



# TEST REPORT

**APPLICANT** : Sun Cupid Technology (HK) Ltd.

**PRODUCT NAME** : 5G Smartphone

**MODEL NAME** : S6710X

**MARKETING NAME** : NUU B40, B40

**BRAND NAME** : NUU

**FCC ID** : 2ADINS6710X

**STANDARD(S)** : 47 CFR Part 2  
47 CFR Part 22 Subpart H  
47 CFR Part 24 Subpart E  
47 CFR Part 27 Subpart L

**RECEIPT DATE** : 2025-07-03

**TEST DATE** : 2025-07-04 to 2025-08-14

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# DIRECTORY

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| Change History |            |                   |
|----------------|------------|-------------------|
| Version        | Date       | Reason for change |
| 1.0            | 2025-08-22 | First edition     |
|                |            |                   |



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

|                              |                                                                          |
|------------------------------|--------------------------------------------------------------------------|
| <b>Applicant:</b>            | Sun Cupid Technology (HK) Ltd.                                           |
| <b>Applicant Address:</b>    | 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, HongKong. |
| <b>Manufacturer:</b>         | Sun Cupid Technology (HK) Ltd.                                           |
| <b>Manufacturer Address:</b> | 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, HongKong. |

## 1.2. Equipment Under Test (EUT) Description

|                                   |                                                                                                                                                                                          |                                            |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Product Name:</b>              | 5G Smartphone                                                                                                                                                                            |                                            |
| <b>Sample No.:</b>                | 4#, 23#                                                                                                                                                                                  |                                            |
| <b>Hardware Version:</b>          | S6710X-01                                                                                                                                                                                |                                            |
| <b>Software Version:</b>          | S6710X-AM-V-MV25608-03                                                                                                                                                                   |                                            |
| <b>Modulation Type:</b>           | GSM/GPRS Mode with GMSK Modulation<br>EDGE Mode with 8PSK Modulation<br>WCDMA Mode with QPSK Modulation<br>HSDPA / DC-HSDPA Mode with QPSK Modulation<br>HSUPA Mode with QPSK Modulation |                                            |
| <b>Operating Frequency Range:</b> | GSM 850MHz                                                                                                                                                                               | Tx: 824MHz-849MHz<br>Rx: 869MHz-894MHz     |
|                                   | GSM 1900MHz                                                                                                                                                                              | Tx: 1850MHz-1910MHz<br>Rx: 1930MHz-1990MHz |
|                                   | WCDMA Band V                                                                                                                                                                             | Tx: 824MHz-849MHz                          |
|                                   |                                                                                                                                                                                          | Rx: 869MHz-894MHz                          |
|                                   | WCDMA Band IV                                                                                                                                                                            | Tx: 1710MHz-1755MHz                        |
|                                   |                                                                                                                                                                                          | Rx: 2110MHz-2155MHz                        |
|                                   | WCDMA Band II                                                                                                                                                                            | Tx: 1850MHz-1910MHz                        |
|                                   |                                                                                                                                                                                          | Rx: 1930MHz-1990MHz                        |
| <b>Antenna Type:</b>              | PIFA Antenna                                                                                                                                                                             |                                            |
| <b>Antenna Gain:</b>              | GSM 850:                                                                                                                                                                                 | -3.70dBi                                   |
|                                   | GSM1900:                                                                                                                                                                                 | -1.50dBi                                   |



|                               |                |                                                                                                                                                                                                      |
|-------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antenna Gain:</b>          | WCDMA Band V:  | -3.70dBi                                                                                                                                                                                             |
|                               | WCDMA Band IV: | -1.70dBi                                                                                                                                                                                             |
|                               | WCDMA Band II: | -1.50dBi                                                                                                                                                                                             |
| <b>Accessory Information:</b> | Battery        |                                                                                                                                                                                                      |
|                               | Brand Name:    | N/A                                                                                                                                                                                                  |
|                               | Model No.:     | BL-A60CT                                                                                                                                                                                             |
|                               | Serial No.:    | N/A                                                                                                                                                                                                  |
|                               | Capacity:      | 4900mAh                                                                                                                                                                                              |
|                               | Rated Voltage: | 3.87V                                                                                                                                                                                                |
|                               | Charge Limit:  | 4.45V                                                                                                                                                                                                |
|                               | Manufacturer:  | Huizhou Highpower Technology Co., Ltd.                                                                                                                                                               |
|                               | AC Adapter     |                                                                                                                                                                                                      |
|                               | Brand Name:    | NUU                                                                                                                                                                                                  |
|                               | Model No.:     | 552A-033G-1C                                                                                                                                                                                         |
|                               | Serial No.:    | N/A                                                                                                                                                                                                  |
|                               | Rated Output:  | 5.0V $\Rightarrow$ 3.0A; 9.0V $\Rightarrow$ 3.0A; 12.0V $\Rightarrow$ 2.5A;<br>15.0V $\Rightarrow$ 2.0A; 20.0V $\Rightarrow$ 1.5A<br>PPS: 5.0-11.0V $\Rightarrow$ 3.0A; 5.0-16.0V $\Rightarrow$ 2.0A |
|                               | Rated Input:   | 100-240V $\sim$ 50/60Hz, 1.0A                                                                                                                                                                        |
|                               | Manufacturer:  | SHENZHEN BAIJUNDA ELECTRONICS CO.,LTD                                                                                                                                                                |

**Note 1:** The transmitter (Tx) frequency arrangement of the Cellular 850MHz band used by the EUT can be represented with the formula  $F(n)=824.2+0.2*(n-128)$ ,  $128 \leq n \leq 251$ ; the lowest, middle, highest channel numbers (ARFCHs) used and tested in this report are separately 128 (824.2MHz), 189 (836.4MHz) and 251 (848.8MHz).

**Note 2:** The transmitter (Tx) frequency arrangement of the PCS 1900MHz band used by the EUT can be represented with the formula  $F(n)=1850.2+0.2*(n-512)$ ,  $512 \leq n \leq 810$ ; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 512 (1850.2MHz), 661 (1880.0MHz) and 810 (1909.8MHz).

**Note 3:** The transmitter (Tx) frequency arrangement of the WCDMA Band V used by the EUT can be represented with the formula  $F(n)=826.4+0.2*(n-4132)$ ,  $4132 \leq n \leq 4233$ ; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 4132 (826.4MHz), 4182(836.4MHz) and 4233 (846.6MHz).

**Note 4:** The transmitter (Tx) frequency arrangement of the WCDMA IV band used by the EUT can be represented with the formula  $F(n)=1712.4+0.2*(n-1312)$ ,  $1312 \leq n \leq 1513$ ; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 1312 (1712.4MHz), 1413 (1732.6MHz) and 1513 (1752.6MHz).

**Note 5:** The transmitter (Tx) frequency arrangement of the WCDMA Band II used by the EUT can





be represented with the formula  $F(n)=1852.4+0.2*(n-9262)$ ,  $9262 \leq n \leq 9538$ ; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 9262 (1852.4MHz), 9400 (1880MHz) and 9538 (1907.6MHz).

**Note 6:** All test modes and data rates were considered and evaluated respectively by performing full test. Test modes are chosen to be reported as the worst case below:

GSM mode and EDGE mode for GSM 850;

GSM mode and EDGE mode for GSM 1900;

WCDMA mode for WCDMA band V;

WCDMA mode for WCDMA band IV;

WCDMA mode for WCDMA band II;

**Note 7:** The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

### 1.3. Maximum E.R.P./E.I.R.P. and Emission Designator

| Test Mode     | Maximum E.R.P./E.I.R.P. (W) | Emission Designator |
|---------------|-----------------------------|---------------------|
| GSM850(GSM)   | 0.515                       | 251KGXW             |
| GSM850(EDGE)  | 0.145                       | 257KG7W             |
| GSM1900(GSM)  | 0.743                       | 246KGXW             |
| GSM1900(EDGE) | 0.313                       | 257KG7W             |
| WCDMA Band V  | 0.056                       | 4M16F9W             |
| WCDMA Band IV | 0.146                       | 4M17F9W             |
| WCDMA Band II | 0.149                       | 4M18F9W             |



## 1.4. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

| No. | Identity                         | Document Title                                                                |
|-----|----------------------------------|-------------------------------------------------------------------------------|
| 1   | 47 CFR Part 2 (10-1-12 Edition)  | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations |
| 2   | 47 CFR Part 22 (10-1-12 Edition) | Public Mobile Services                                                        |
| 3   | 47 CFR Part 24 (10-1-12 Edition) | Personal Communications Services                                              |
| 4   | 47 CFR Part 27 (10-1-12 Edition) | Miscellaneous Wireless Communications Services                                |

Test detailed items/section required by FCC rules and results are as below:

| No. | Section                                | Description                                  | Test Date        | Test Engineer | Result                | Remark |
|-----|----------------------------------------|----------------------------------------------|------------------|---------------|-----------------------|--------|
| 1   | 2.1046                                 | Conducted RF Output Power                    | Aug. 13, 2025    | Yu Xiaoming   | PASS                  | /      |
| 2   | 24.232(d)                              | Peak -Average Ratio                          | Jul. 11, 2025    | Liu Huiyan    | PASS                  | /      |
| 3   | 2.1049                                 | Occupied Bandwidth                           | Jul. 11, 2025    | Liu Huiyan    | PASS                  | /      |
| 4   | 2.1055, 22.355, 24.235, 27.54          | Frequency Stability                          | Aug. 14, 2025    | Liu Huiyan    | PASS                  | /      |
| 5   | 2.1051, 22.917(a), 24.238(a), 27.53(h) | Conducted Out of Band Emissions              | Jul. 11&12, 2025 | Liu Huiyan    | PASS                  | /      |
| 6   | 2.1051, 22.917(a), 24.238(a), 27.53(h) | Band Edge                                    | Jul. 10&12, 2025 | Liu Huiyan    | PASS                  | /      |
| 7   | 22.913(a), 24.232(c), 27.50(d)         | Transmitter Radiated Power (E.I.P.R./E.R.P.) | Aug. 13, 2025    | Liu Huiyan    | PASS <sub>Note3</sub> | /      |
| 8   | 2.1051, 22.917(a), 24.238(a)           | Radiated Out of Band Emissions               | Jul. 11, 2025    | Gao Jianrou   | PASS                  | /      |





|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|--|--|--|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 27.53(h) |  |  |  |  |  |
| <p><b>Note 1:</b> The tests were performed according to the method of measurements prescribed in KDB 971168 D01 v03r01 and ANSI/TIA-603-E-2016.</p> <p><b>Note 2:</b> Any additions, deviation, or exclusions from the method shall be noted in the "Remark".</p> <p><b>Note 3:</b> The antenna gain presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information.</p> |          |  |  |  |  |  |

## 1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

|                             |        |
|-----------------------------|--------|
| Temperature (°C):           | 15-35  |
| Relative Humidity (%):      | 30-60  |
| Atmospheric Pressure (kPa): | 86-106 |



## 2.47 CFR Part 2, Part 22H, 24E&27L Requirements

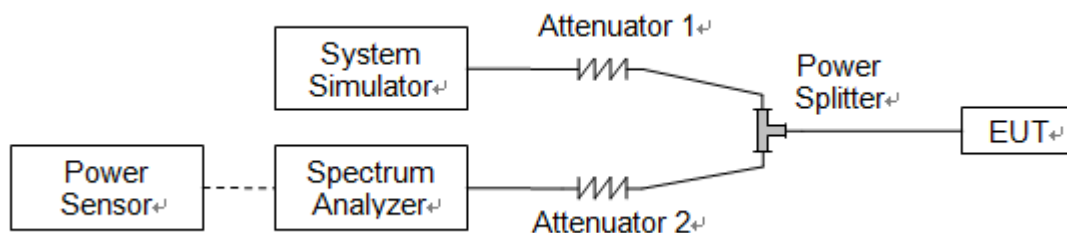
### 2.1. Conducted RF Output Power

#### 2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

#### 2.1.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.





**2.1.3. Test Results**

| <b>GSM850</b>          | <b>Average Power (dBm)</b> |              |              |
|------------------------|----------------------------|--------------|--------------|
| <b>TX Channel</b>      | <b>128</b>                 | <b>189</b>   | <b>251</b>   |
| <b>Frequency (MHz)</b> | <b>824.2</b>               | <b>836.4</b> | <b>848.8</b> |
| GSM 1 Tx slot          | 32.91                      | 32.94        | 32.97        |
| GPRS 1 Tx slot         | 32.93                      | 32.95        | 32.92        |
| GPRS 2 Tx slots        | 31.96                      | 32.04        | 32.02        |
| GPRS 3 Tx slots        | 29.98                      | 30.02        | 29.97        |
| GPRS 4 Tx slots        | 28.91                      | 28.94        | 28.92        |
| EDGE 1 Tx slot         | 27.25                      | 27.23        | 27.45        |
| EDGE 2 Tx slots        | 25.79                      | 25.65        | 25.63        |
| EDGE 3 Tx slots        | 23.37                      | 23.45        | 23.39        |
| EDGE 4 Tx slots        | 22.38                      | 22.36        | 22.56        |

| <b>GSM1900</b>         | <b>Average Power (dBm)</b> |             |               |
|------------------------|----------------------------|-------------|---------------|
| <b>TX Channel</b>      | <b>512</b>                 | <b>661</b>  | <b>810</b>    |
| <b>Frequency (MHz)</b> | <b>1850.2</b>              | <b>1880</b> | <b>1909.8</b> |
| GSM 1 Tx slot          | 30.15                      | 29.99       | 30.21         |
| GPRS 1 Tx slot         | 30.14                      | 30.02       | 30.16         |
| GPRS 2 Tx slots        | 28.13                      | 28.01       | 28.25         |
| GPRS 3 Tx slots        | 26.11                      | 26.01       | 26.25         |
| GPRS 4 Tx slots        | 25.16                      | 25.19       | 25.23         |
| EDGE 1 Tx slot         | 26.32                      | 26.38       | 26.46         |
| EDGE 2 Tx slots        | 25.61                      | 25.60       | 25.50         |
| EDGE 3 Tx slots        | 23.23                      | 23.37       | 23.34         |
| EDGE 4 Tx slots        | 22.08                      | 22.16       | 22.19         |





| WCDMA Band V            | Average Power (dBm) |       |       |
|-------------------------|---------------------|-------|-------|
| TX Channel              | 4132                | 4182  | 4233  |
| Frequency (MHz)         | 826.4               | 836.4 | 846.6 |
| RMC 12.2Kbps            | 23.27               | 23.37 | 23.31 |
| HSDPA Subtest-1         | 22.41               | 22.39 | 22.38 |
| HSDPA Subtest-2         | 22.42               | 22.36 | 22.32 |
| HSDPA Subtest-3         | 21.88               | 21.90 | 21.92 |
| HSDPA Subtest-4         | 21.87               | 21.91 | 21.82 |
| DC-HSDPA Subtest-1      | 22.44               | 22.41 | 22.43 |
| DC-HSDPA Subtest-2      | 22.47               | 22.43 | 22.44 |
| DC-HSDPA Subtest-3      | 21.89               | 21.87 | 21.90 |
| DC-HSDPA Subtest-4      | 21.91               | 21.88 | 21.85 |
| HSUPA Subtest-1         | 21.67               | 21.68 | 21.64 |
| HSUPA Subtest-2         | 22.23               | 22.22 | 22.19 |
| HSUPA Subtest-3         | 21.25               | 21.07 | 21.17 |
| HSUPA Subtest-4         | 22.22               | 22.22 | 22.21 |
| HSUPA Subtest-5         | 21.16               | 21.20 | 21.18 |
| HSPA+ (16QAM) Subtest-1 | 21.08               | 21.07 | 20.63 |

| WCDMA Band IV           | Average Power (dBm) |        |        |
|-------------------------|---------------------|--------|--------|
| TX Channel              | 1312                | 1413   | 1513   |
| Frequency (MHz)         | 1712.4              | 1732.6 | 1752.6 |
| RMC 12.2Kbps            | 23.29               | 23.33  | 23.30  |
| HSDPA Subtest-1         | 22.28               | 22.20  | 22.22  |
| HSDPA Subtest-2         | 22.27               | 22.15  | 22.17  |
| HSDPA Subtest-3         | 21.81               | 21.68  | 21.66  |
| HSDPA Subtest-4         | 21.75               | 21.65  | 21.67  |
| DC-HSDPA Subtest-1      | 22.13               | 22.02  | 22.07  |
| DC-HSDPA Subtest-2      | 22.11               | 22.00  | 22.02  |
| DC-HSDPA Subtest-3      | 21.62               | 21.47  | 21.48  |
| DC-HSDPA Subtest-4      | 21.66               | 21.52  | 21.49  |
| HSUPA Subtest-1         | 21.76               | 21.55  | 21.60  |
| HSUPA Subtest-2         | 22.07               | 22.02  | 22.00  |
| HSUPA Subtest-3         | 21.21               | 21.02  | 20.99  |
| HSUPA Subtest-4         | 22.10               | 22.01  | 22.03  |
| HSUPA Subtest-5         | 21.09               | 20.96  | 20.95  |
| HSPA+ (16QAM) Subtest-1 | 21.03               | 21.06  | 21.04  |





| WCDMA Band II           | Average Power (dBm) |        |        |
|-------------------------|---------------------|--------|--------|
| TX Channel              | 9262                | 9400   | 9538   |
| Frequency (MHz)         | 1852.4              | 1880.0 | 1907.6 |
| RMC 12.2Kbps            | 23.12               | 23.22  | 23.17  |
| HSDPA Subtest-1         | 22.26               | 22.30  | 22.32  |
| HSDPA Subtest-2         | 22.25               | 22.19  | 22.29  |
| HSDPA Subtest-3         | 21.81               | 21.78  | 21.87  |
| HSDPA Subtest-4         | 21.74               | 21.69  | 21.78  |
| DC-HSDPA Subtest-1      | 22.15               | 22.06  | 22.16  |
| DC-HSDPA Subtest-2      | 22.13               | 22.07  | 22.12  |
| DC-HSDPA Subtest-3      | 21.58               | 21.57  | 22.16  |
| DC-HSDPA Subtest-4      | 21.56               | 21.55  | 21.62  |
| HSUPA Subtest-1         | 21.60               | 21.51  | 21.60  |
| HSUPA Subtest-2         | 22.15               | 22.12  | 22.15  |
| HSUPA Subtest-3         | 21.15               | 21.10  | 21.14  |
| HSUPA Subtest-4         | 22.14               | 22.05  | 22.15  |
| HSUPA Subtest-5         | 21.12               | 21.07  | 21.11  |
| HSPA+ (16QAM) Subtest-1 | 21.11               | 21.14  | 21.17  |



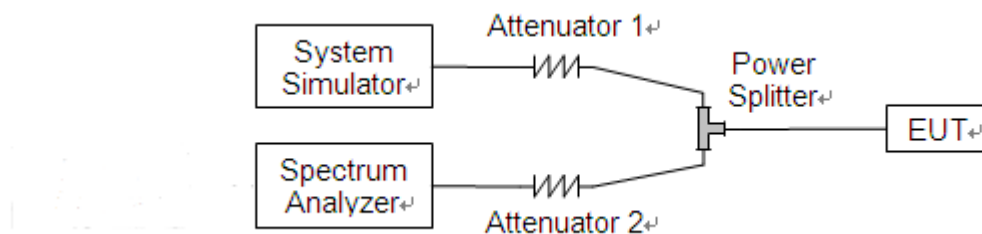
## 2.2. Peak to Average Ratio

### 2.2.1. Requirement

According to FCC 24.232(d) and 27.50(d), the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### 2.2.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

### 2.2.3. Test procedure

1. For GSM/EDGE operating mode:
  - a. Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
  - b. Set EUT in maximum output power, and triggered the bust signal.
  - c. Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average ratio.
2. For UMTS operating mode:
  - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
  - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%.



