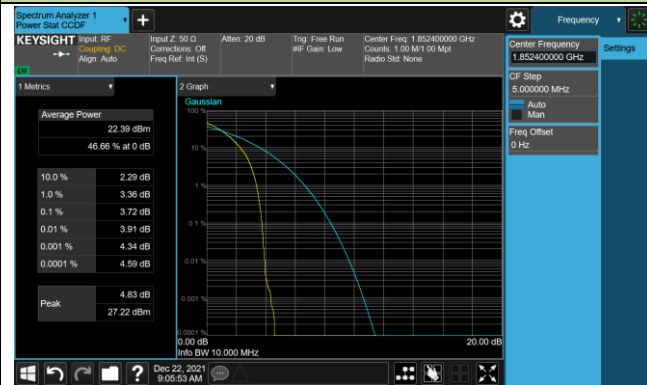


WCDMA Band II

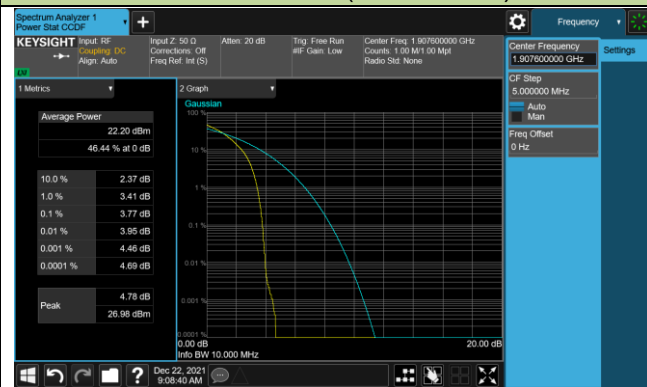
Channel 9262 (1852.4MHz)



Channel 9400 (1880.0MHz)

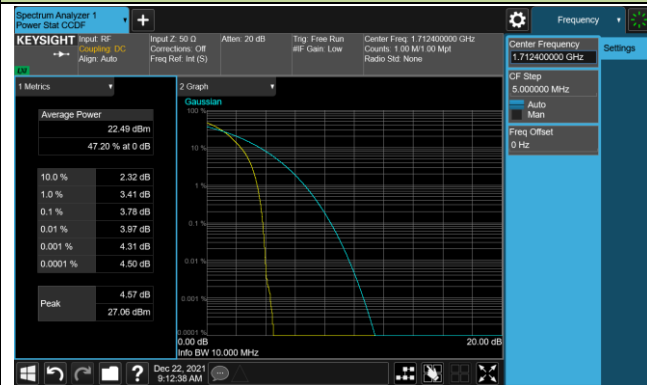


Channel 9538 (1907.6MHz)

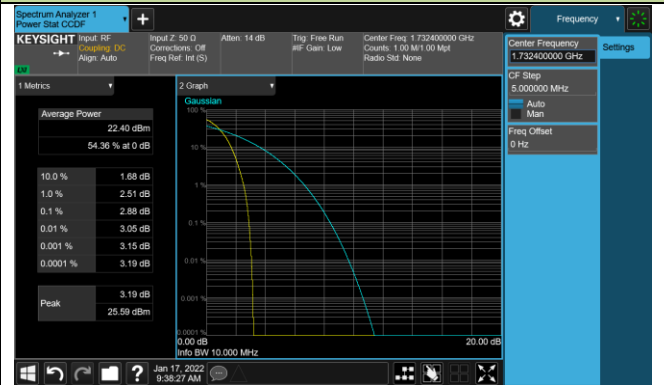


WCDMA Band IV

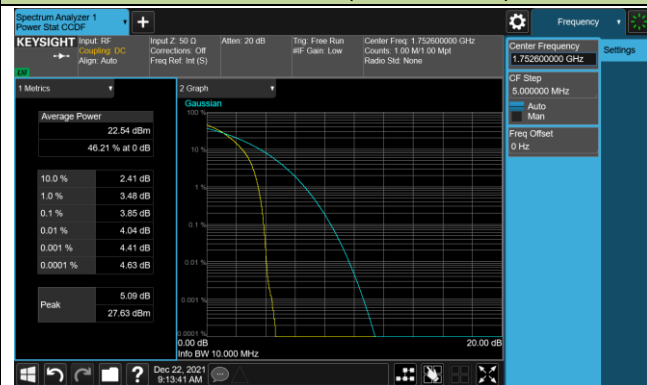
Channel 1312 (1712.4MHz)



Channel 1412 (1732.4MHz)

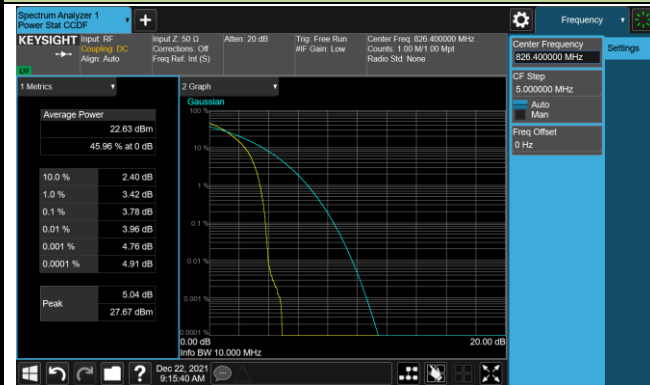


Channel 1513 (1752.6MHz)



WCDMA Band V

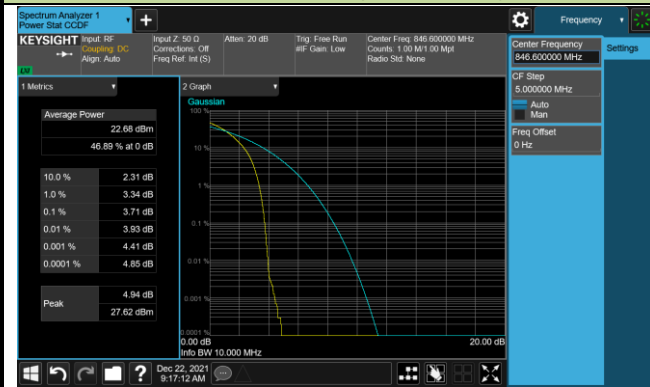
Channel 4132 (826.4MHz)



Channel 4183 (836.4MHz)



Channel 4233 (846.6MHz)



5.7. Conducted Spurious Emission Measurement

5.7.1. Test Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the Low frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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.

