91 | 3.93 H | 267 | 59.76 | -108.67 |
| 3 | 323.91 | -50.57 | -13.00 | -37.57 | 2.53 H | 256 | 55.83 | -106.40 |
| 4 | 392.78 | -48.92 | -13.00 | -35.92 | 3.75 H | 217 | 55.98 | -104.90 |
| 5 | 579.99 | -58.39 | -13.00 | -45.39 | 2.05 H | 128 | 42.68 | -101.07 |
| 6 | 874.87 | -54.47 | -13.00 | -41.47 | 2.23 H | 2 | 42.14 | -96.61 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

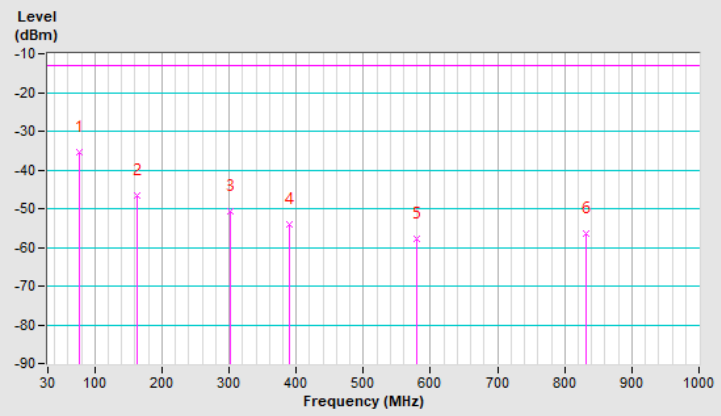


| | | | |
|---|---|---|---|
| Mode | TX channel 132647 (1777.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 70%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Thomas Cheng | | |

| Antenna Polarity & Test Distance : Vertical at 3m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| **1** | **76.56** | **-35.58** | **-13.00** | **-22.58** | **1.98 V** | **205** | **75.65** | **-111.23** |
| 2 | 163.86 | -46.60 | -13.00 | -33.60 | 1.85 V | 60 | 61.36 | -107.96 |
| 3 | 302.57 | -50.62 | -13.00 | -37.62 | 2.92 V | 224 | 56.33 | -106.95 |
| 4 | 389.87 | -54.02 | -13.00 | -41.02 | 1.34 V | 222 | 50.93 | -104.95 |
| 5 | 579.02 | -57.87 | -13.00 | -44.87 | 2.70 V | 93 | 43.21 | -101.08 |
| 6 | 832.19 | -56.31 | -13.00 | -43.31 | 1.35 V | 133 | 40.45 | -96.76 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



Above 1GHz

5GNR n77 (Part 27Q), Channel Bandwidth 10MHz

| Mode | TX channel 630334 (3455.01MHz) | Frequency Range | 1GHz ~ 40GHz |
|---|---|---|---|
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 6910.02 | -41.15 | -13.00 | -28.15 | 3.52 H | 217 | 60.42 | -101.57 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 6910.02 | -39.38 | -13.00 | -26.38 | 2.42 V | 156 | 62.19 | -101.57 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| Mode | TX channel 633334 (3500.01MHz) | Frequency Range | 1GHz ~ 40GHz |
|---|---|---|---|
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7000.02 | -40.45 | -13.00 | -27.45 | 2.03 H | 71 | 60.47 | -100.92 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7000.02 | -38.78 | -13.00 | -25.78 | 1.57 V | 55 | 62.14 | -100.92 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 636332 (3544.98MHz) | Frequency Range | 1GHz ~ 40GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7089.96 | -39.52 | -13.00 | -26.52 | 3.12 H | 252 | 60.42 | -99.94 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7089.96 | -37.81 | -13.00 | -24.81 | 2.52 V | 141 | 62.13 | -99.94 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