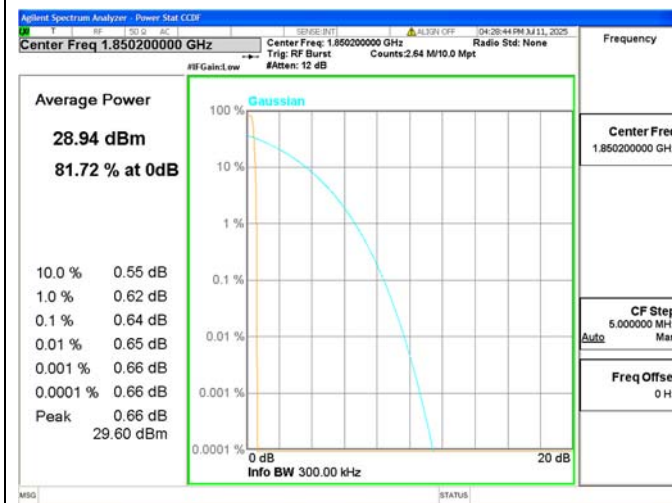
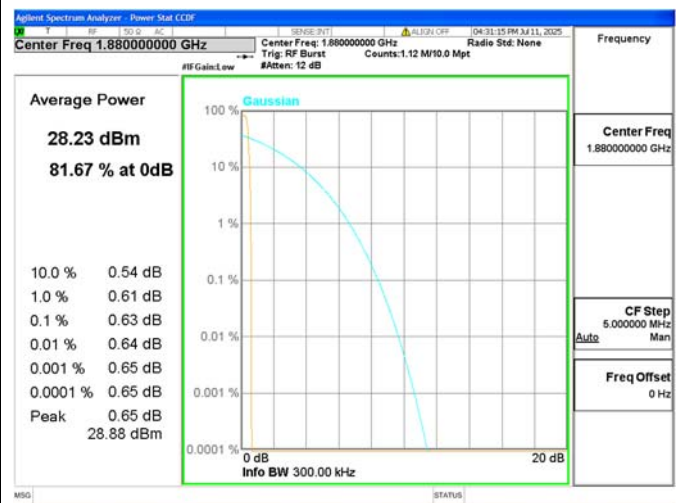
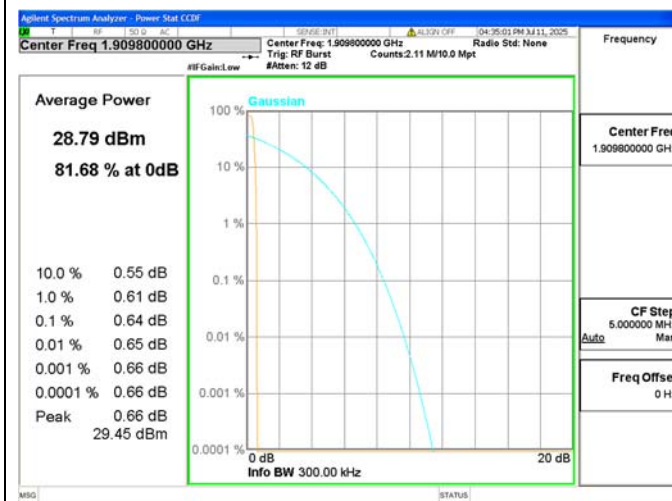
**2.2.4. Test Result****A. Test Verdict:**

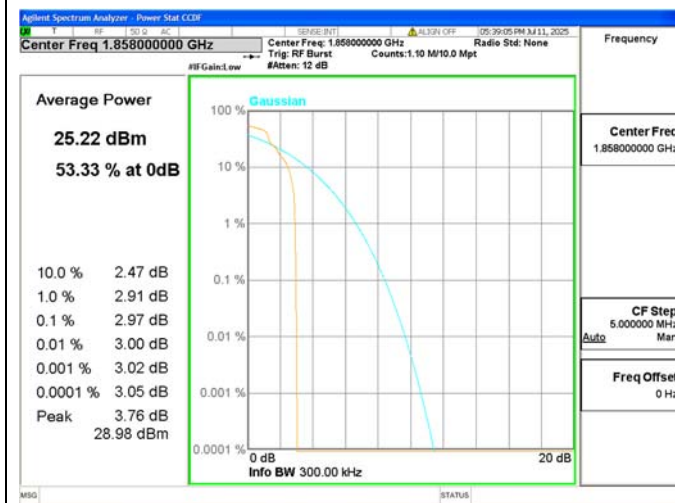
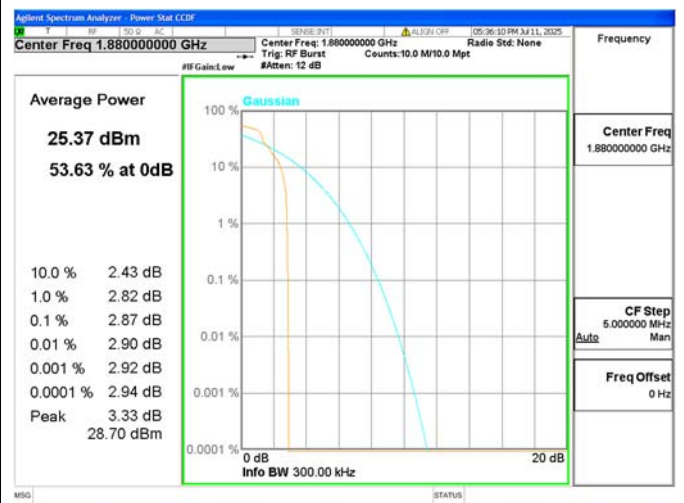
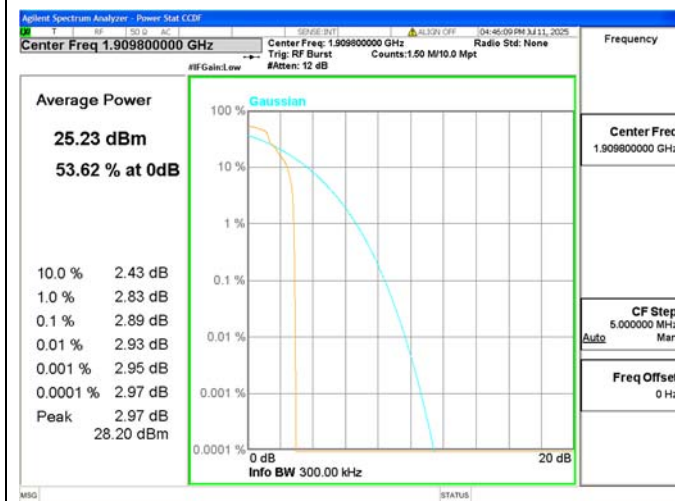
| GSM1900 |         |                 |                            |            |         |
|---------|---------|-----------------|----------------------------|------------|---------|
| Mode    | Channel | Frequency (MHz) | Peak to Average ratio (dB) | Limit (dB) | Verdict |
| GSM     | 512     | 1850.2          | 0.64                       | 13         | PASS    |
|         | 661     | 1880.0          | 0.63                       |            | PASS    |
|         | 810     | 1909.8          | 0.64                       |            | PASS    |
| EDGE    | 512     | 1850.2          | 2.97                       |            | PASS    |
|         | 661     | 1880.0          | 2.87                       |            | PASS    |
|         | 810     | 1909.8          | 2.89                       |            | PASS    |

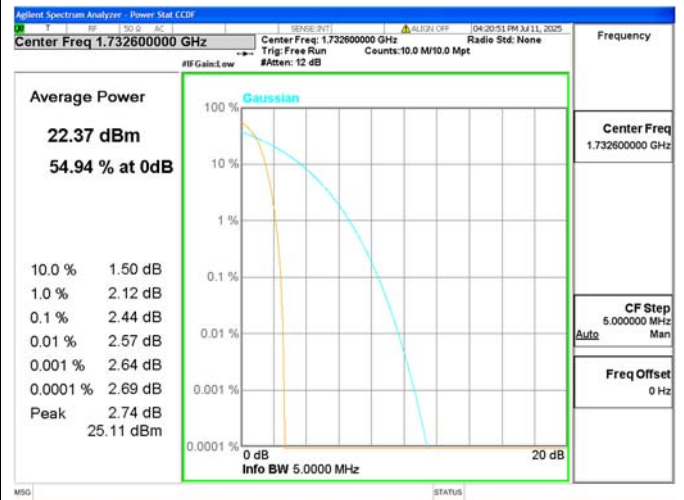
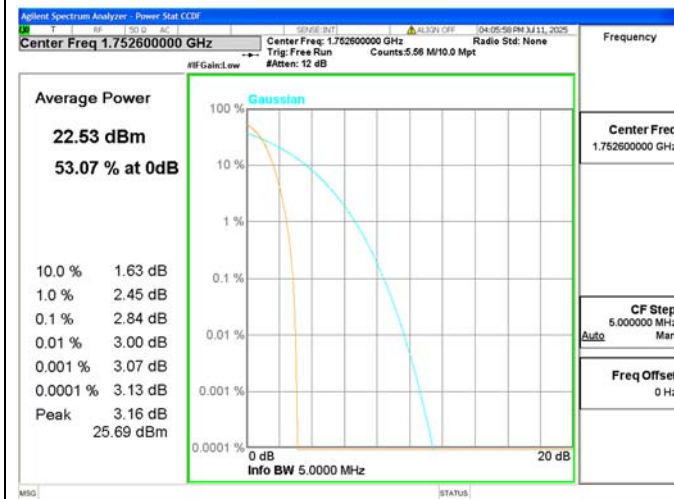
| WCDMA Band IV |         |                 |                            |            |         |
|---------------|---------|-----------------|----------------------------|------------|---------|
| Mode          | Channel | Frequency (MHz) | Peak to Average ratio (dB) | Limit (dB) | Verdict |
| WCDMA         | 1312    | 1712.4          | 3.01                       | 13         | PASS    |
|               | 1413    | 1732.6          | 2.44                       |            | PASS    |
|               | 1513    | 1752.6          | 2.84                       |            | PASS    |

| WCDMA Band II |         |                 |                            |            |         |
|---------------|---------|-----------------|----------------------------|------------|---------|
| Mode          | Channel | Frequency (MHz) | Peak to Average ratio (dB) | Limit (dB) | Verdict |
| WCDMA         | 9262    | 1852.4          | 2.75                       | 13         | PASS    |
|               | 9400    | 1880.0          | 2.78                       |            | PASS    |
|               | 9538    | 1907.6          | 2.53                       |            | PASS    |



**GSM1900(GSM), CH512, 1850.2MHz****GSM1900(GSM), CH661, 1880.0MHz****GSM1900(GSM), CH810, 1909.8MHz**

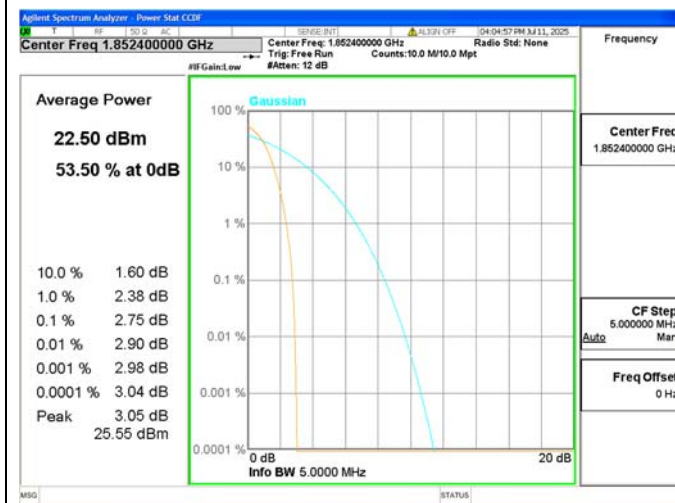
**GSM1900(EDGE), CH512, 1850.2MHz****GSM1900(EDGE), CH661, 1880.0MHz****GSM1900(EDGE), CH810, 1909.8MHz**

**WCDMA Band IV, CH1312, 1712.4MHz****WCDMA Band IV, CH1413, 1732.6MHz****WCDMA Band IV, CH1513, 1752.6MHz**

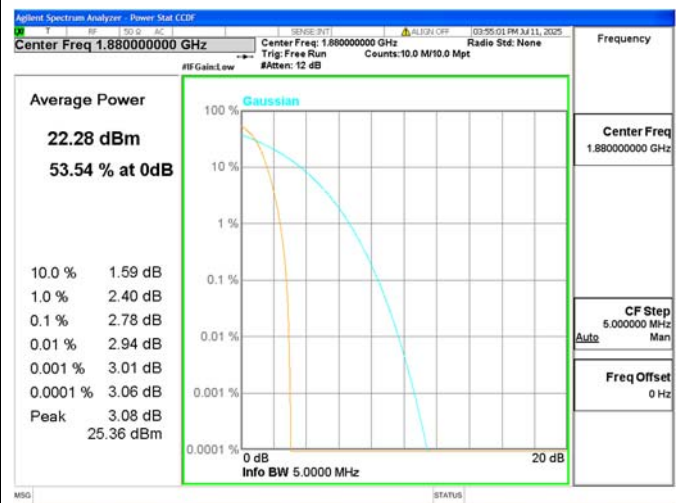




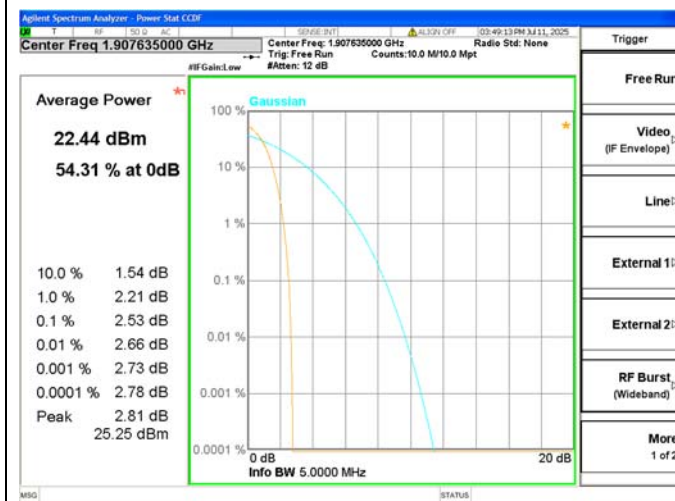
## WCDMA Band II, CH9262, 1852.4MHz



## WCDMA Band II, CH9400, 1880.0MHz



## WCDMA Band II, CH9538, 1907.6MHz



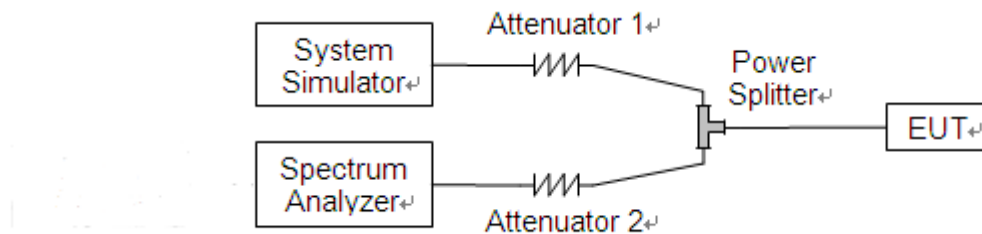
## 2.3. Occupied Bandwidth

### 2.3.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

### 2.3.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.



### 2.3.3.Test Result

| GSM850 |         |                 |                              |                      |
|--------|---------|-----------------|------------------------------|----------------------|
| Mode   | Channel | Frequency (MHz) | 99% Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) |
| GSM    | 128     | 824.2           | 248.96                       | 321.0                |
|        | 189     | 836.4           | 248.27                       | 313.4                |
|        | 251     | 848.8           | 250.82                       | 317.8                |
| EDGE   | 128     | 824.2           | 256.97                       | 308.7                |
|        | 189     | 836.4           | 243.67                       | 313.1                |
|        | 251     | 848.8           | 246.62                       | 309.6                |

| GSM1900 |         |                 |                              |                      |
|---------|---------|-----------------|------------------------------|----------------------|
| Mode    | Channel | Frequency (MHz) | 99% Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) |
| GSM     | 512     | 1850.2          | 242.29                       | 311.6                |
|         | 661     | 1880.0          | 246.15                       | 312.0                |
|         | 810     | 1909.8          | 243.84                       | 322.9                |
| EDGE    | 512     | 1850.2          | 254.77                       | 308.1                |
|         | 661     | 1880.0          | 256.74                       | 304.3                |
|         | 810     | 1909.8          | 247.40                       | 304.0                |