5.7.2. Test Procedure

ANSI C63.26-2015 - Section 5.7

5.7.3. Test Setting

1. Set the analyzer frequency to low, mid, high channel.
2. RBW = 1MHz
3. VBW $\geq 3 \cdot$ RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.

To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

5.7.4. Test Setup

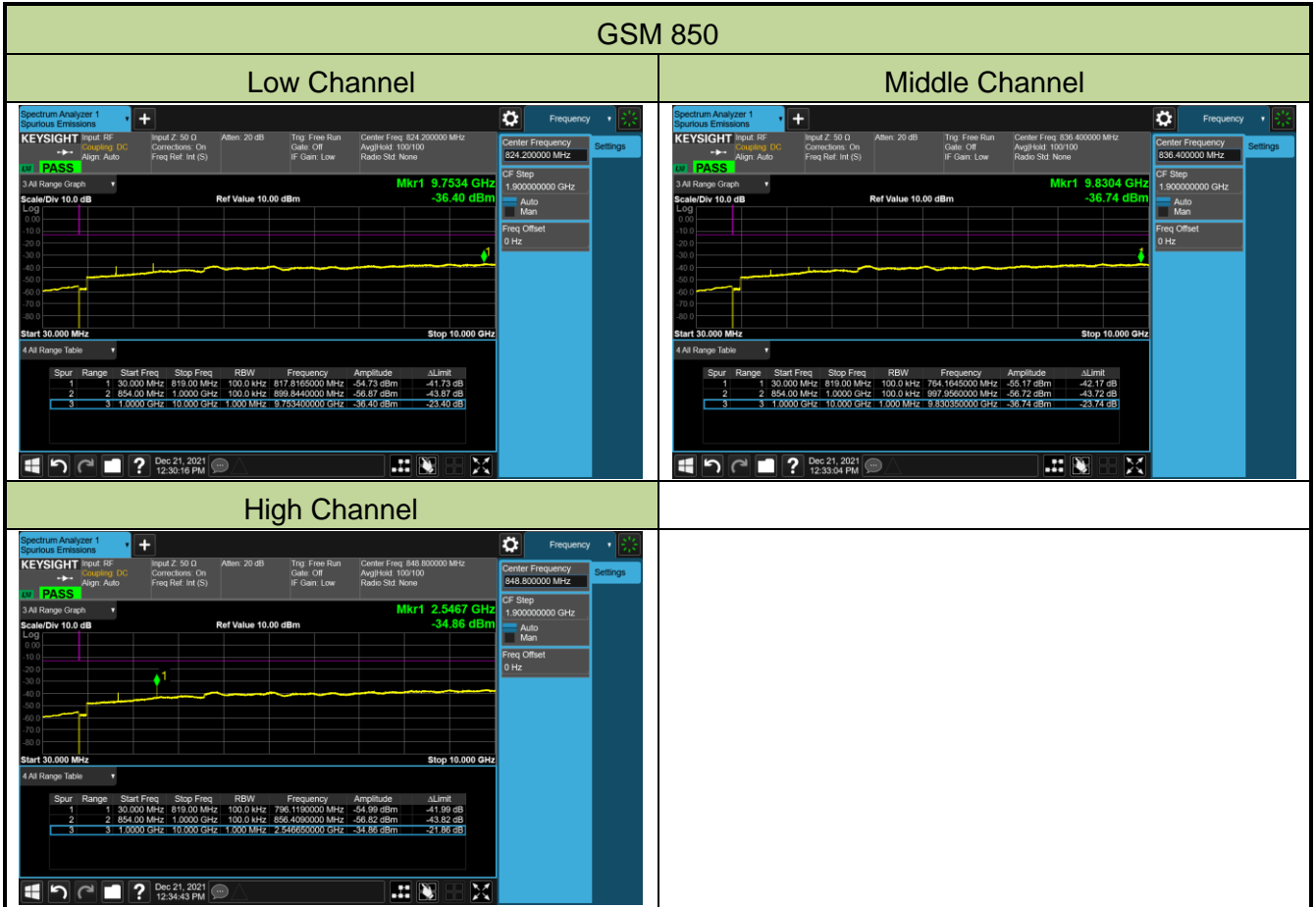


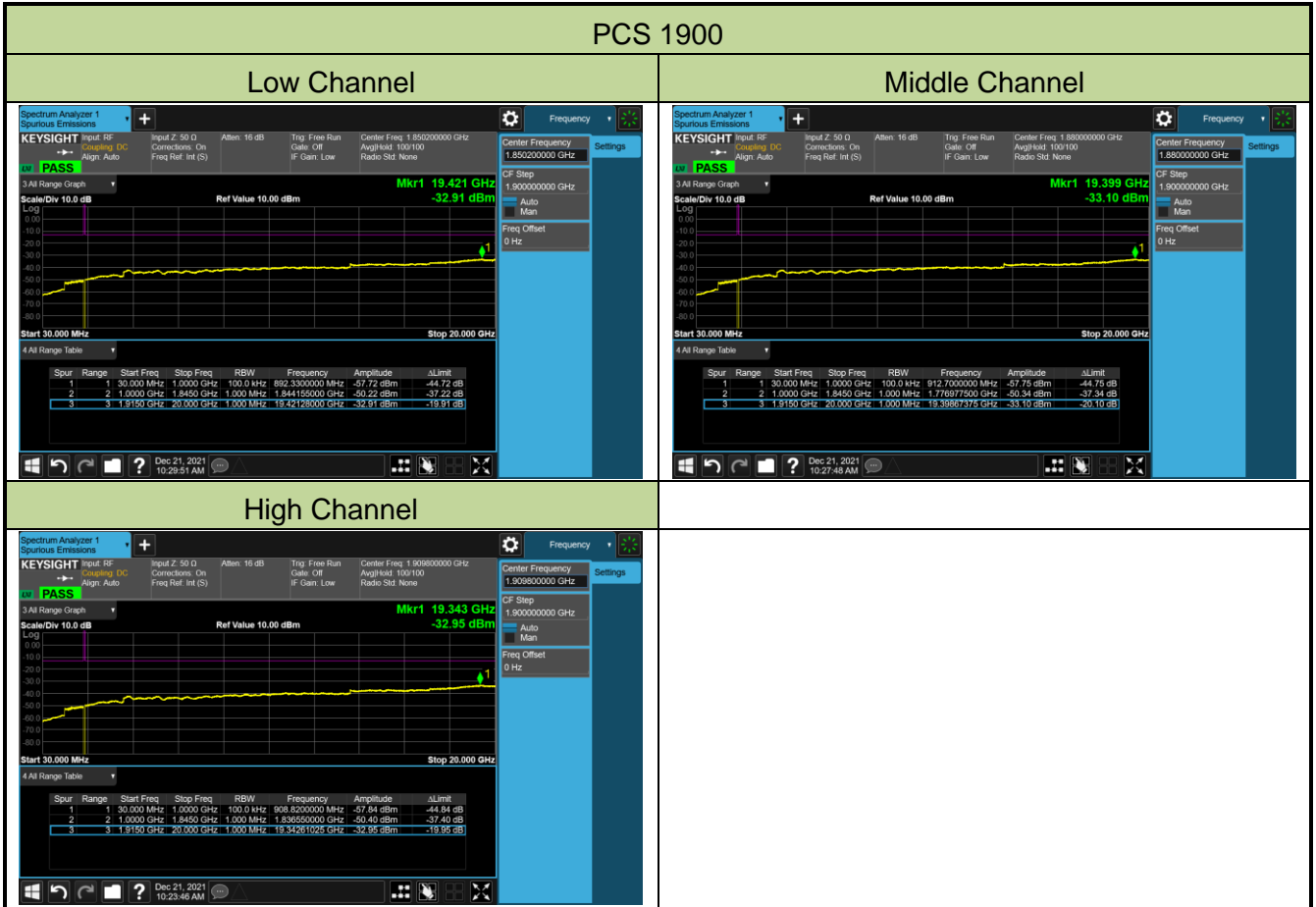
5.7.5. Test Result

| | | | |
|---------------|-------------------|-----------|------------|
| Product | Mobile Computer | Test Site | SIP-SR1 |
| Test Engineer | Candy Luo | Test Date | 2021/12/21 |
| Test Band | GSM 850, PCS 1900 | | |

| Mode | Frequency (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|----------|-----------------|-----------------------|------------------------------|-------------|--------|
| GSM 850 | 824.2 | 30 ~ 10000 | -36.40 | ≤ -13.00 | Pass |
| | 836.4 | 30 ~ 10000 | -36.74 | ≤ -13.00 | Pass |
| | 848.8 | 30 ~ 10000 | -34.86 | ≤ -13.00 | Pass |
| PCS 1900 | 1850.2 | 30 ~ 20000 | -32.91 | ≤ -13.00 | Pass |
| | 1880.0 | 30 ~ 20000 | -33.10 | ≤ -13.00 | Pass |
| | 1909.8 | 30 ~ 20000 | -32.95 | ≤ -13.00 | Pass |

Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.





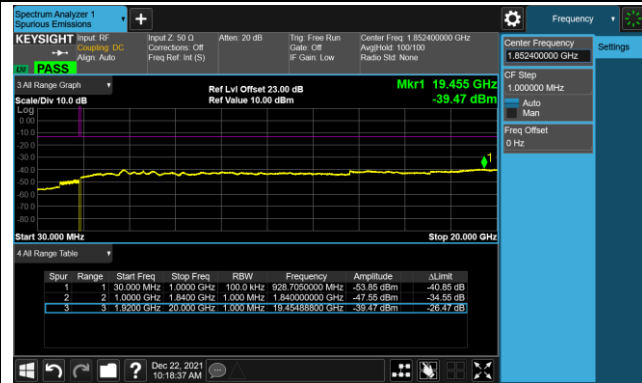
| | | | |
|---------------|----------------------|-----------|-------------------------|
| Product | Mobile Computer | Test Site | SIP-SR1 |
| Test Engineer | Candy Luo | Test Date | 2021/12/22 ~ 2022/01/17 |
| Test Band | WCDMA Band II, IV, V | | |

| Mode | Frequency (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------------|-----------------|-----------------------|------------------------------|-------------|--------|
| WCDMA Band II | 1852.4 | 30 ~ 20000 | -39.47 | ≤ -13.00 | Pass |
| | 1880.0 | 30 ~ 20000 | -39.54 | ≤ -13.00 | Pass |
| | 1907.6 | 30 ~ 20000 | -39.39 | ≤ -13.00 | Pass |
| WCDMA Band IV | 1712.4 | 30 ~ 18000 | -39.84 | ≤ -13.00 | Pass |
| | 1732.4 | 30 ~ 18000 | -43.72 | ≤ -13.00 | Pass |
| | 1752.6 | 30 ~ 18000 | -40.12 | ≤ -13.00 | Pass |
| WCDMA Band V | 826.4 | 30 ~ 10000 | -41.85 | ≤ -13.00 | Pass |
| | 836.4 | 30 ~ 10000 | -45.21 | ≤ -13.00 | Pass |
| | 846.6 | 30 ~ 10000 | -41.90 | ≤ -13.00 | Pass |

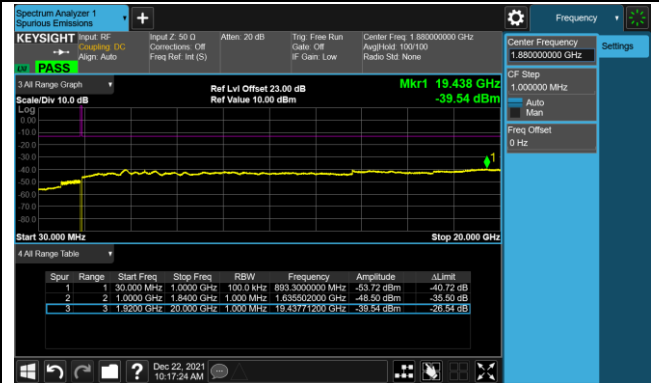
Note: Spurious emissions within 9Khz – 30Mhz were found more than 20dB below limit line.