5GNR n77 (Part 27Q), Channel Bandwidth 50MHz

| Mode | TX channel 631668 (3475.02MHz) | Frequency Range | 1GHz ~ 40GHz |
|---|---|---|---|
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 6950.04 | -40.84 | -13.00 | -27.84 | 1.58 H | 241 | 60.47 | -101.31 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 6950.04 | -39.14 | -13.00 | -26.14 | 1.27 V | 208 | 62.17 | -101.31 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| Mode | TX channel 633334 (3500.01MHz) | Frequency Range | 1GHz ~ 40GHz |
|---|---|---|---|
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7000.02 | -40.47 | -13.00 | -27.47 | 2.84 H | 156 | 60.45 | -100.92 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7000.02 | -38.75 | -13.00 | -25.75 | 2.01 V | 145 | 62.17 | -100.92 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 635000 (3525.00MHz) | Frequency Range | 1GHz ~ 40GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7050.00 | -39.90 | -13.00 | -26.90 | 1.69 H | 245 | 60.32 | -100.22 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7050.00 | -38.08 | -13.00 | -25.08 | 1.03 V | 287 | 62.14 | -100.22 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

5GNR n77 (Part 27Q), Channel Bandwidth 100MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 633334 (3500.01MHz) | Frequency Range | 1GHz ~ 40GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7000.02 | -40.36 | -13.00 | -27.36 | 1.66 H | 319 | 60.56 | -100.92 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7000.02 | -37.67 | -13.00 | -24.67 | 2.82 V | 289 | 63.25 | -100.92 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 1.4MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 18607 (1850.7MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3701.40 | -53.41 | -13.00 | -40.41 | 1.62 H | 298 | 55.47 | -108.88 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3701.40 | -47.56 | -13.00 | -34.56 | 2.07 V | 169 | 61.32 | -108.88 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 18900 (1880.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -53.52 | -13.00 | -40.52 | 1.26 H | 222 | 55.47 | -108.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -47.68 | -13.00 | -34.68 | 2.34 V | 165 | 61.31 | -108.99 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 19193 (1909.3MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3818.60 | -53.39 | -13.00 | -40.39 | 1.47 H | 20 | 55.45 | -108.84 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3818.60 | -47.49 | -13.00 | -34.49 | 2.42 V | 165 | 61.35 | -108.84 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 5MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 18625 (1852.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3705.00 | -53.41 | -13.00 | -40.41 | 1.52 H | 227 | 55.47 | -108.88 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3705.00 | -47.50 | -13.00 | -34.50 | 1.93 V | 278 | 61.38 | -108.88 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 18900 (1880.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -53.57 | -13.00 | -40.57 | 1.47 H | 252 | 55.42 | -108.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -47.62 | -13.00 | -34.62 | 3.21 V | 147 | 61.37 | -108.99 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 19175 (1907.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3815.00 | -53.46 | -13.00 | -40.46 | 1.74 H | 352 | 55.42 | -108.88 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3815.00 | -47.53 | -13.00 | -34.53 | 2.11 V | 252 | 61.35 | -108.88 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 20MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 18700 (1860.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3720.00 | -53.46 | -13.00 | -40.46 | 1.63 H | 278 | 55.47 | -108.93 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3720.00 | -47.58 | -13.00 | -34.58 | 2.14 V | 239 | 61.35 | -108.93 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 18900 (1880.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -53.41 | -13.00 | -40.41 | 1.80 H | 265 | 55.58 | -108.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -47.51 | -13.00 | -34.51 | 2.33 V | 132 | 61.48 | -108.99 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 19100 (1900.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3800.00 | -53.58 | -13.00 | -40.58 | 1.52 H | 232 | 55.42 | -109.00 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3800.00 | -47.58 | -13.00 | -34.58 | 2.42 V | 125 | 61.42 | -109.00 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 5, Channel Bandwidth 1.4MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 20407 (824.7MHz) | Frequency Range | 1GHz ~ 9GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1649.40 | -39.62 | -13.00 | -26.62 | 2.14 H | 257 | 78.36 | -117.98 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1649.40 | -40.83 | -13.00 | -27.83 | 1.42 V | 232 | 77.15 | -117.98 |