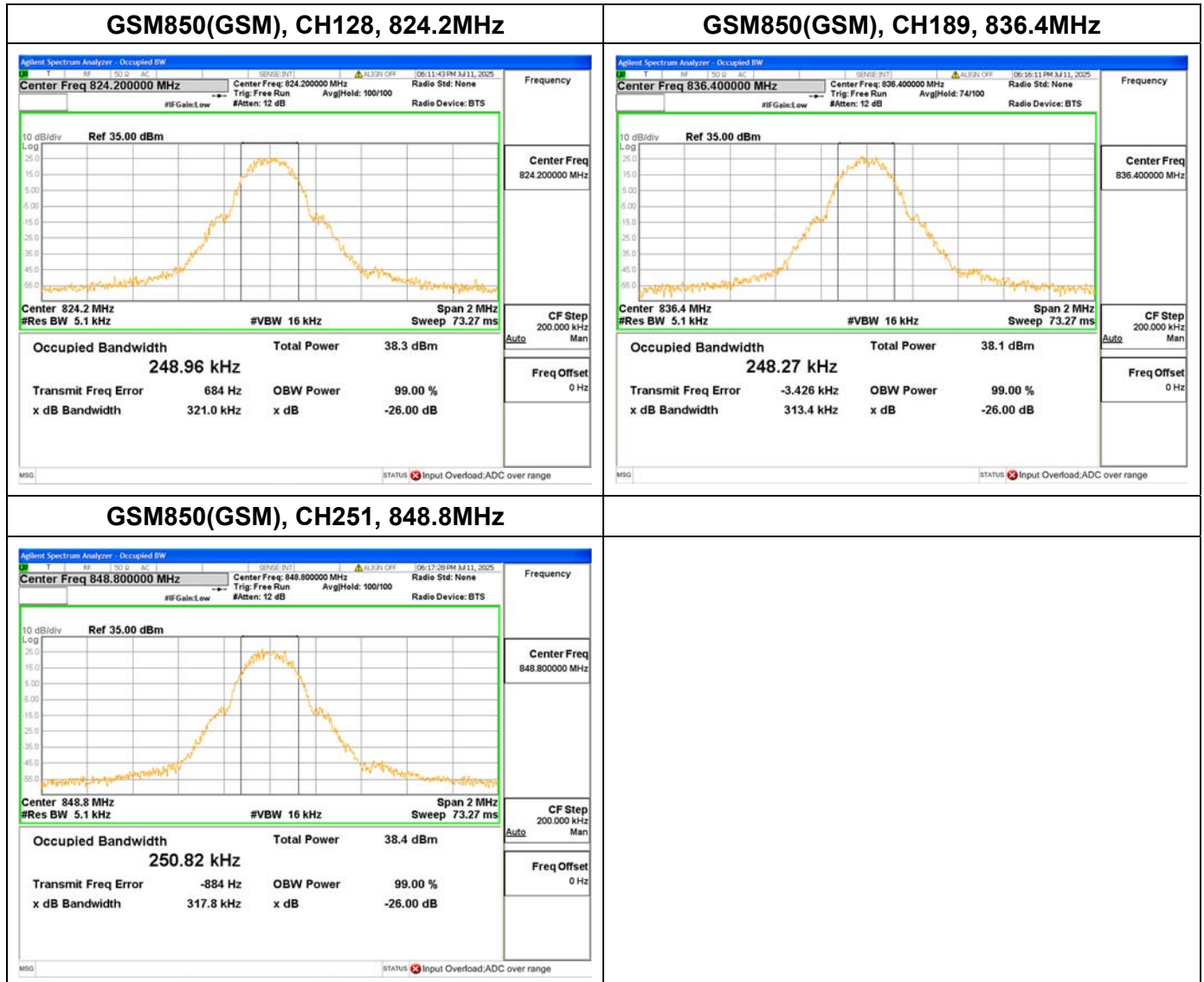
| WCDMA Band V |         |                 |                              |                      |
|--------------|---------|-----------------|------------------------------|----------------------|
| Mode         | Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
| WCDMA        | 4132    | 826.4           | 4.16                         | 4.69                 |
|              | 4182    | 836.4           | 4.16                         | 4.69                 |
|              | 4233    | 846.6           | 4.16                         | 4.70                 |

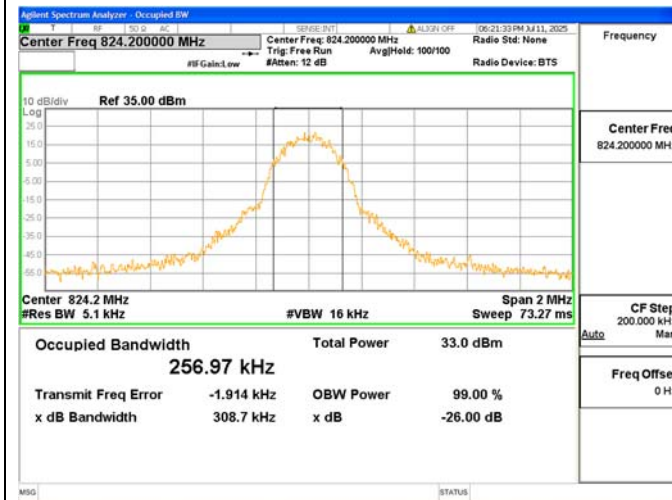
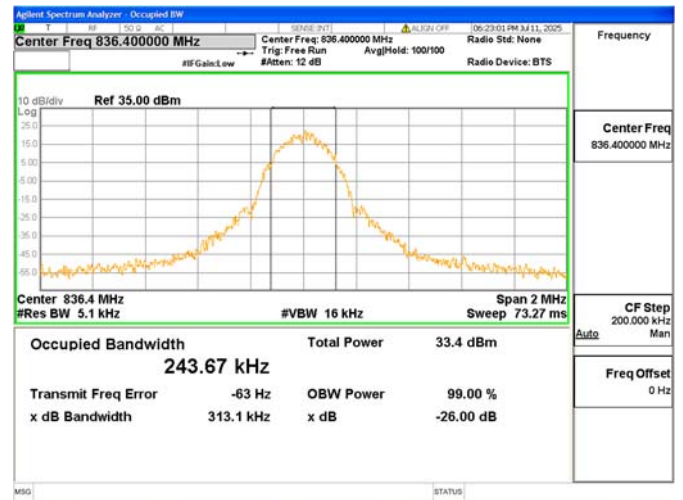
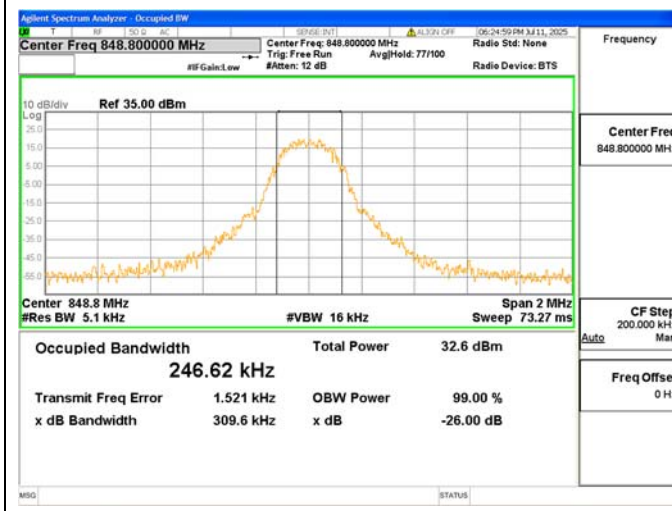
| WCDMA Band IV |         |                 |                              |                      |
|---------------|---------|-----------------|------------------------------|----------------------|
| Mode          | Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
| WCDMA         | 1312    | 1712.4          | 4.17                         | 4.72                 |
|               | 1413    | 1732.6          | 4.16                         | 4.69                 |
|               | 1513    | 1752.6          | 4.14                         | 4.68                 |

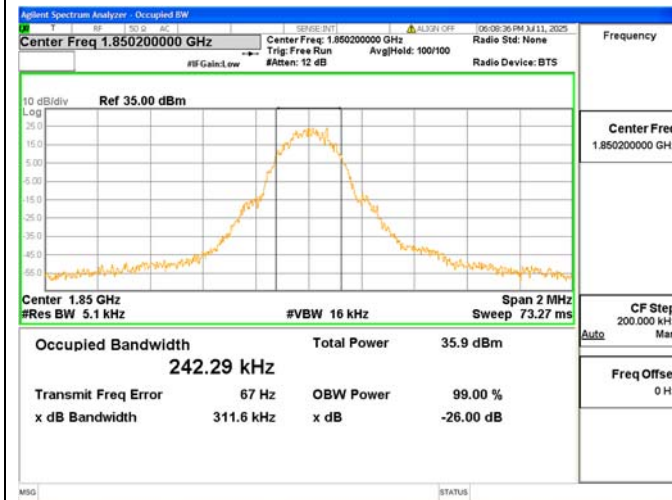
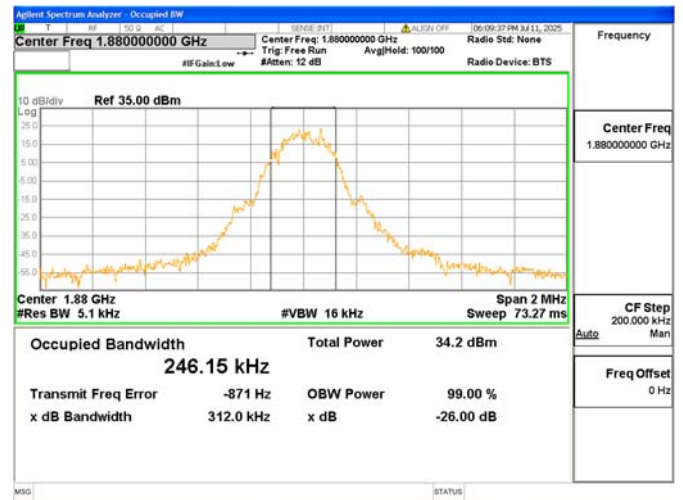
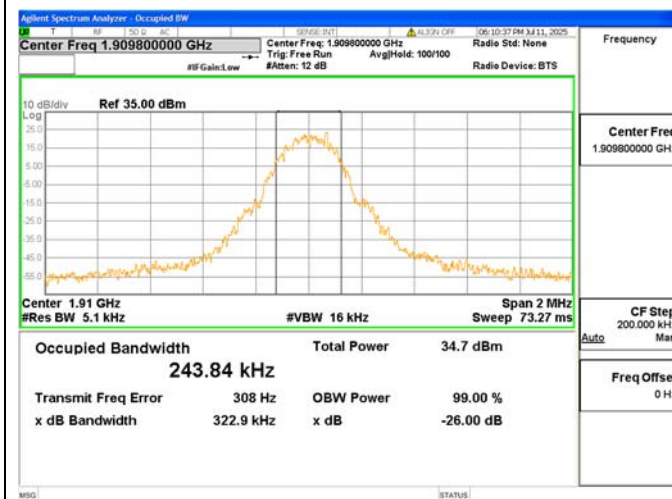




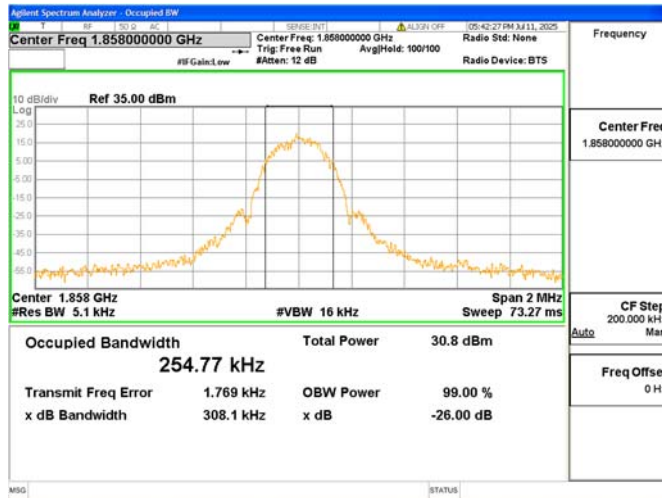
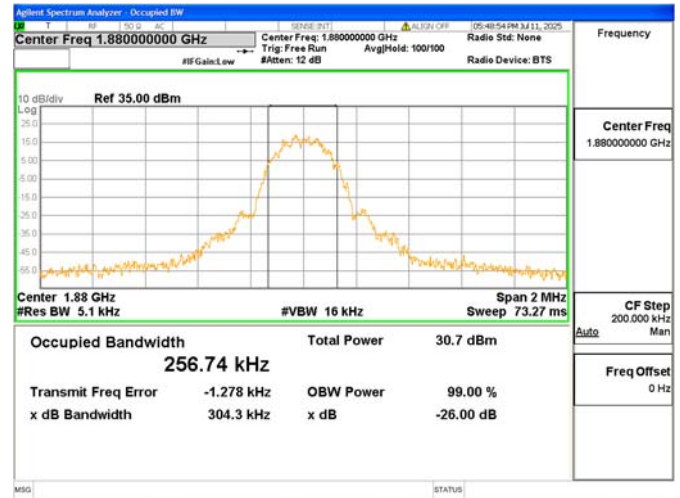
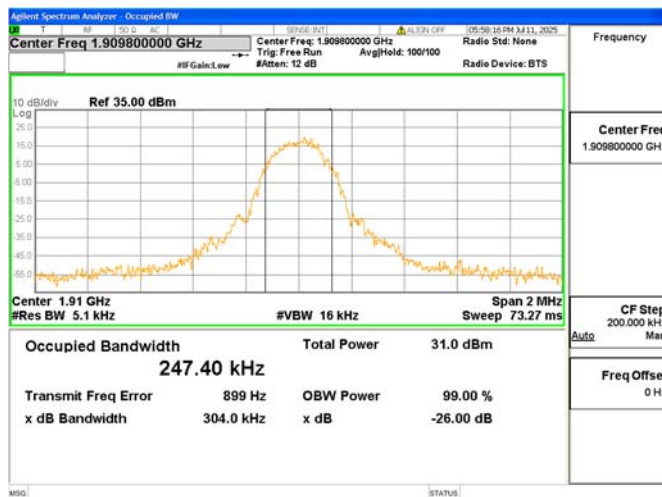
| WCDMA Band II |         |                 |                              |                      |
|---------------|---------|-----------------|------------------------------|----------------------|
| Mode          | Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
| WCDMA         | 9262    | 1852.4          | 4.16                         | 4.75                 |
|               | 9400    | 1880.0          | 4.18                         | 4.69                 |
|               | 9538    | 1907.6          | 4.17                         | 4.71                 |



**GSM850(EDGE), CH128, 824.2MHz****GSM850(EDGE), CH189, 836.4MHz****GSM850(EDGE), CH251, 848.8MHz**

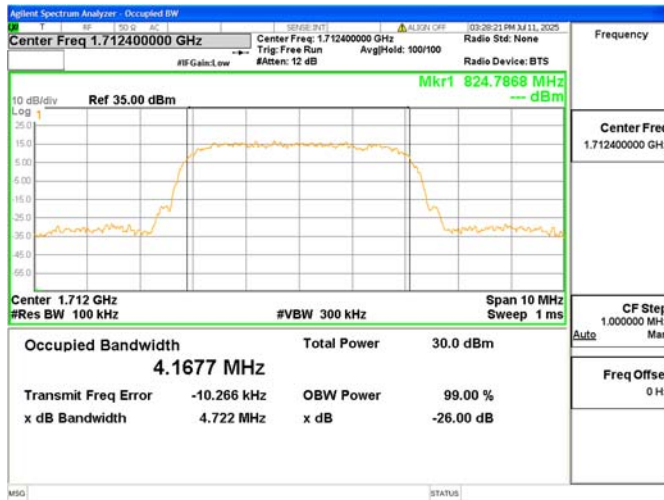
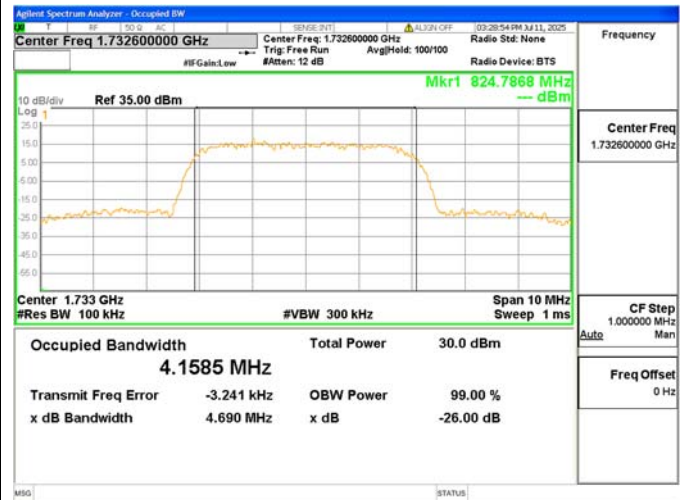
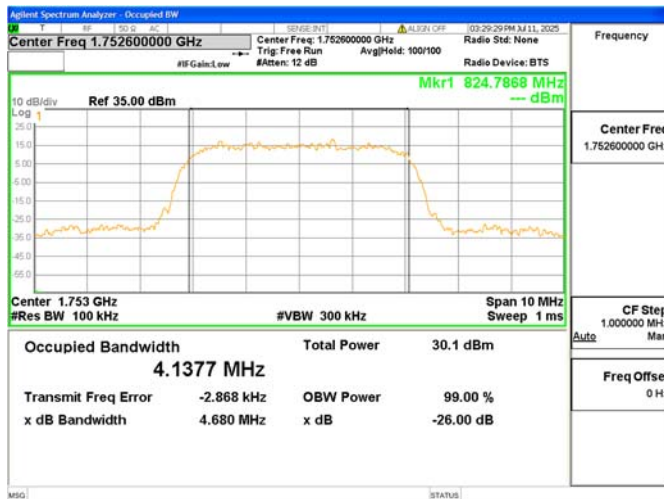
**GSM1900(GSM), CH512, 1850.2MHz****GSM1900(GSM), CH661, 1880.0MHz****GSM1900(GSM), CH810, 1909.8MHz**