WCDMA Band II

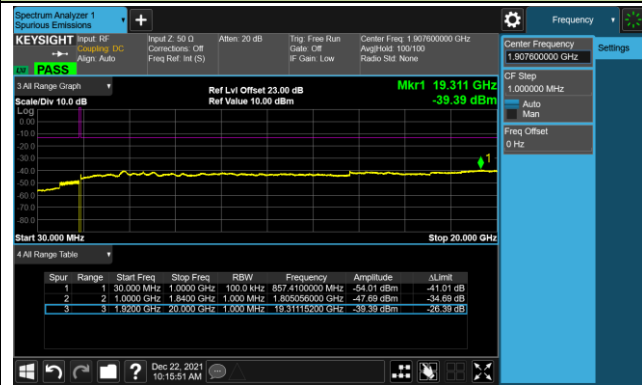
Low Channel

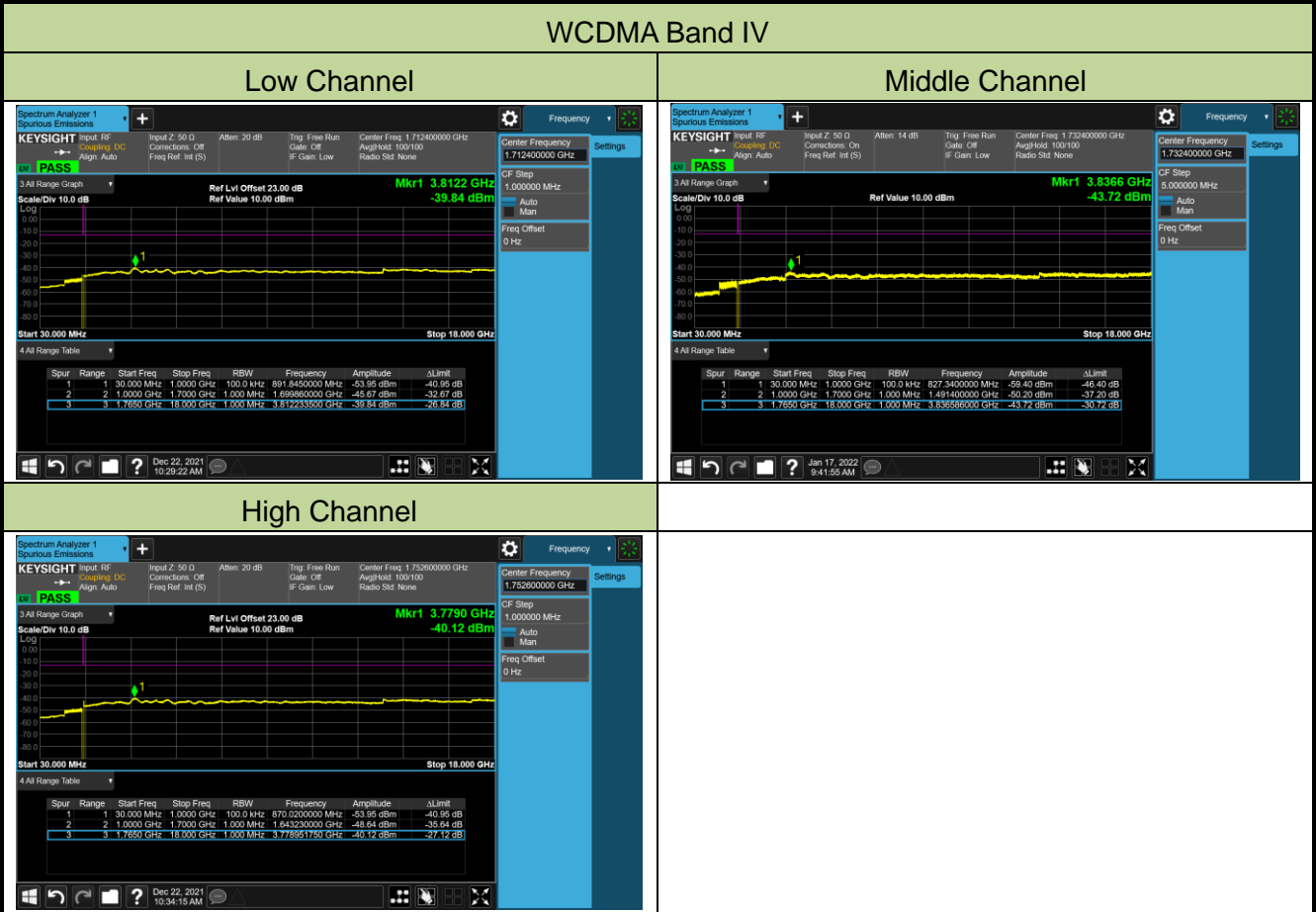


Middle Channel



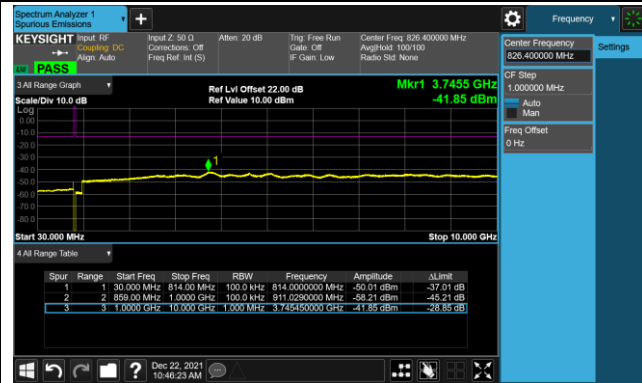
High Channel



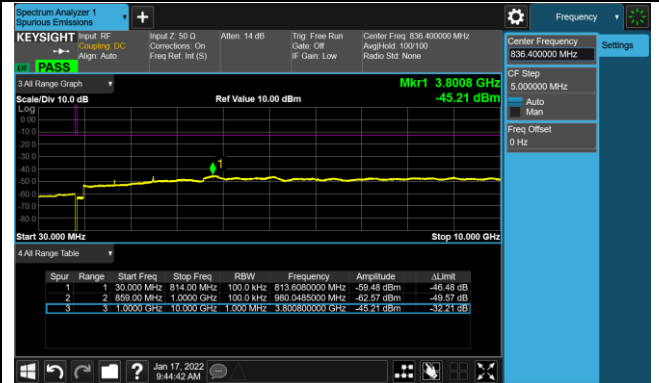


WCDMA Band V

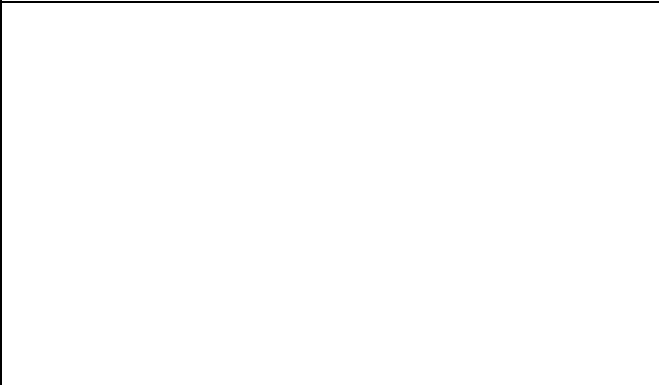
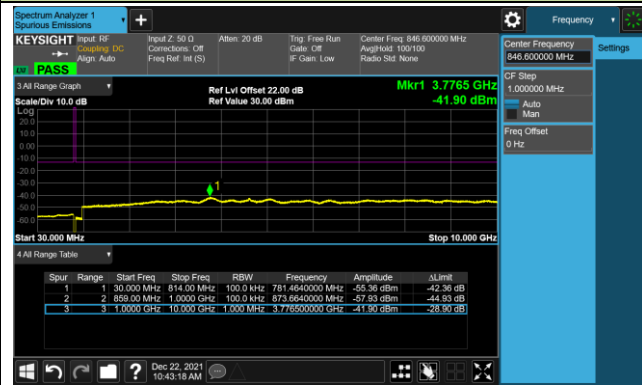
Low Channel



Middle Channel



High Channel



5.8. Radiated Spurious Emission Measurement

5.8.1. Test Limit

Out of band emissions: 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.

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 82.3dB $\mu\text{V/m}$.