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 20525 (836.5MHz) | Frequency Range | 1GHz ~ 9GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1673.00 | -39.67 | -13.00 | -26.67 | 1.52 H | 122 | 78.32 | -117.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1673.00 | -40.85 | -13.00 | -27.85 | 2.14 V | 146 | 77.14 | -117.99 |

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

| Mode | TX channel 20643 (848.3MHz) | Frequency Range | 1GHz ~ 9GHz |
|---|---|---|---|
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1696.60 | -39.65 | -13.00 | -26.65 | 1.37 H | 188 | 78.35 | -118.00 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1696.60 | -40.85 | -13.00 | -27.85 | 1.12 V | 242 | 77.15 | -118.00 |

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 5, Channel Bandwidth 5MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 20425 (826.5MHz) | Frequency Range | 1GHz ~ 9GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1653.00 | -39.64 | -13.00 | -26.64 | 1.32 H | 287 | 78.34 | -117.98 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1653.00 | -40.86 | -13.00 | -27.86 | 1.32 V | 272 | 77.12 | -117.98 |

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 20525 (836.5MHz) | Frequency Range | 1GHz ~ 9GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1673.00 | -39.65 | -13.00 | -26.65 | 1.56 H | 193 | 78.34 | -117.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1673.00 | -40.80 | -13.00 | -27.80 | 1.35 V | 227 | 77.19 | -117.99 |

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

| Mode | TX channel 20625 (846.5MHz) | Frequency Range | 1GHz ~ 9GHz |
|---|---|---|---|
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1693.00 | -39.66 | -13.00 | -26.66 | 1.00 H | 187 | 78.34 | -118.00 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1693.00 | -40.82 | -13.00 | -27.82 | 1.06 V | 223 | 77.18 | -118.00 |

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 5, Channel Bandwidth 10MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 20450 (829.0MHz) | Frequency Range | 1GHz ~ 9GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1658.00 | -39.66 | -13.00 | -26.66 | 1.32 H | 187 | 78.32 | -117.98 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1658.00 | -40.83 | -13.00 | -27.83 | 1.27 V | 223 | 77.15 | -117.98 |

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 20525 (836.5MHz) | Frequency Range | 1GHz ~ 9GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1673.00 | -39.59 | -13.00 | -26.59 | 1.44 H | 204 | 78.40 | -117.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1673.00 | -40.74 | -13.00 | -27.74 | 1.29 V | 259 | 77.25 | -117.99 |

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

| Mode | TX channel 20600 (844.0MHz) | Frequency Range | 1GHz ~ 9GHz |
|---|---|---|---|
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1688.00 | -39.64 | -13.00 | -26.64 | 1.32 H | 187 | 78.35 | -117.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1688.00 | -40.87 | -13.00 | -27.87 | 1.20 V | 265 | 77.12 | -117.99 |

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 - 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 7, Channel Bandwidth: 5MHz

| | | | |
|---|---|---|---|
| Mode | TX channel 20775 (2502.5MHz) | Frequency Range | 1GHz ~ 27GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5005.00 | -45.44 | -25.00 | -20.44 | 2.75 H | 3 | 60.65 | -106.09 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5005.00 | -42.17 | -25.00 | -17.17 | 1.33 V | 170 | 63.92 | -106.09 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|---|---|---|---|
| Mode | TX channel 21100 (2535MHz) | Frequency Range | 1GHz ~ 27GHz |
| Environmental Conditions | 24deg. C, 78%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5070.00 | -45.37 | -25.00 | -20.37 | 2.92 H | 219 | 60.34 | -105.71 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5070.00 | -41.93 | -25.00 | -16.93 | 1.07 V | 287 | 63.78 | -105.71 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.