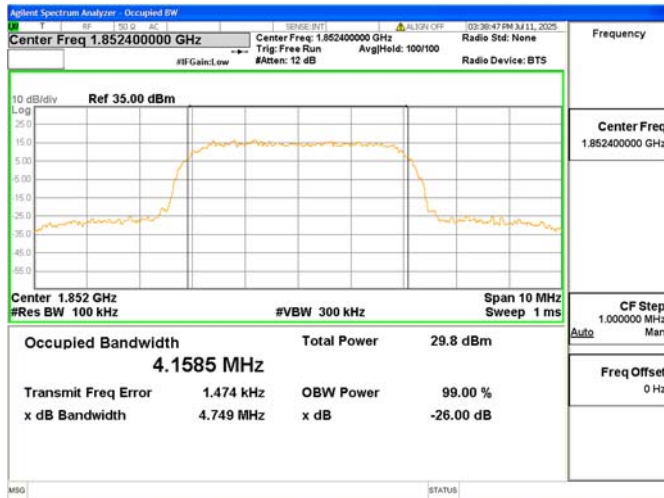
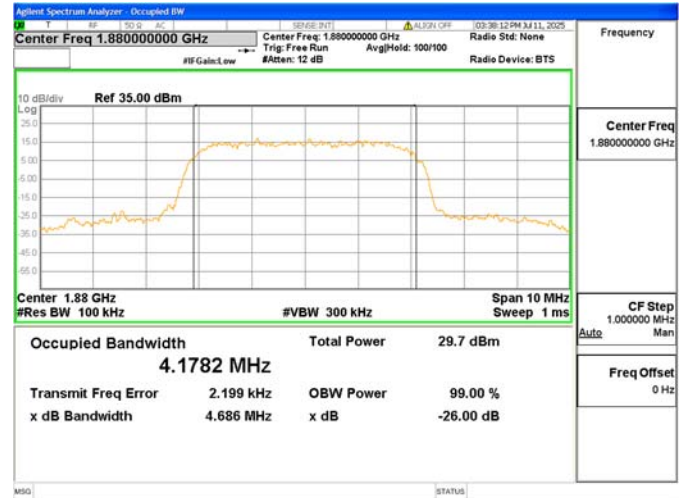


**GSM1900(EDGE), CH512, 1850.2MHz****GSM1900(EDGE), CH661, 1880.0MHz****GSM1900(EDGE), CH810, 1909.8MHz**

**WCDMA Band V, CH4132, 826.4MHz****WCDMA Band V, CH4182, 836.4MHz****WCDMA Band V, CH4233, 846.6MHz**



**WCDMA Band IV, CH1312, 1712.4MHz****WCDMA Band IV, CH1413, 1732.6MHz****WCDMA Band IV, CH1513, 1752.6MHz**

**WCDMA Band II, CH9262, 1852.4MHz****WCDMA Band II, CH9400, 1880.0MHz****WCDMA Band II, CH9538, 1907.6MHz**

## 2.4. Frequency Stability

### 2.4.1. Requirement

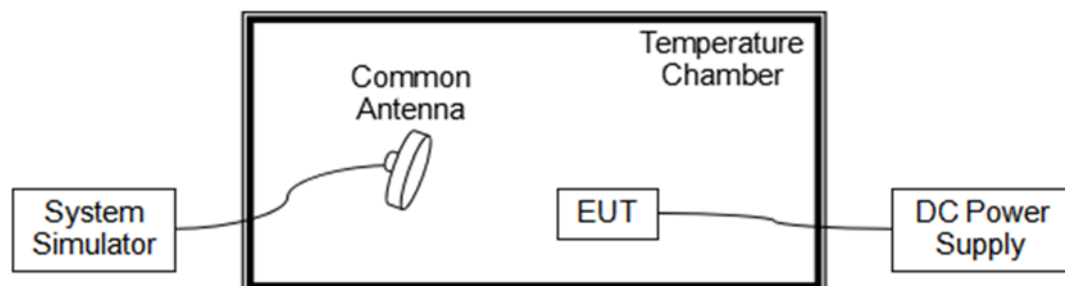
According to FCC section 22.355, 24.235 and 27.54 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  at intervals of not more than  $10^{\circ}\text{C}$ .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

**Note:** The operating temperature of EUT is from  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ , which are specified by the applicant.

### 2.4.2. Test Description

Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS via a Common Antenna.





### 2.4.3. Test Result

The nominal, highest and lowest extreme voltages are separately 3.87V, 4.45V and 3.40V, which are specified by the applicant; the normal temperature here used is 20°C.

| GSM850(GSM), CH189, 836.4MHz |             |           |                |                 |        |
|------------------------------|-------------|-----------|----------------|-----------------|--------|
| Limit =±2.5ppm               |             |           |                |                 |        |
| Voltage (%)                  | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                       | 3.87        | +20(Ref)  | -20            | -0.024          | PASS   |
| Normal                       |             | -20       | -7             | -0.008          |        |
| Normal                       |             | -10       | 13             | 0.016           |        |
| Normal                       |             | 0         | 18             | 0.022           |        |
| Normal                       |             | +10       | 19             | 0.023           |        |
| Normal                       |             | +20       | 16             | 0.019           |        |
| Normal                       |             | +30       | 14             | 0.017           |        |
| Normal                       |             | +40       | -22            | -0.026          |        |
| Normal                       |             | +50       | 7              | 0.008           |        |
| Normal                       |             | +60       | 17             | 0.020           |        |
| High                         | 4.45        | +20       | -6             | -0.007          |        |
| BATT.ENDPOINT                | 3.40        | +20       | 13             | 0.016           |        |

| GSM850(EDGE), CH189, 836.4MHz |             |           |                |                 |        |
|-------------------------------|-------------|-----------|----------------|-----------------|--------|
| Limit =±2.5ppm                |             |           |                |                 |        |
| Voltage (%)                   | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                        | 3.87        | +20(Ref)  | -4             | -0.005          | PASS   |
| Normal                        |             | -20       | 17             | 0.020           |        |
| Normal                        |             | -10       | 3              | 0.004           |        |
| Normal                        |             | 0         | 20             | 0.024           |        |
| Normal                        |             | +10       | 12             | 0.014           |        |
| Normal                        |             | +20       | 14             | 0.017           |        |
| Normal                        |             | +30       | 10             | 0.012           |        |
| Normal                        |             | +40       | 18             | 0.022           |        |
| Normal                        |             | +50       | 18             | 0.022           |        |
| Normal                        |             | +60       | -2             | -0.002          |        |
| High                          | 4.45        | +20       | 19             | 0.023           |        |
| BATT.ENDPOINT                 | 3.40        | +20       | -15            | -0.018          |        |





| GSM1900(GSM), CH661, 1880.0MHz |             |           |                |                 |        |
|--------------------------------|-------------|-----------|----------------|-----------------|--------|
| Limit =Within Authorized Band  |             |           |                |                 |        |
| Voltage (%)                    | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                         | 3.87        | +20(Ref)  | -13            | -0.007          | PASS   |
| Normal                         |             | -20       | 21             | <b>0.011</b>    |        |
| Normal                         |             | -10       | -10            | -0.005          |        |
| Normal                         |             | 0         | 17             | 0.009           |        |
| Normal                         |             | +10       | -18            | -0.010          |        |
| Normal                         |             | +20       | -14            | -0.007          |        |
| Normal                         |             | +30       | -12            | -0.006          |        |
| Normal                         |             | +40       | 19             | 0.010           |        |
| Normal                         |             | +50       | -9             | -0.005          |        |
| Normal                         |             | +60       | 20             | 0.011           |        |
| High                           | 4.45        | +20       | 8              | 0.004           |        |
| BATT.ENDPOINT                  | 3.40        | +20       | 18             | 0.010           |        |

| GSM1900(EDGE), CH661, 1880.0MHz |             |           |                |                 |        |
|---------------------------------|-------------|-----------|----------------|-----------------|--------|
| Limit =Within Authorized Band   |             |           |                |                 |        |
| Voltage (%)                     | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                          | 3.87        | +20(Ref)  | -16            | -0.009          | PASS   |
| Normal                          |             | -20       | -13            | -0.007          |        |
| Normal                          |             | -10       | 19             | 0.010           |        |
| Normal                          |             | 0         | 19             | 0.010           |        |
| Normal                          |             | +10       | 1              | 0.001           |        |
| Normal                          |             | +20       | 18             | 0.010           |        |
| Normal                          |             | +30       | 17             | 0.009           |        |
| Normal                          |             | +40       | -19            | -0.010          |        |
| Normal                          |             | +50       | 19             | 0.010           |        |
| Normal                          |             | +60       | -21            | -0.011          |        |
| High                            | 4.45        | +20       | 18             | 0.010           |        |
| BATT.ENDPOINT                   | 3.40        | +20       | 16             | 0.009           |        |





| WCDMA Band V, CH4182, 836.4MHz<br>Limit =±2.5ppm |             |           |                |                 |        |
|--------------------------------------------------|-------------|-----------|----------------|-----------------|--------|
| Voltage (%)                                      | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                           | 3.87        | +20(Ref)  | 19             | 0.023           | PASS   |
| Normal                                           |             | -20       | 18             | 0.022           |        |
| Normal                                           |             | -10       | 21             | <b>0.025</b>    |        |
| Normal                                           |             | 0         | 11             | 0.013           |        |
| Normal                                           |             | +10       | 17             | 0.020           |        |
| Normal                                           |             | +20       | 19             | 0.023           |        |
| Normal                                           |             | +30       | 18             | 0.022           |        |
| Normal                                           |             | +40       | 20             | 0.024           |        |
| Normal                                           |             | +50       | 19             | 0.023           |        |
| Normal                                           |             | +60       | 11             | 0.013           |        |
| High                                             | 4.45        | +20       | 14             | 0.017           |        |
| BATT.ENDPOINT                                    | 3.40        | +20       | 19             | 0.023           |        |

| WCDMA Band IV, CH1413, 1732.6MHz<br>Limit =Within Authorized Band |             |           |                |                 |        |
|-------------------------------------------------------------------|-------------|-----------|----------------|-----------------|--------|
| Voltage (%)                                                       | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                                            | 3.87        | +20(Ref)  | 11             | 0.006           | PASS   |
| Normal                                                            |             | -20       | 20             | 0.011           |        |
| Normal                                                            |             | -10       | 18             | 0.010           |        |
| Normal                                                            |             | 0         | 13             | 0.007           |        |
| Normal                                                            |             | +10       | 15             | 0.008           |        |
| Normal                                                            |             | +20       | -1             | -0.001          |        |
| Normal                                                            |             | +30       | 14             | 0.007           |        |
| Normal                                                            |             | +40       | 3              | 0.002           |        |
| Normal                                                            |             | +50       | 16             | 0.009           |        |
| Normal                                                            |             | +60       | 22             | <b>0.012</b>    |        |
| High                                                              | 4.45        | +20       | 18             | 0.010           |        |
| BATT.ENDPOINT                                                     | 3.40        | +20       | -5             | -0.003          |        |





| WCDMA Band II, CH9400, 1880.0MHz |             |           |                |                 |        |
|----------------------------------|-------------|-----------|----------------|-----------------|--------|
| Limit =Within Authorized Band    |             |           |                |                 |        |
| Voltage (%)                      | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                           | 3.87        | +20(Ref)  | 11             | 0.006           | PASS   |
| Normal                           |             | -20       | 20             | 0.011           |        |
| Normal                           |             | -10       | 18             | 0.010           |        |
| Normal                           |             | 0         | 13             | 0.007           |        |
| Normal                           |             | +10       | 15             | 0.008           |        |
| Normal                           |             | +20       | -1             | -0.001          |        |
| Normal                           |             | +30       | 14             | 0.007           |        |
| Normal                           |             | +40       | 3              | 0.002           |        |
| Normal                           |             | +50       | 16             | 0.009           |        |
| Normal                           |             | +60       | 22             | 0.012           |        |
| High                             | 4.45        | +20       | 18             | 0.010           | PASS   |
| BATT.ENDPOINT                    | 3.40        | +20       | -5             | -0.003          |        |





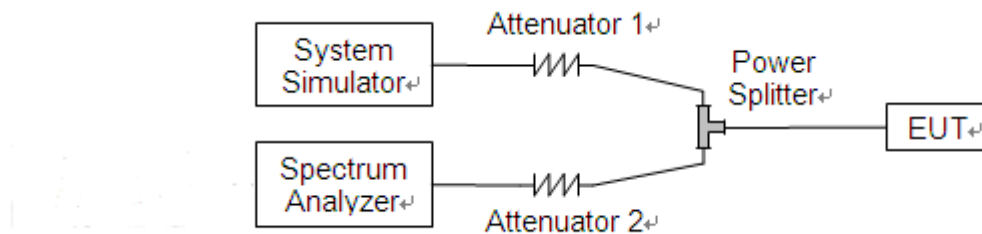
## 2.5. Conducted Out of Band Emissions

### 2.5.1. Requirement

According to FCC section 22.917(a), 24.238(a) and 27.53(h) 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  $43 + 10 \cdot \log(P)$  dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10<sup>th</sup> harmonic of the fundamental frequency.

### 2.5.2. Test Description

Test Setup:



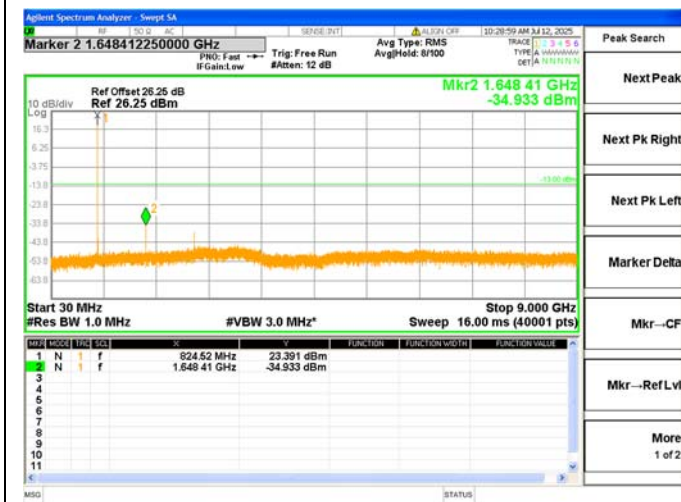
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.