5.8.2. Test Procedure

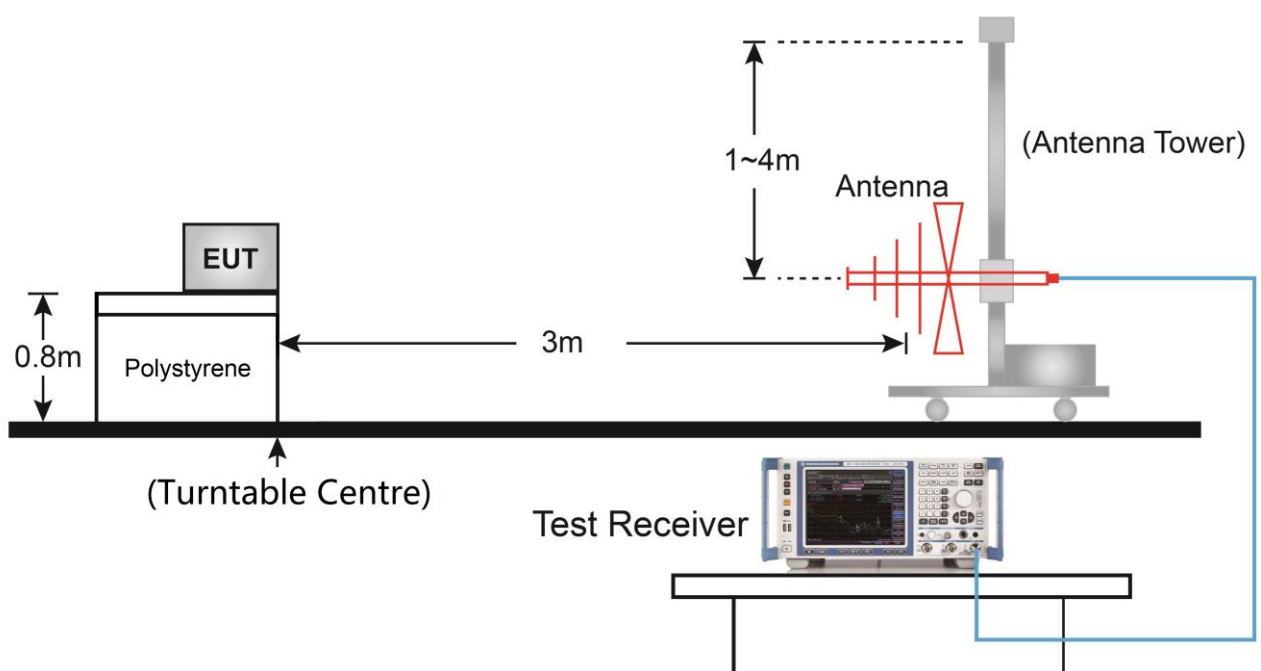
ANSI C63.26-2015 - Section 5.2.7 & 5.5

5.8.3. Test Setting

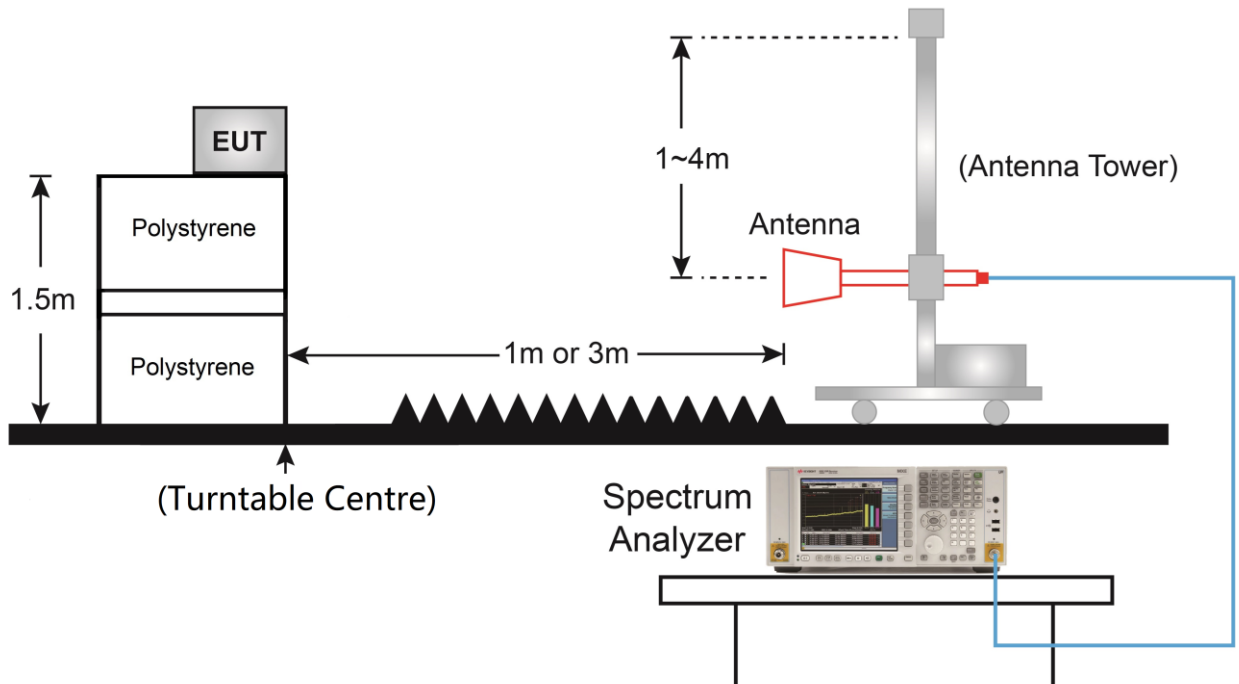
1. RBW = 1MHz
2. VBW $\geq 3 \times$ RBW
3. Sweep time $\geq 10 \times$ (number of points in sweep) \times (transmission symbol period)
4. Detector = Peak
5. Trace mode = max hold
6. The trace was allowed to stabilize

5.8.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.8.5. Test Result

| | | | |
|---------------|-----------------|-----------|-------------------------|
| Product | Mobile Computer | Test Site | SIP-AC3 |
| Test Engineer | Allen Zou | Test Date | 2021/12/23 ~ 2021/12/28 |
| Test Band | GSM 850 | | |

| Frequency (MHz) | Reading Level (dB μ V) | Factor (dB) | Measure Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector | Polarization |
|-----------------------|----------------------------|-------------|------------------------------|----------------------|-------------|----------|--------------|
| Low Channel | | | | | | | |
| 114.9 | 10.1 | 15.4 | 25.5 | 82.3 | -56.8 | Peak | Horizontal |
| 177.0 | 11.5 | 17.1 | 28.6 | 82.3 | -53.7 | Peak | Horizontal |
| 39.7 | 13.3 | 17.8 | 31.1 | 82.3 | -51.2 | Peak | Vertical |
| 114.9 | 10.8 | 15.4 | 26.2 | 82.3 | -56.1 | Peak | Vertical |
| 1649.0 | 72.1 | -18.2 | 53.9 | 82.3 | -28.4 | Peak | Horizontal |
| 2474.0 | 63.7 | -14.8 | 48.9 | 82.3 | -33.4 | Peak | Horizontal |
| 1649.0 | 61.8 | -18.2 | 43.6 | 82.3 | -38.7 | Peak | Vertical |
| 2474.0 | 59.9 | -14.8 | 45.1 | 82.3 | -37.2 | Peak | Vertical |
| Middle Channel | | | | | | | |
| 178.4 | 11.7 | 16.9 | 28.6 | 82.3 | -53.7 | Peak | Horizontal |
| 293.8 | 4.9 | 18.4 | 23.3 | 82.3 | -59.0 | Peak | Horizontal |
| 39.7 | 13.5 | 17.8 | 31.3 | 82.3 | -51.0 | Peak | Vertical |
| 115.8 | 10.6 | 15.5 | 26.1 | 82.3 | -56.2 | Peak | Vertical |
| 1671.0 | 68.6 | -18.0 | 50.6 | 82.3 | -31.7 | Peak | Horizontal |
| 2507.0 | 64.7 | -14.7 | 50.0 | 82.3 | -32.3 | Peak | Horizontal |
| 1671.0 | 61.3 | -18.0 | 43.3 | 82.3 | -39.0 | Peak | Vertical |
| 5147.0 | 53.6 | -9.1 | 44.5 | 82.3 | -37.8 | Peak | Vertical |
| High Channel | | | | | | | |
| 179.4 | 11.9 | 16.8 | 28.7 | 82.3 | -53.6 | Peak | Horizontal |
| 998.1 | 7.7 | 30.0 | 37.7 | 82.3 | -44.6 | Peak | Horizontal |
| 39.7 | 13.6 | 17.8 | 31.4 | 82.3 | -50.9 | Peak | Vertical |
| 106.6 | 12.3 | 14.6 | 26.9 | 82.3 | -55.4 | Peak | Horizontal |
| 1698.5 | 66.6 | -17.9 | 48.7 | 82.3 | -33.6 | Peak | Horizontal |
| 2545.5 | 69.9 | -14.6 | 55.3 | 82.3 | -27.0 | Peak | Vertical |
| 1698.5 | 60.4 | -17.9 | 42.5 | 82.3 | -39.8 | Peak | Vertical |
| 4245.0 | 52.7 | -9.6 | 43.1 | 82.3 | -39.2 | Peak | Horizontal |

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB).