## 2.5.3. Test Result

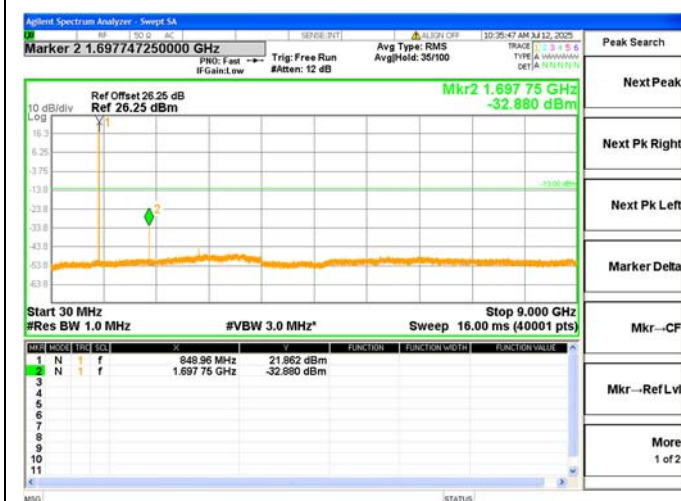
## GSM850(GSM), CH128, 824.2MHz



## GSM850(GSM), CH189, 836.4MHz

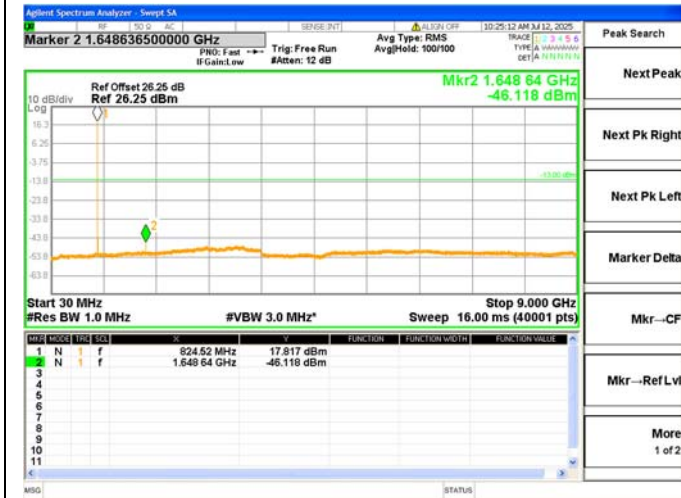


## GSM850(GSM), CH251, 848.8MHz

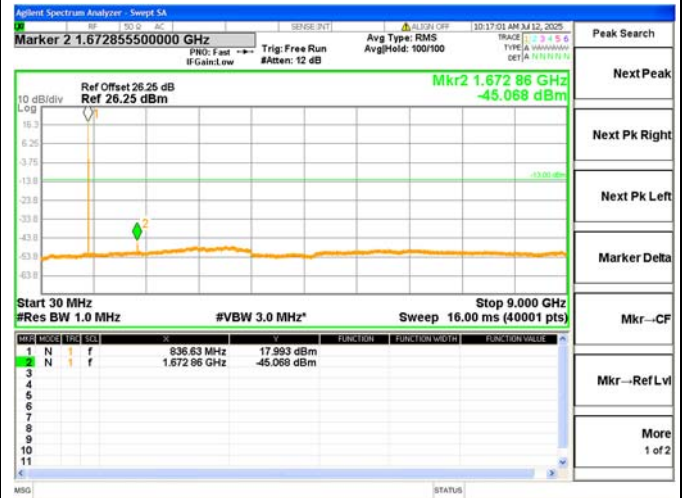




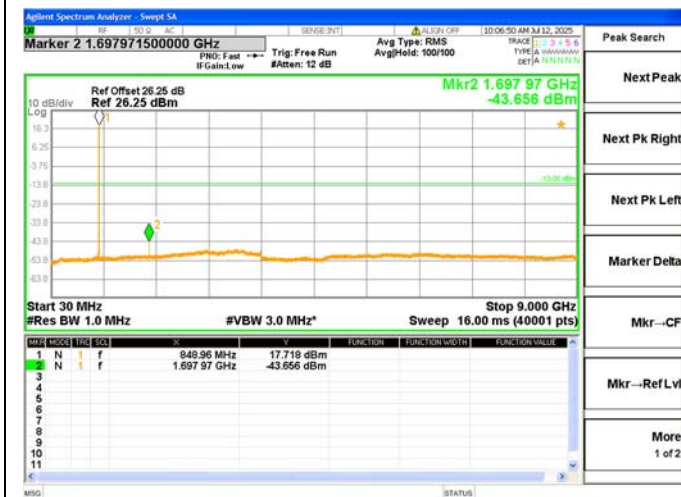
## GSM850(EDGE), CH128, 824.2MHz



## GSM850(EDGE), CH189, 836.4MHz

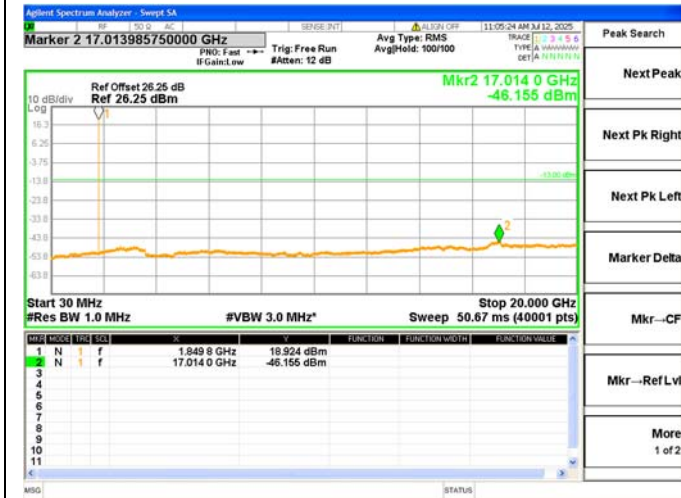


## GSM850(EDGE), CH251, 848.8MHz





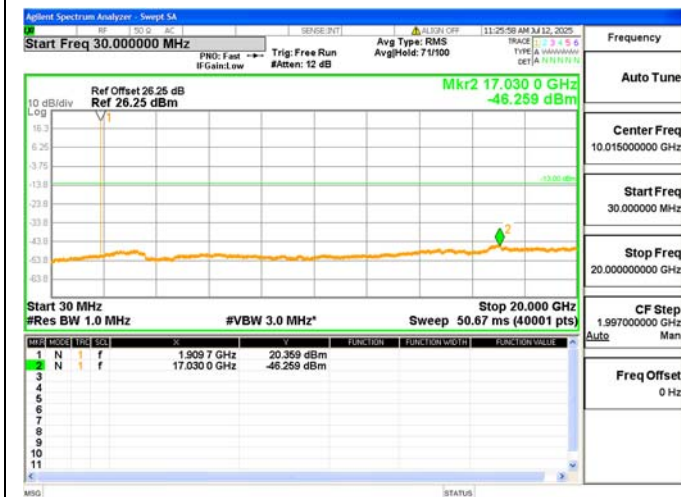
## GSM1900(GSM), CH512, 1850.2MHz



## GSM1900(GSM), CH661, 1880.0MHz

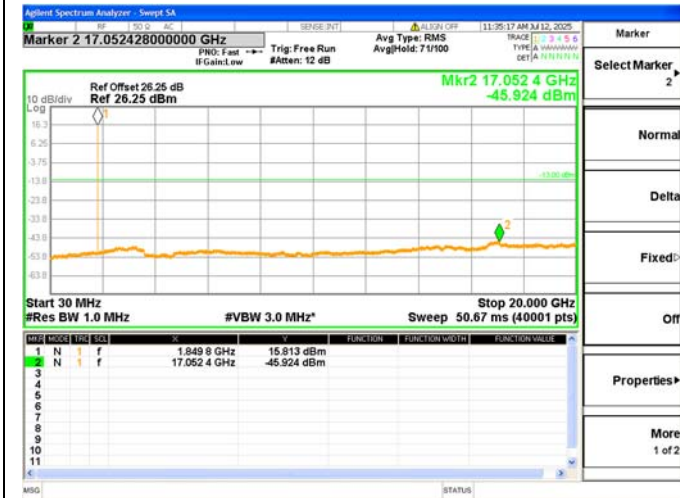


## GSM1900(GSM), CH810, 1909.8MHz

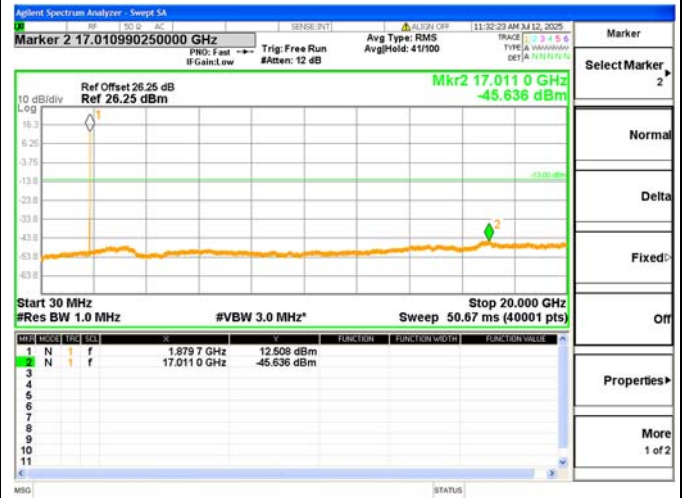




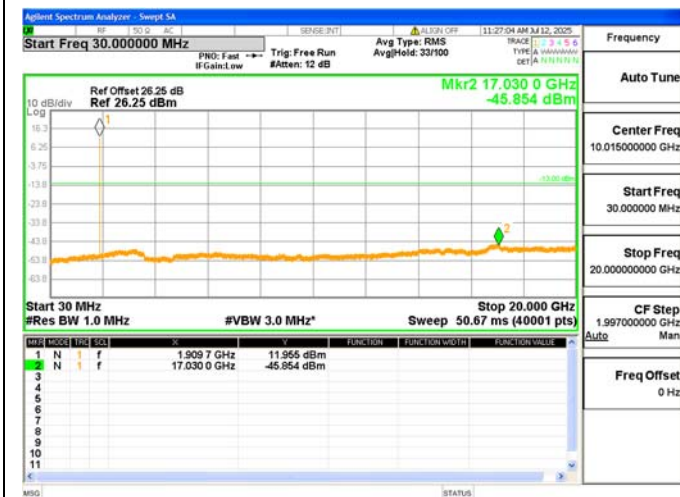
## GSM1900(EDGE), CH512, 1850.2MHz



## GSM1900(EDGE), CH661, 1880.0MHz



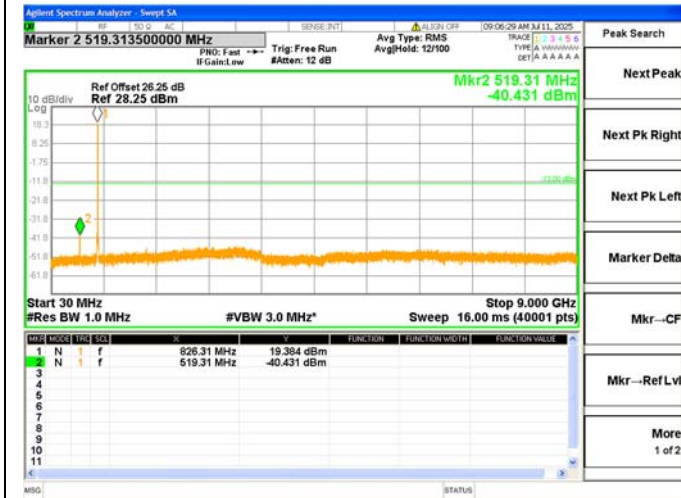
## GSM1900(EDGE), CH810, 1909.8MHz



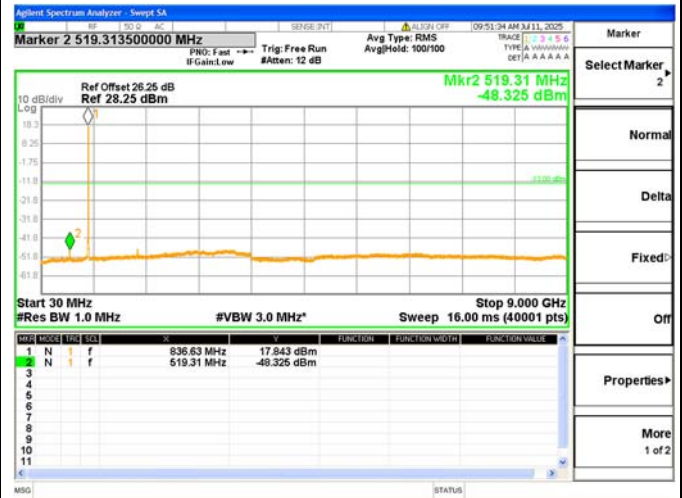




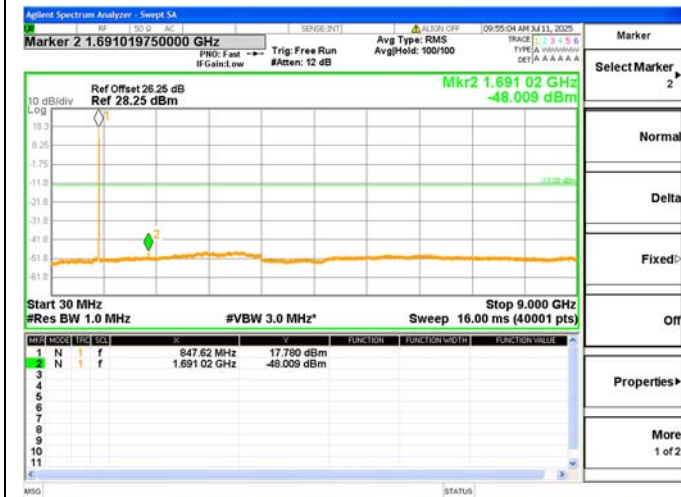
## WCDMA Band V, CH4132, 826.4MHz



## WCDMA Band V, CH4182, 836.4MHz

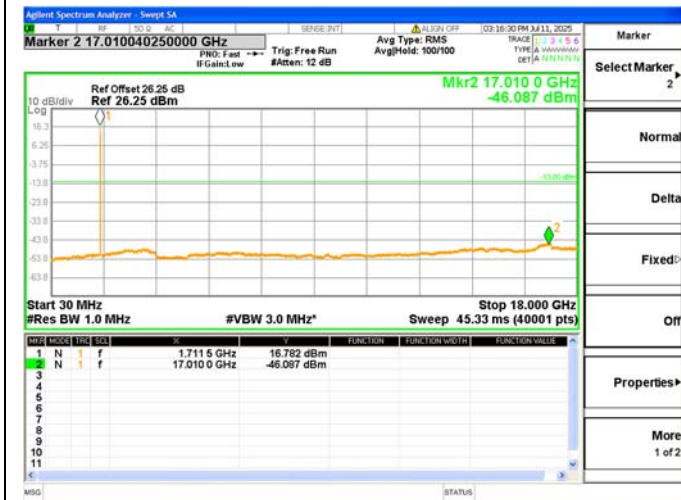


## WCDMA Band V, CH4233, 846.6MHz





## WCDMA Band IV, CH1312, 1712.4MHz



## WCDMA Band IV, CH1413, 1732.6MHz

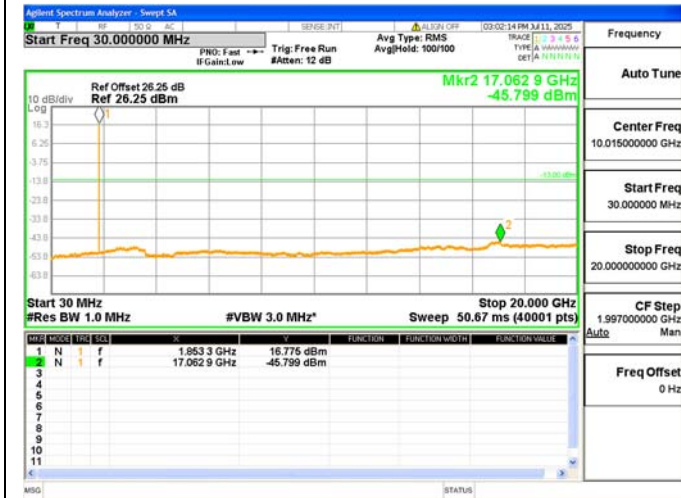


## WCDMA Band IV, CH1513, 1752.6MHz





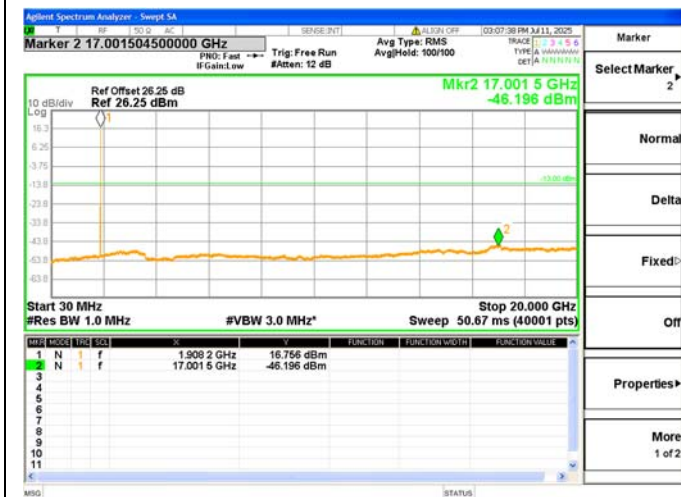
## WCDMA Band II, CH9262, 1852.4MHz



## WCDMA Band II, CH9400, 1880.0MHz



## WCDMA Band II, CH9538, 1907.6MHz





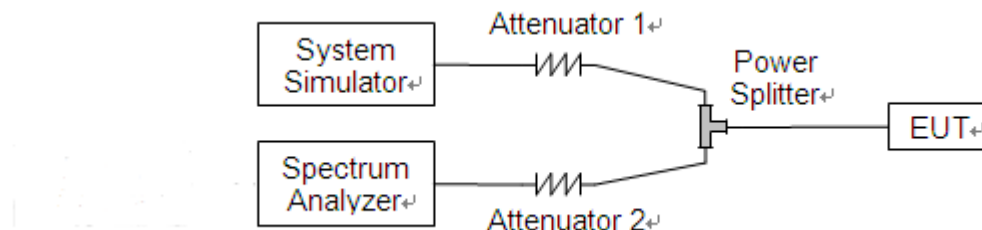
## 2.6. Band Edge

### 2.6.1. Requirement

According to FCC section 22.917(a), 24.238(a) and 27.53(h) 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  $43 + 10 \cdot \log(P)$  dB.

### 2.6.2. Test Description

Test Setup:



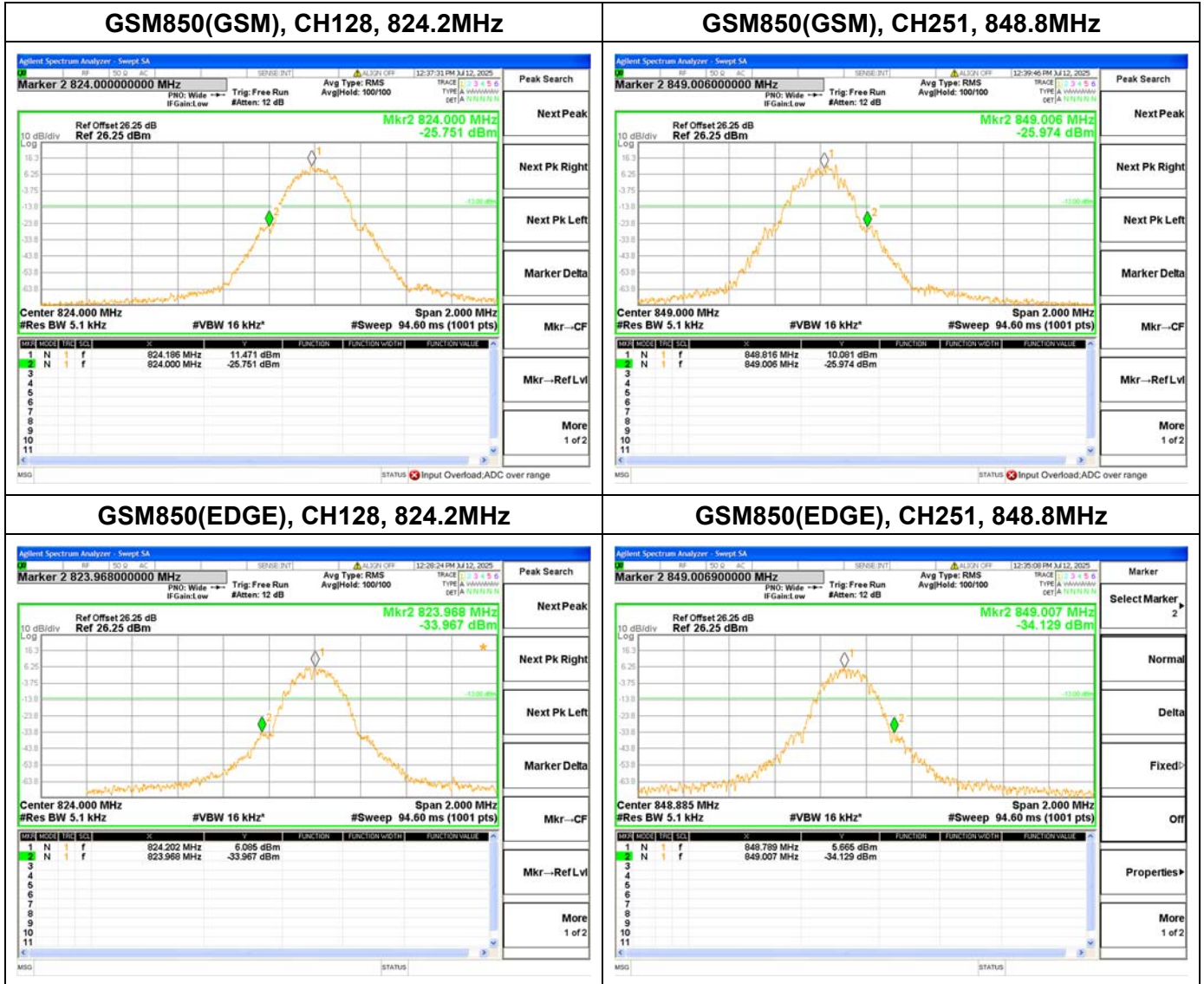
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.