| | | | |
|---------------|-----------------|-----------|-------------------------|
| Product | Mobile Computer | Test Site | SIP-AC3 |
| Test Engineer | Allen Zou | Test Date | 2021/12/23 ~ 2021/12/28 |
| Test Band | PCS 1900 | | |

| Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|-----------------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| Low Channel | | | | | | | |
| 176.5 | 10.3 | 17.1 | 27.4 | 82.3 | -54.9 | Peak | Horizontal |
| 755.6 | 2.1 | 28.2 | 30.3 | 82.3 | -52.0 | Peak | Horizontal |
| 39.7 | 12.2 | 17.8 | 30.0 | 82.3 | -52.3 | Peak | Vertical |
| 114.9 | 11.6 | 15.4 | 27.0 | 82.3 | -55.3 | Peak | Vertical |
| 5547.5 | 56.5 | -8.9 | 47.6 | 82.3 | -34.7 | Peak | Horizontal |
| 17464.5 | 46.8 | 4.9 | 51.7 | 82.3 | -30.6 | Peak | Horizontal |
| 5547.5 | 51.5 | -8.9 | 42.6 | 82.3 | -39.7 | Peak | Vertical |
| 16895.0 | 46.1 | 4.6 | 50.7 | 82.3 | -31.6 | Peak | Vertical |
| Middle Channel | | | | | | | |
| 176.5 | 10.7 | 17.1 | 27.8 | 82.3 | -54.5 | Peak | Horizontal |
| 945.2 | 0.5 | 30.1 | 30.6 | 82.3 | -51.7 | Peak | Horizontal |
| 39.2 | 12.4 | 17.8 | 30.2 | 82.3 | -52.1 | Peak | Vertical |
| 47.9 | 10.7 | 18.2 | 28.9 | 82.3 | -53.4 | Peak | Vertical |
| 5641.0 | 53.5 | -8.8 | 44.7 | 82.3 | -37.6 | Peak | Horizontal |
| 17932.0 | 46.0 | 5.5 | 51.5 | 82.3 | -30.8 | Peak | Horizontal |
| 5641.0 | 53.6 | -8.8 | 44.8 | 82.3 | -37.5 | Peak | Vertical |
| 17787.5 | 46.8 | 5.5 | 52.3 | 82.3 | -30.0 | Peak | Vertical |
| High Channel | | | | | | | |
| 173.1 | 9.8 | 17.5 | 27.3 | 82.3 | -55.0 | Peak | Horizontal |
| 870.5 | 1.1 | 28.8 | 29.9 | 82.3 | -52.4 | Peak | Horizontal |
| 39.2 | 12.5 | 17.8 | 30.3 | 82.3 | -52.0 | Peak | Vertical |
| 114.9 | 11.4 | 15.4 | 26.8 | 82.3 | -55.5 | Peak | Vertical |
| 5726.0 | 52.9 | -8.8 | 44.1 | 82.3 | -38.2 | Peak | Horizontal |
| 17762.0 | 46.8 | 5.6 | 52.4 | 82.3 | -29.9 | Peak | Horizontal |
| 5726.0 | 52.6 | -8.8 | 43.8 | 82.3 | -38.5 | Peak | Vertical |
| 17762.0 | 45.8 | 5.6 | 51.4 | 82.3 | -30.9 | Peak | Vertical |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).

| | | | |
|---------------|-----------------|-----------|-------------------------|
| Product | Mobile Computer | Test Site | SIP-AC3 |
| Test Engineer | Allen Zou | Test Date | 2021/12/23 ~ 2021/12/28 |
| Test Band | WCDMA Band II | | |

| Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|-----------------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| Low Channel | | | | | | | |
| 176.0 | 10.0 | 17.2 | 27.2 | 82.3 | -55.1 | Peak | Horizontal |
| 935.0 | 0.5 | 30.0 | 30.5 | 82.3 | -51.8 | Peak | Horizontal |
| 39.2 | 13.0 | 17.8 | 30.8 | 82.3 | -51.5 | Peak | Vertical |
| 47.9 | 12.5 | 18.2 | 30.7 | 82.3 | -51.6 | Peak | Vertical |
| 3703.0 | 54.2 | -10.7 | 43.5 | 82.3 | -38.8 | Peak | Horizontal |
| 17685.5 | 46.4 | 5.4 | 51.8 | 82.3 | -30.5 | Peak | Horizontal |
| 3703.0 | 55.1 | -10.7 | 44.4 | 82.3 | -37.9 | Peak | Vertical |
| 17371.0 | 46.6 | 5.0 | 51.6 | 82.3 | -30.7 | Peak | Vertical |
| Middle Channel | | | | | | | |
| 176.5 | 10.7 | 17.1 | 27.8 | 82.3 | -54.5 | Peak | Horizontal |
| 952.5 | 0.4 | 30.2 | 30.6 | 82.3 | -51.7 | Peak | Horizontal |
| 39.2 | 12.3 | 17.8 | 30.1 | 82.3 | -52.2 | Peak | Vertical |
| 47.9 | 13.7 | 18.2 | 31.9 | 82.3 | -50.4 | Peak | Vertical |
| 3762.5 | 52.7 | -10.6 | 42.1 | 82.3 | -40.2 | Peak | Horizontal |
| 16580.5 | 47.4 | 4.2 | 51.6 | 82.3 | -30.7 | Peak | Horizontal |
| 3762.5 | 54.5 | -10.6 | 43.9 | 82.3 | -38.4 | Peak | Vertical |
| 17473.0 | 46.3 | 5.0 | 51.3 | 82.3 | -31.0 | Peak | Vertical |
| High Channel | | | | | | | |
| 177.9 | 10.4 | 16.9 | 27.3 | 82.3 | -55.0 | Peak | Horizontal |
| 962.2 | 0.2 | 30.0 | 30.2 | 82.3 | -52.1 | Peak | Horizontal |
| 39.2 | 12.9 | 17.8 | 30.7 | 82.3 | -51.6 | Peak | Vertical |
| 47.9 | 11.7 | 18.2 | 29.9 | 82.3 | -52.4 | Peak | Vertical |
| 3813.5 | 53.3 | -10.5 | 42.8 | 82.3 | -39.5 | Peak | Horizontal |
| 17940.5 | 46.3 | 5.4 | 51.7 | 82.3 | -30.6 | Peak | Horizontal |
| 3813.5 | 56.9 | -10.5 | 46.4 | 82.3 | -35.9 | Peak | Vertical |
| 17932.0 | 45.9 | 5.5 | 51.4 | 82.3 | -30.9 | Peak | Vertical |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

| | | | |
|---------------|-----------------|-----------|-------------------------|
| Product | Mobile Computer | Test Site | SIP-AC3 |
| Test Engineer | Allen Zou | Test Date | 2021/12/23 ~ 2021/12/28 |
| Test Band | WCDMA Band IV | | |

| Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|-----------------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| Low Channel | | | | | | | |
| 176.5 | 10.3 | 17.1 | 27.4 | 82.3 | -54.9 | Peak | Horizontal |
| 956.4 | 0.8 | 30.1 | 30.9 | 82.3 | -51.4 | Peak | Horizontal |
| 39.2 | 12.8 | 17.8 | 30.6 | 82.3 | -51.7 | Peak | Vertical |
| 47.9 | 13.2 | 18.2 | 31.4 | 82.3 | -50.9 | Peak | Vertical |
| 14217.5 | 48.2 | 1.4 | 49.6 | 82.3 | -32.7 | Peak | Horizontal |
| 17668.5 | 46.4 | 5.3 | 51.7 | 82.3 | -30.6 | Peak | Horizontal |
| 8769.0 | 48.5 | -4.0 | 44.5 | 82.3 | -37.8 | Peak | Vertical |
| 17915.0 | 46.3 | 5.4 | 51.7 | 82.3 | -30.6 | Peak | Vertical |
| Middle Channel | | | | | | | |
| 175.5 | 9.9 | 17.2 | 27.1 | 82.3 | -55.2 | Peak | Horizontal |
| 881.2 | 2.0 | 29.2 | 31.2 | 82.3 | -51.1 | Peak | Horizontal |
| 39.7 | 12.8 | 17.8 | 30.6 | 82.3 | -51.7 | Peak | Vertical |
| 47.9 | 12.5 | 18.2 | 30.7 | 82.3 | -51.6 | Peak | Vertical |
| 9041.0 | 49.1 | -3.7 | 45.4 | 82.3 | -36.9 | Peak | Horizontal |
| 16759.0 | 46.8 | 4.7 | 51.5 | 82.3 | -30.8 | Peak | Horizontal |
| 6958.5 | 51.8 | -7.0 | 44.8 | 82.3 | -37.5 | Peak | Vertical |
| 17872.5 | 46.2 | 5.3 | 51.5 | 82.3 | -30.8 | Peak | Vertical |
| High Channel | | | | | | | |
| 175.5 | 10.0 | 17.2 | 27.2 | 82.3 | -55.1 | Peak | Horizontal |
| 927.7 | 0.6 | 29.9 | 30.5 | 82.3 | -51.8 | Peak | Horizontal |
| 39.7 | 13.2 | 17.8 | 31.0 | 82.3 | -51.3 | Peak | Vertical |
| 47.9 | 13.3 | 18.2 | 31.5 | 82.3 | -50.8 | Peak | Vertical |
| 9610.5 | 48.9 | -3.4 | 45.5 | 82.3 | -36.8 | Peak | Horizontal |
| 17991.5 | 45.9 | 5.6 | 51.5 | 82.3 | -30.8 | Peak | Horizontal |
| 8769.0 | 50.1 | -4.0 | 46.1 | 82.3 | -36.2 | Peak | Vertical |
| 17422.0 | 47.7 | 4.7 | 52.4 | 82.3 | -29.9 | Peak | Vertical |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

| | | | |
|---------------|-----------------|-----------|-------------------------|
| Product | Mobile Computer | Test Site | SIP-AC3 |
| Test Engineer | Allen Zou | Test Date | 2021/12/23 ~ 2021/12/28 |
| Test Band | WCDMA Band V | | |

| Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|-----------------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
| Low Channel | | | | | | | |
| 179.4 | 12.7 | 16.8 | 29.5 | 82.3 | -52.8 | Peak | Horizontal |
| 872.0 | 37.6 | 28.9 | 66.5 | 82.3 | -15.8 | Peak | Horizontal |
| 39.7 | 14.5 | 17.8 | 32.3 | 82.3 | -50.0 | Peak | Vertical |
| 871.5 | 36.0 | 28.9 | 64.9 | 82.3 | -17.4 | Peak | Vertical |
| 1649.0 | 54.5 | -18.2 | 36.3 | 82.3 | -46.0 | Peak | Horizontal |
| 4382.5 | 50.8 | -9.6 | 41.2 | 82.3 | -41.1 | Peak | Horizontal |
| 3403.5 | 50.4 | -11.4 | 39.0 | 82.3 | -43.3 | Peak | Vertical |
| 4377.0 | 51.0 | -9.6 | 41.4 | 82.3 | -40.9 | Peak | Vertical |
| Middle Channel | | | | | | | |
| 176.0 | 12.9 | 17.2 | 30.1 | 82.3 | -52.2 | Peak | Horizontal |
| 878.3 | 38.6 | 29.1 | 67.7 | 82.3 | -14.6 | Peak | Horizontal |
| 39.7 | 14.5 | 17.8 | 32.3 | 82.3 | -50.0 | Peak | Vertical |
| 881.2 | 34.4 | 29.2 | 63.6 | 82.3 | -18.7 | Peak | Vertical |
| 1671.0 | 53.9 | -18.0 | 35.9 | 82.3 | -46.4 | Peak | Horizontal |
| 9140.0 | 48.9 | -3.8 | 45.1 | 82.3 | -37.2 | Peak | Horizontal |
| 2930.5 | 51.2 | -13.2 | 38.0 | 82.3 | -44.3 | Peak | Vertical |
| 4371.5 | 50.6 | -9.6 | 41.0 | 82.3 | -41.3 | Peak | Vertical |
| High Channel | | | | | | | |
| 173.6 | 12.8 | 17.4 | 30.2 | 82.3 | -52.1 | Peak | Horizontal |
| 890.9 | 37.1 | 29.2 | 66.3 | 82.3 | -16.0 | Peak | Horizontal |
| 39.7 | 15.2 | 17.8 | 33.0 | 82.3 | -49.3 | Peak | Vertical |
| 890.4 | 34.4 | 29.2 | 63.6 | 82.3 | -18.7 | Peak | Vertical |
| 1693.0 | 56.8 | -17.9 | 38.9 | 82.3 | -43.4 | Peak | Horizontal |
| 7352.5 | 51.0 | -6.4 | 44.6 | 82.3 | -37.7 | Peak | Horizontal |
| 5064.5 | 50.5 | -9.1 | 41.4 | 82.3 | -40.9 | Peak | Vertical |
| 7022.5 | 50.7 | -6.9 | 43.8 | 82.3 | -38.5 | Peak | Vertical |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Appendix A - Test Setup Photograph

Refer to "2111RSU064-UT" file.

Appendix B - EUT Photograph

Refer to "2111RSU064-UE" file.

————— The End —————