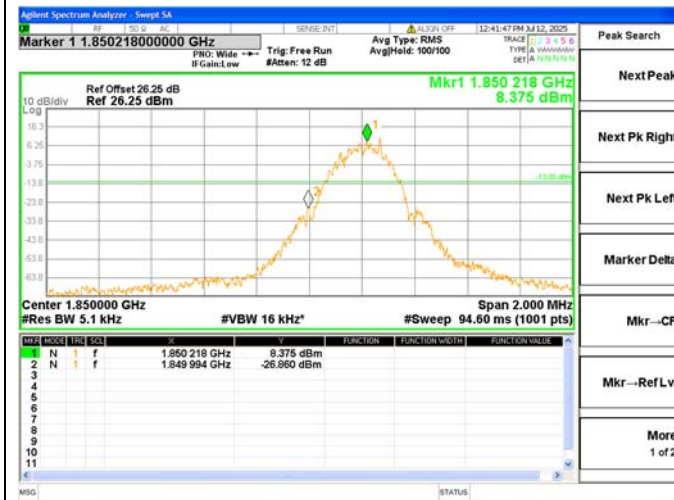
### 2.6.3. Test Result

The lowest and highest channels are tested to verify the band edge emissions.

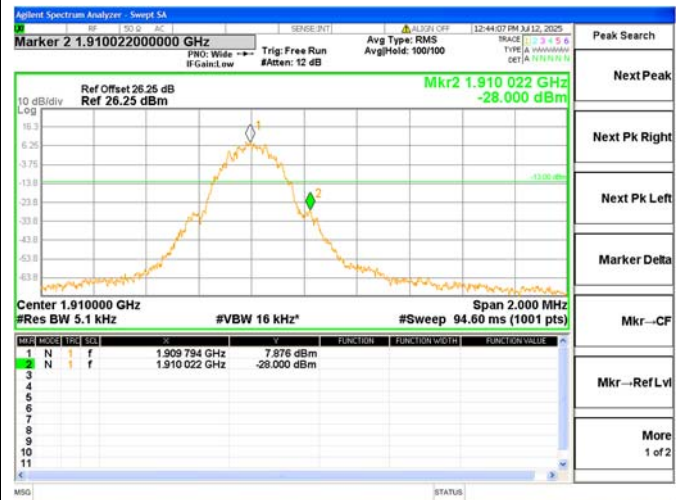




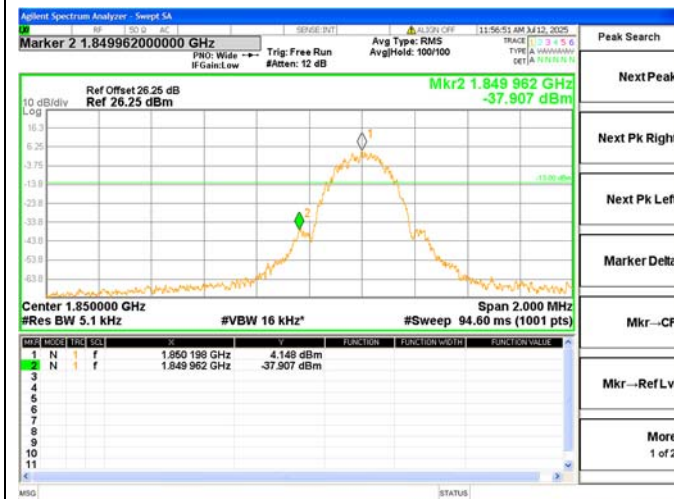
## GSM1900(GSM), CH512, 1850.2MHz



## GSM1900(GSM), CH810, 1909.8MHz



## GSM1900(EDGE), CH512, 1850.2MHz

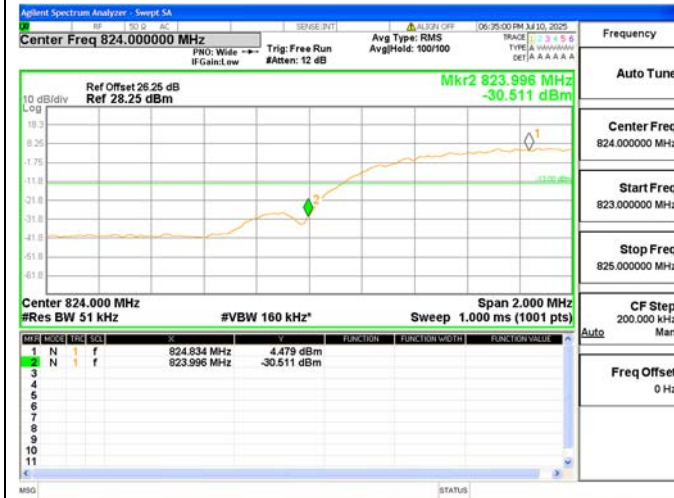


## GSM1900(EDGE), CH810, 1909.8MHz





## WCDMA Band V, CH4132, 826.4MHz



## WCDMA Band V, CH4233, 846.6MHz



## WCDMA Band IV, CH1312, 1712.4MHz



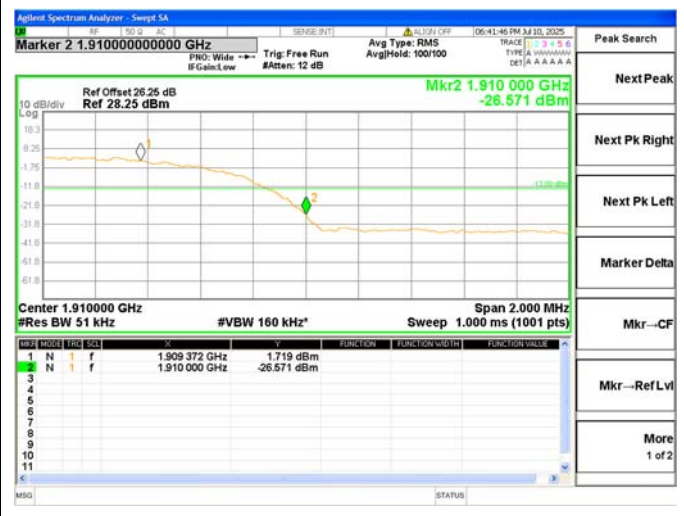
## WCDMA Band IV, CH1513, 1752.6MHz



## WCDMA Band II, CH9262, 1852.4MHz



## WCDMA Band II, CH9538, 1907.6MHz





## 2.7. Determining E.R.P. and/or E.I.R.P. from conducted RF output power measurements

### 2.7.1. Requirement

According to FCC section 22.913, the Effective Radiated Power (E.R.P.) of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

According to FCC section 27.50, mobile, and portable (hand-held) stations is limited to 1 Watts e.i.r.p. peak power.

### 2.7.2. Test Description

The test setups refer to section 2.1.3

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM850MHz band Power Control Level (PCL) = 5/19 and Power Class = 4, GSM1900MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded. Please refer to section 2.1.3 of this report.

The relevant equation for determining the maximum E.R.P. or E.I.R.P. from the measured RF output power is given in Equation (1) as follows:

$$\text{E.R.P. or E.I.R.P.} = P_{\text{Meas}} + G_{\text{T}}$$

Where:

E.R.P. or E.I.R.P. effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as  $P_{\text{Meas}}$ , e.g., dBm or dBW)

$P_{\text{Meas}}$  measured transmitter output power or PSD, in dBm or dBW

$G_{\text{T}}$  gain of the transmitting antenna, in dBd (E.R.P.) or dBi (E.I.R.P.)

For devices utilizing multiple antennas, see ANSI C63.25-2015 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between E.R.P. and E.I.R.P.:

a) E.R.P. = E.I.R.P. - 2.15, where E.R.P. and E.I.R.P. are expressed in consistent units.

b) E.I.R.P. = E.R.P. + 2.15, where E.R.P. and E.I.R.P. are expressed in consistent units.





## 2.7.3.Test Result

| GSM850                                                                                                              |         |                 |     |                 |       |       |   |         |
|---------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|-----------------|-------|-------|---|---------|
| Band                                                                                                                | Channel | Frequency (MHz) | PCL | Measured E.R.P. |       | Limit |   | Verdict |
|                                                                                                                     |         |                 |     | dBm             | W     | dBm   | W |         |
| GSM                                                                                                                 | 128     | 824.20          | 5   | 27.06           | 0.508 | 38.5  | 7 | PASS    |
|                                                                                                                     | 189     | 836.40          | 5   | 27.09           | 0.512 |       |   | PASS    |
|                                                                                                                     | 251     | 848.80          | 5   | 27.12           | 0.515 |       |   | PASS    |
| GPRS                                                                                                                | 128     | 824.20          | 5   | 27.08           | 0.511 | 38.5  | 7 | PASS    |
|                                                                                                                     | 189     | 836.40          | 5   | 27.10           | 0.513 |       |   | PASS    |
|                                                                                                                     | 251     | 848.80          | 5   | 27.07           | 0.509 |       |   | PASS    |
| EDGE                                                                                                                | 128     | 824.20          | 5   | 21.40           | 0.138 | 38.5  | 7 | PASS    |
|                                                                                                                     | 189     | 836.40          | 5   | 21.38           | 0.137 |       |   | PASS    |
|                                                                                                                     | 251     | 848.80          | 5   | 21.60           | 0.145 |       |   | PASS    |
| Note 1: For the GPRS and EDGE mode, all the slots were tested and just the worst data were recorded in this report. |         |                 |     |                 |       |       |   |         |

| GSM1900                                                                                                             |         |                 |     |                   |       |       |   |         |
|---------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|-------------------|-------|-------|---|---------|
| Band                                                                                                                | Channel | Frequency (MHz) | PCL | Measured E.I.R.P. |       | Limit |   | Verdict |
|                                                                                                                     |         |                 |     | dBm               | W     | dBm   | W |         |
| GSM                                                                                                                 | 512     | 1850.2          | 0   | 28.65             | 0.733 | 33    | 2 | PASS    |
|                                                                                                                     | 661     | 1880.0          | 0   | 28.49             | 0.706 |       |   | PASS    |
|                                                                                                                     | 810     | 1909.8          | 0   | 28.71             | 0.743 |       |   | PASS    |
| GPRS                                                                                                                | 512     | 1850.2          | 0   | 28.64             | 0.731 | 33    | 2 | PASS    |
|                                                                                                                     | 661     | 1880.0          | 0   | 28.52             | 0.711 |       |   | PASS    |
|                                                                                                                     | 810     | 1909.8          | 0   | 28.66             | 0.735 |       |   | PASS    |
| EDGE                                                                                                                | 512     | 1850.2          | 0   | 24.82             | 0.303 | 33    | 2 | PASS    |
|                                                                                                                     | 661     | 1880.0          | 0   | 24.88             | 0.308 |       |   | PASS    |
|                                                                                                                     | 810     | 1909.8          | 0   | 24.96             | 0.313 |       |   | PASS    |
| Note 1: For the GPRS and EDGE mode, all the slots were tested and just the worst data were recorded in this report. |         |                 |     |                   |       |       |   |         |





| WCDMA Band V                                                                                                             |         |                    |                 |       |       |   |         |
|--------------------------------------------------------------------------------------------------------------------------|---------|--------------------|-----------------|-------|-------|---|---------|
| Band                                                                                                                     | Channel | Frequency<br>(MHz) | Measured E.R.P. |       | Limit |   | Verdict |
|                                                                                                                          |         |                    | dBm             | W     | dBm   | W |         |
| WCDMA                                                                                                                    | 4132    | 826.4              | 17.42           | 0.055 | 38.5  | 7 | PASS    |
|                                                                                                                          | 4182    | 836.4              | 17.52           | 0.056 |       |   | PASS    |
|                                                                                                                          | 4233    | 846.6              | 17.46           | 0.056 |       |   | PASS    |
| HSDPA                                                                                                                    | 4132    | 826.4              | 16.57           | 0.045 | 38.5  | 7 | PASS    |
|                                                                                                                          | 4182    | 836.4              | 16.54           | 0.045 |       |   | PASS    |
|                                                                                                                          | 4233    | 846.6              | 16.53           | 0.045 |       |   | PASS    |
| DC-<br>HSDPA                                                                                                             | 4132    | 826.4              | 16.62           | 0.046 | 38.5  | 7 | PASS    |
|                                                                                                                          | 4182    | 836.4              | 16.58           | 0.045 |       |   | PASS    |
|                                                                                                                          | 4233    | 846.6              | 16.59           | 0.046 |       |   | PASS    |
| HSUPA                                                                                                                    | 4132    | 826.4              | 16.38           | 0.043 | 38.5  | 7 | PASS    |
|                                                                                                                          | 4182    | 836.4              | 16.37           | 0.043 |       |   | PASS    |
|                                                                                                                          | 4233    | 846.6              | 16.36           | 0.043 |       |   | PASS    |
| HSPA+                                                                                                                    | 4132    | 826.4              | 15.23           | 0.033 | 38.5  | 7 | PASS    |
|                                                                                                                          | 4182    | 836.4              | 15.22           | 0.033 |       |   | PASS    |
|                                                                                                                          | 4233    | 846.6              | 14.78           | 0.030 |       |   | PASS    |
| Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report. |         |                    |                 |       |       |   |         |







| WCDMA Band IV                                                                                                            |         |                    |                   |       |       |   |         |
|--------------------------------------------------------------------------------------------------------------------------|---------|--------------------|-------------------|-------|-------|---|---------|
| Band                                                                                                                     | Channel | Frequency<br>(MHz) | Measured E.I.R.P. |       | Limit |   | Verdict |
|                                                                                                                          |         |                    | dBm               | W     | dBm   | W |         |
| WCDMA                                                                                                                    | 1312    | 1712.4             | 21.59             | 0.144 | 30    | 1 | PASS    |
|                                                                                                                          | 1413    | 1732.6             | 21.63             | 0.146 |       |   | PASS    |
|                                                                                                                          | 1513    | 1752.6             | 21.60             | 0.145 |       |   | PASS    |
| HSDPA                                                                                                                    | 1312    | 1712.4             | 20.58             | 0.114 | 30    | 1 | PASS    |
|                                                                                                                          | 1413    | 1732.6             | 20.50             | 0.112 |       |   | PASS    |
|                                                                                                                          | 1513    | 1752.6             | 20.52             | 0.113 |       |   | PASS    |
| DC-<br>HSDPA                                                                                                             | 1312    | 1712.4             | 20.43             | 0.110 | 30    | 1 | PASS    |
|                                                                                                                          | 1413    | 1732.6             | 20.32             | 0.108 |       |   | PASS    |
|                                                                                                                          | 1513    | 1752.6             | 20.37             | 0.109 |       |   | PASS    |
| HSUPA                                                                                                                    | 1312    | 1712.4             | 20.40             | 0.110 | 30    | 1 | PASS    |
|                                                                                                                          | 1413    | 1732.6             | 20.32             | 0.108 |       |   | PASS    |
|                                                                                                                          | 1513    | 1752.6             | 20.33             | 0.108 |       |   | PASS    |
| HSPA+                                                                                                                    | 1312    | 1712.4             | 19.33             | 0.086 | 30    | 1 | PASS    |
|                                                                                                                          | 1413    | 1732.6             | 19.36             | 0.086 |       |   | PASS    |
|                                                                                                                          | 1513    | 1752.6             | 19.34             | 0.086 |       |   | PASS    |
| Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report. |         |                    |                   |       |       |   |         |





| WCDMA Band II                                                                                                            |         |                 |                   |       |       |   |         |
|--------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-------------------|-------|-------|---|---------|
| Band                                                                                                                     | Channel | Frequency (MHz) | Measured E.I.R.P. |       | Limit |   | Verdict |
|                                                                                                                          |         |                 | dBm               | W     | dBm   | W |         |
| WCDMA                                                                                                                    | 9262    | 1852.4          | 21.62             | 0.145 | 33    | 2 | PASS    |
|                                                                                                                          | 9400    | 1880.0          | 21.72             | 0.149 |       |   | PASS    |
|                                                                                                                          | 9538    | 1907.6          | 21.67             | 0.147 |       |   | PASS    |
| HSDPA                                                                                                                    | 9262    | 1852.4          | 20.76             | 0.119 | 33    | 2 | PASS    |
|                                                                                                                          | 9400    | 1880.0          | 20.80             | 0.120 |       |   | PASS    |
|                                                                                                                          | 9538    | 1907.6          | 20.82             | 0.121 |       |   | PASS    |
| DC-HSDPA                                                                                                                 | 9262    | 1852.4          | 20.65             | 0.116 | 33    | 2 | PASS    |
|                                                                                                                          | 9400    | 1880.0          | 20.57             | 0.114 |       |   | PASS    |
|                                                                                                                          | 9538    | 1907.6          | 20.66             | 0.116 |       |   | PASS    |
| HSUPA                                                                                                                    | 9262    | 1852.4          | 20.65             | 0.116 | 33    | 2 | PASS    |
|                                                                                                                          | 9400    | 1880.0          | 20.62             | 0.115 |       |   | PASS    |
|                                                                                                                          | 9538    | 1907.6          | 20.65             | 0.116 |       |   | PASS    |
| HSPA+                                                                                                                    | 9262    | 1852.4          | 19.61             | 0.091 | 33    | 2 | PASS    |
|                                                                                                                          | 9400    | 1880.0          | 19.64             | 0.092 |       |   | PASS    |
|                                                                                                                          | 9538    | 1907.6          | 19.67             | 0.093 |       |   | PASS    |
| Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report. |         |                 |                   |       |       |   |         |

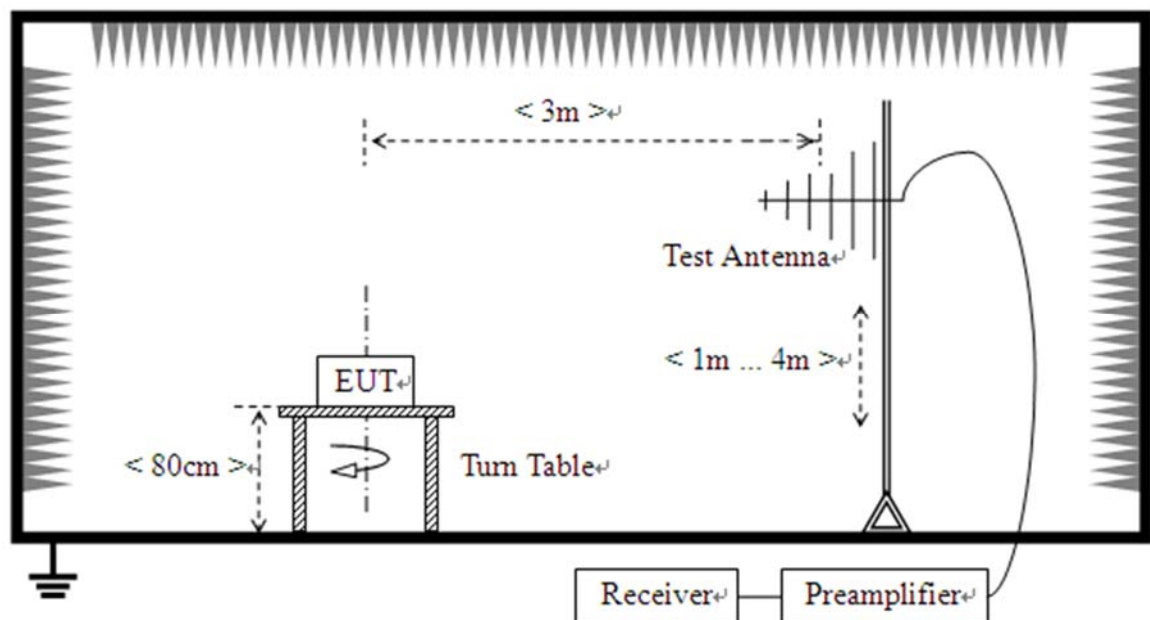


## 2.8. Radiated Out of Band Emissions

### 2.8.1. Requirement

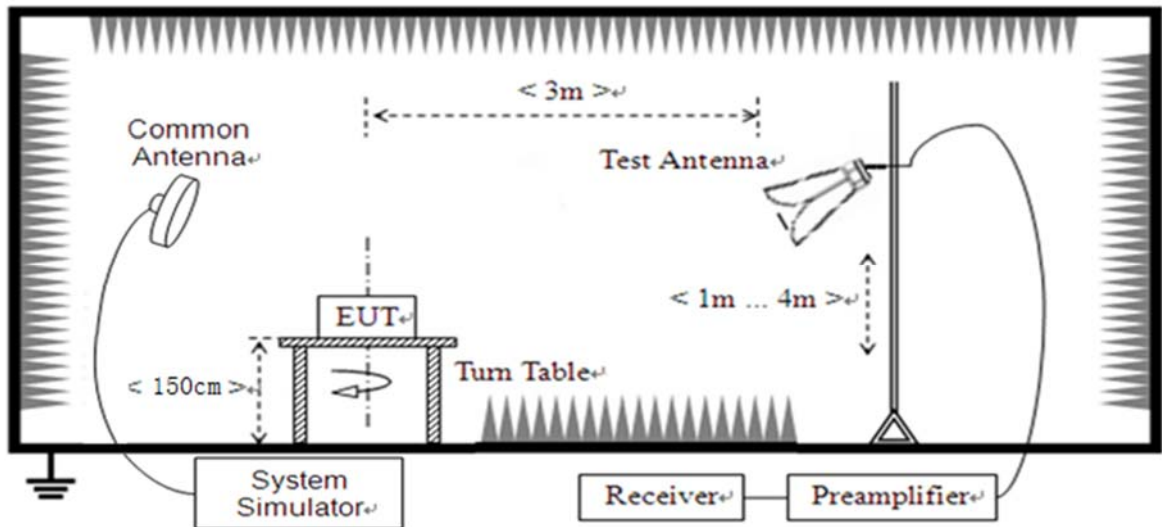
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10*\log(P)$ dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency.

### 2.8.2. Test Description



(For the test frequency from 30MHz to 1GHz)





(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

**Note:** When doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

### 2.8.3. Test Procedure

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements.



## 2.8.4.Test Result

**Note1:** The power of the EUT transmitting frequency should be ignored.

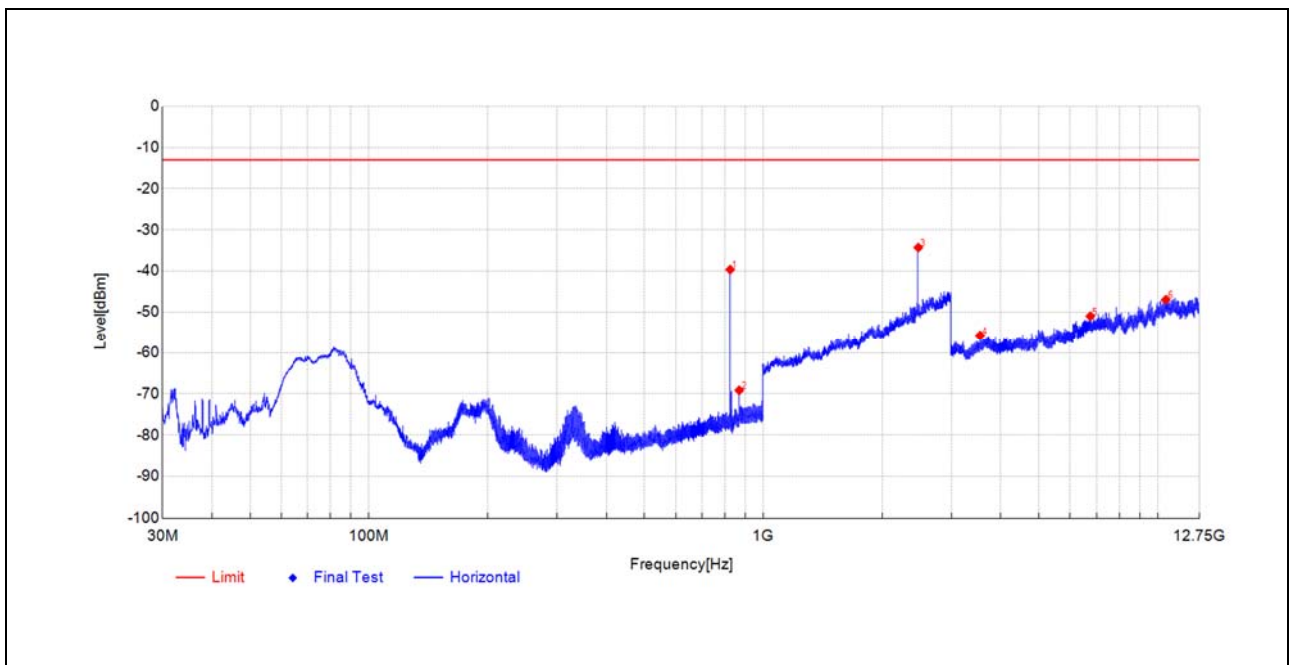
**Note2:** All test mode and condition mentioned were considered and evaluated respectively by performing full test, only the worst data were recorded and reported.

**Note3:** All spurious emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

**Note4:** NA means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

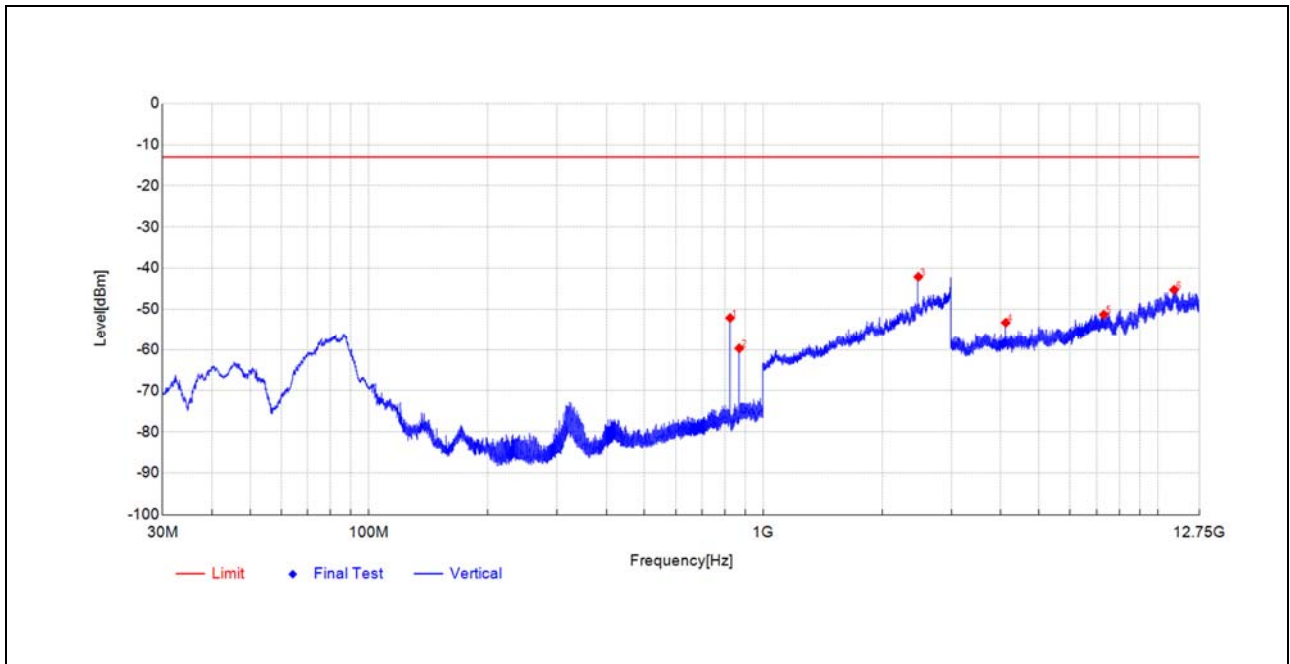
### GSM850(GSM)

Plot for Low Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 824.1302        | -33.84        | -39.64      | -5.8        | -           | -           | Horizontal | PK       | NA      |
| 869.189         | -64.29        | -69.16      | -4.9        | -           | -           | Horizontal | PK       | NA      |
| 2472.6945       | -44.62        | -34.28      | 10.3        | -13.0       | 21.3        | Horizontal | PK       | PASS    |
| 3545.5398       | -57.05        | -55.72      | 1.3         | -13.0       | 42.7        | Horizontal | PK       | PASS    |
| 6749.0625       | -62.58        | -50.98      | 11.6        | -13.0       | 38.0        | Horizontal | PK       | PASS    |
| 10485.449       | -66.76        | -46.97      | 19.8        | -13.0       | 34.0        | Horizontal | PK       | PASS    |

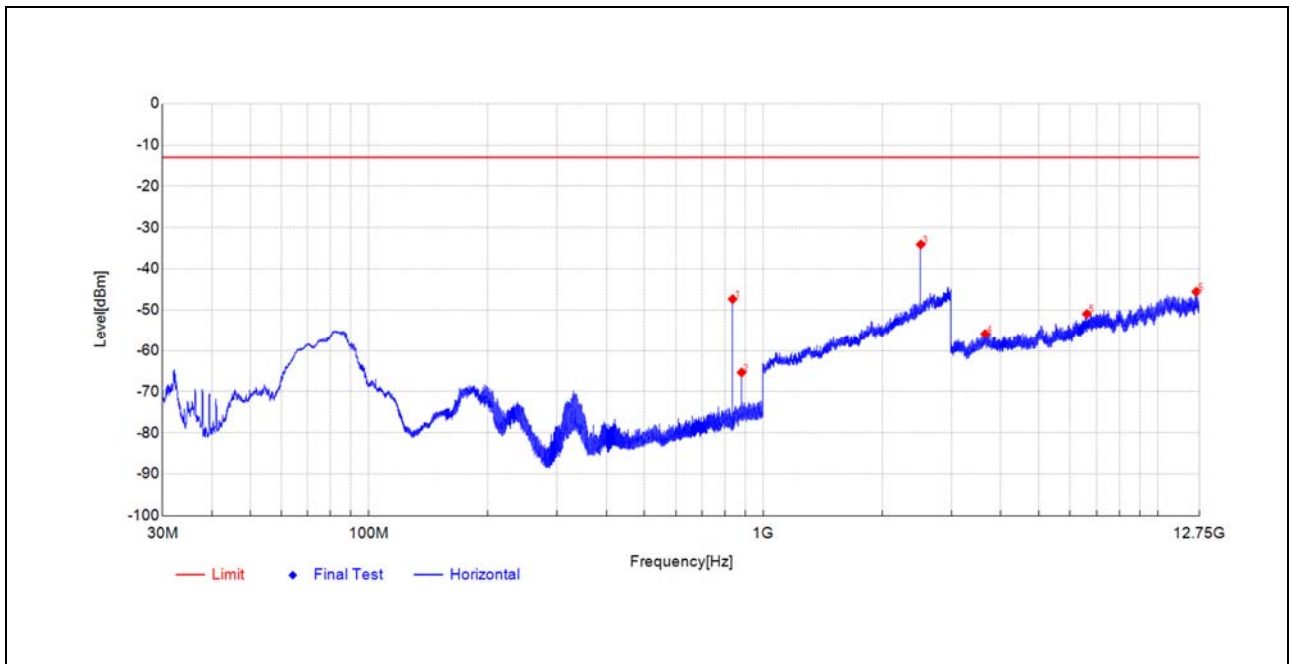




| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 824.1787        | -46.21        | -52.10      | -5.9        | -           | -           | Vertical | PK       | NA      |
| 869.2375        | -54.81        | -59.68      | -4.9        | -           | -           | Vertical | PK       | NA      |
| 2472.6945       | -52.51        | -42.08      | 10.4        | -13.0       | 29.1        | Vertical | PK       | PASS    |
| 4120.331        | -55.40        | -53.26      | 2.1         | -13.0       | 40.3        | Vertical | PK       | PASS    |
| 7298.9899       | -63.40        | -51.28      | 12.1        | -13.0       | 38.3        | Vertical | PK       | PASS    |
| 11007.100       | -67.27        | -45.25      | 22.0        | -13.0       | 32.3        | Vertical | PK       | PASS    |



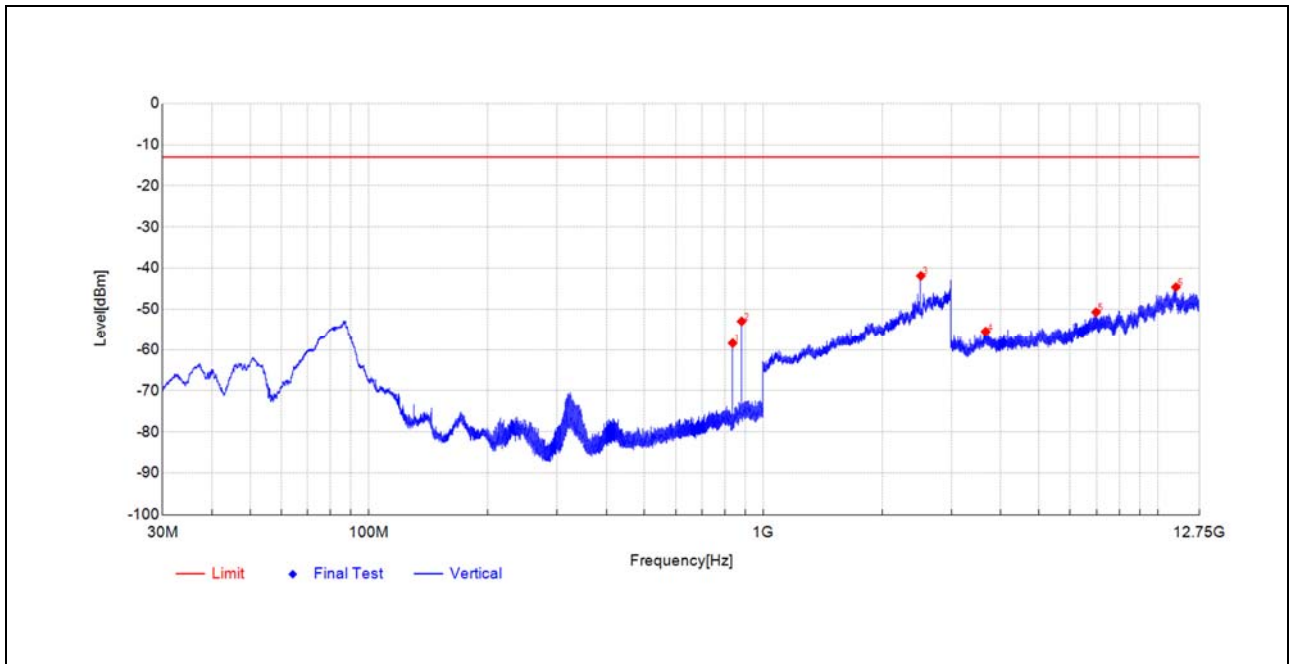
Plot for Mid Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 836.4498        | -41.77        | -47.30      | -5.5        | -           | -           | Horizontal | PK       | NA      |
| 881.3631        | -60.60        | -65.34      | -4.7        | -           | -           | Horizontal | PK       | NA      |
| 2508.7017       | -44.11        | -34.08      | 10.0        | -13.0       | 21.1        | Horizontal | PK       | PASS    |
| 3653.2827       | -57.54        | -55.82      | 1.7         | -13.0       | 42.8        | Horizontal | PK       | PASS    |
| 6611.5806       | -62.16        | -50.91      | 11.3        | -13.0       | 37.9        | Horizontal | PK       | PASS    |
| 12526.713       | -68.90        | -45.53      | 23.4        | -13.0       | 32.5        | Horizontal | PK       | PASS    |



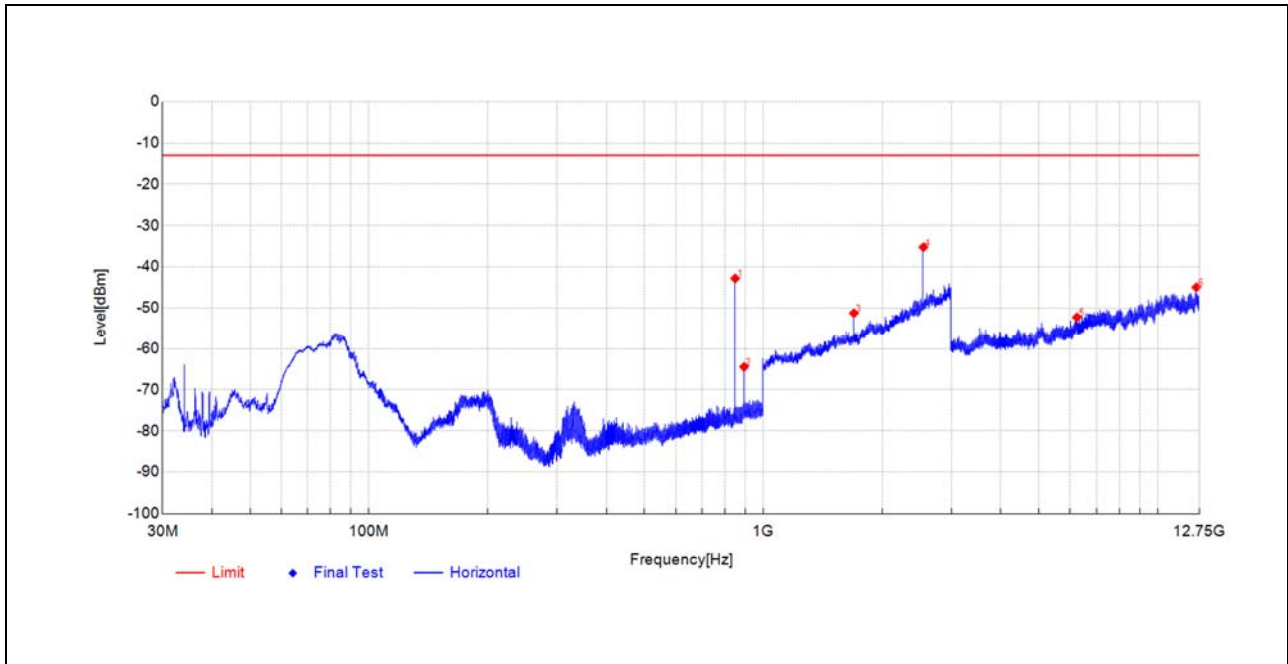




| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 836.3043        | -52.56        | -58.39      | -5.8        | -           | -           | Vertical | PK       | NA      |
| 881.4601        | -48.46        | -52.93      | -4.5        | -           | -           | Vertical | PK       | NA      |
| 2509.5019       | -51.70        | -41.85      | 9.9         | -13.0       | 28.9        | Vertical | PK       | PASS    |
| 3662.5456       | -57.14        | -55.47      | 1.7         | -13.0       | 42.5        | Vertical | PK       | PASS    |
| 6982.0991       | -61.81        | -50.69      | 11.1        | -13.0       | 37.7        | Vertical | PK       | PASS    |
| 11122.156       | -66.69        | -44.59      | 22.1        | -13.0       | 31.6        | Vertical | PK       | PASS    |

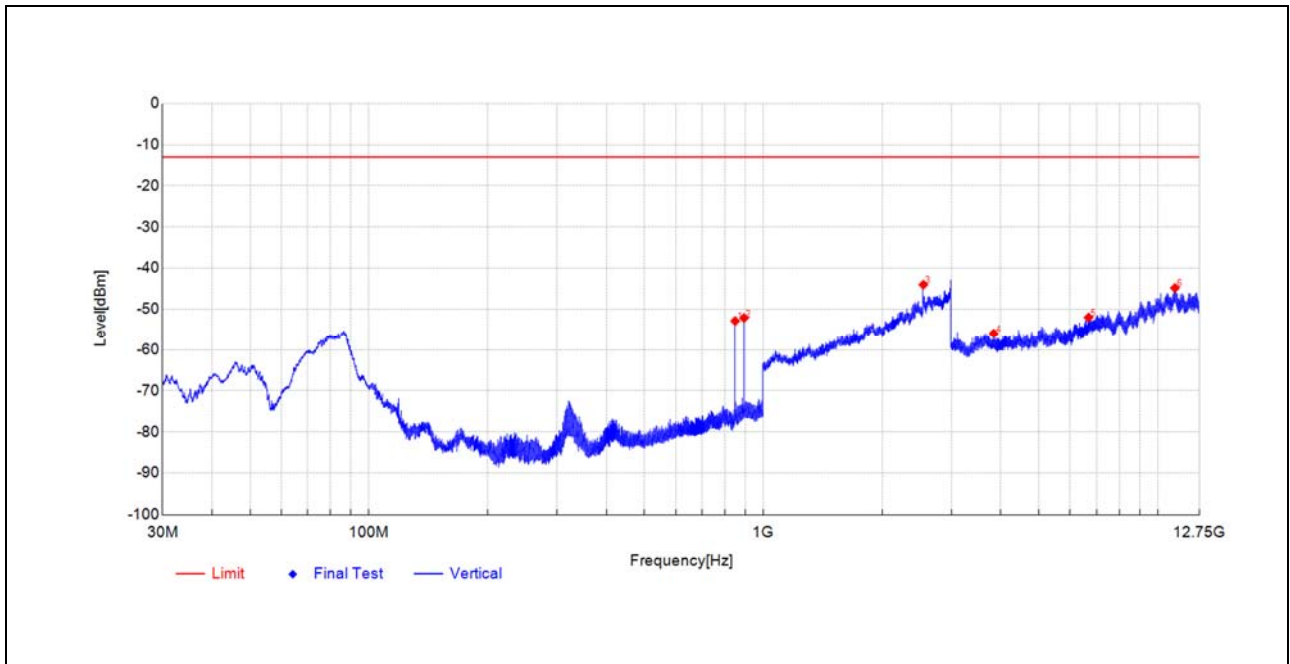


### Plot for High Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 848.8664        | -37.60        | -42.79      | -5.2        | -           | -           | Horizontal | PK       | NA      |
| 893.7797        | -59.77        | -64.44      | -4.7        | -           | -           | Horizontal | PK       | NA      |
| 1697.3395       | -54.14        | -51.22      | 2.9         | -13.0       | 38.2        | Horizontal | PK       | PASS    |
| 2546.7093       | -46.24        | -35.22      | 11.0        | -13.0       | 22.2        | Horizontal | PK       | PASS    |
| 6239.112        | -62.03        | -52.22      | 9.8         | -13.0       | 39.2        | Horizontal | PK       | PASS    |
| 12532.076       | -68.30        | -44.94      | 23.4        | -13.0       | 31.9        | Horizontal | PK       | PASS    |





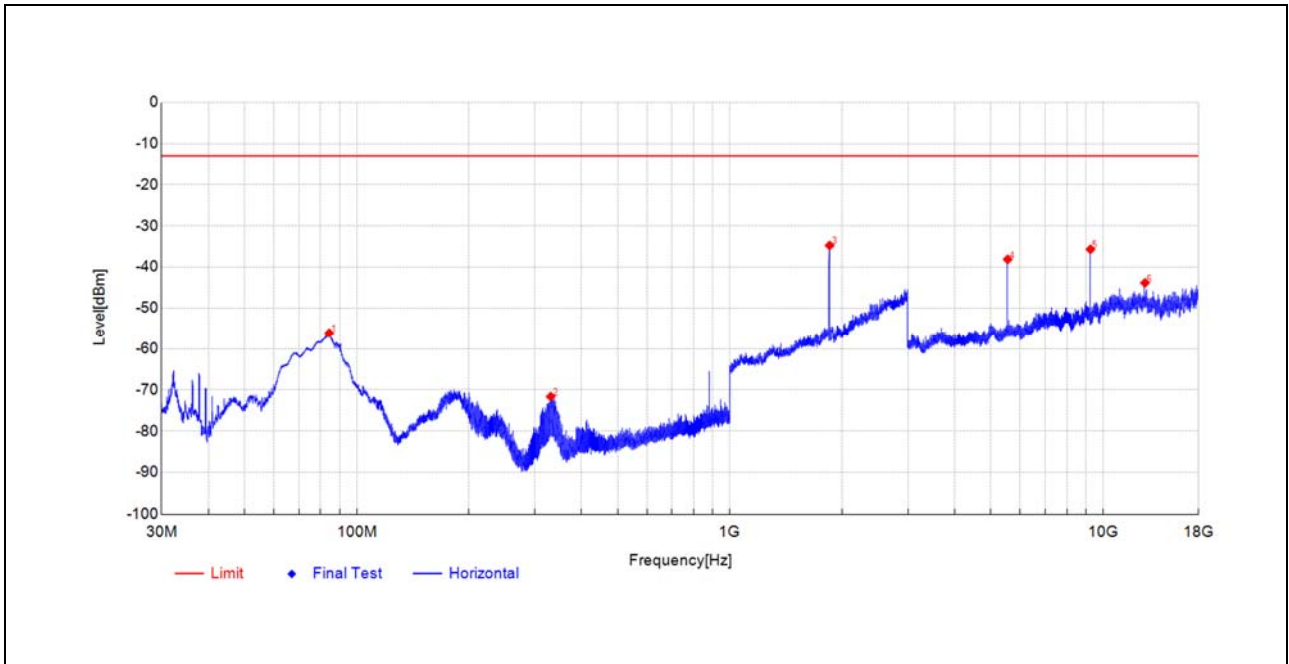
| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 848.8664        | -47.32        | -52.84      | -5.5        | -           | -           | Vertical | PK       | NA      |
| 893.7312        | -47.68        | -52.11      | -4.4        | -           | -           | Vertical | PK       | NA      |
| 2546.3093       | -55.46        | -44.01      | 11.5        | -13.0       | 31.0        | Vertical | PK       | PASS    |
| 3839.517        | -56.73        | -55.95      | 0.8         | -13.0       | 43.0        | Vertical | PK       | PASS    |
| 6679.834        | -62.19        | -52.00      | 10.2        | -13.0       | 39.0        | Vertical | PK       | PASS    |
| 11061.215       | -67.04        | -44.79      | 22.3        | -13.0       | 31.8        | Vertical | PK       | PASS    |





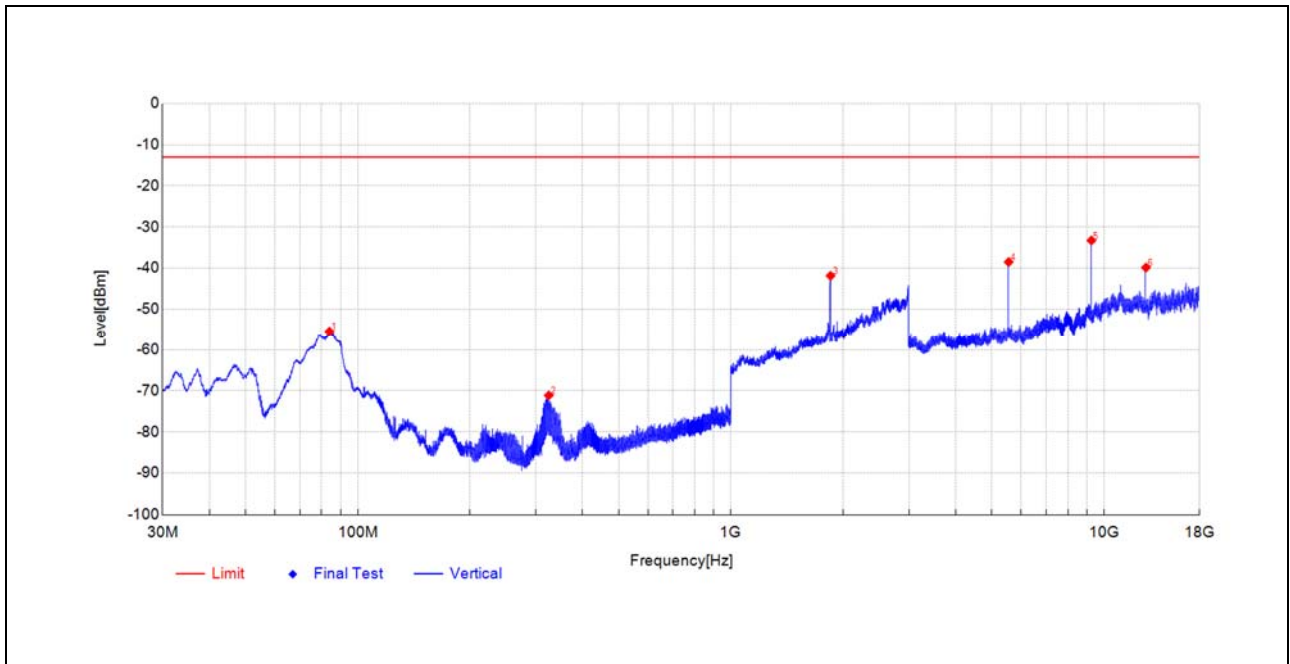
# GSM1900(GSM)

## Plot for Low Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 84.3712         | -32.44        | -56.11      | -23.7       | -13.0       | 43.1        | Horizontal | PK       | PASS    |
| 330.9575        | -54.80        | -71.64      | -16.8       | -13.0       | 58.6        | Horizontal | PK       | PASS    |
| 1850.17         | -39.02        | -34.74      | 4.3         | -           | -           | Horizontal | PK       | NA      |
| 5550.793        | -44.78        | -38.12      | 6.7         | -13.0       | 25.1        | Horizontal | PK       | PASS    |
| 9250.69         | -51.34        | -35.67      | 15.7        | -13.0       | 22.7        | Horizontal | PK       | PASS    |
| 12952.118       | -66.65        | -43.84      | 22.8        | -13.0       | 30.8        | Horizontal | PK       | PASS    |

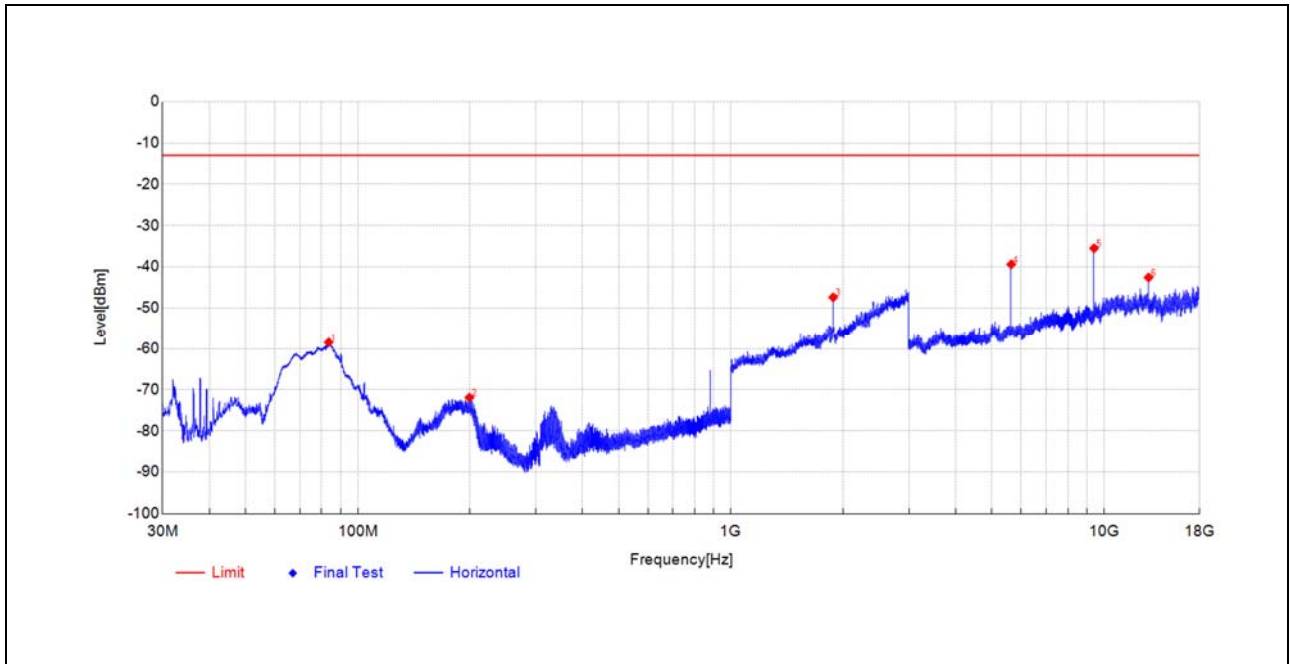




| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 83.9832         | -32.54        | -55.42      | -22.9       | -13.0       | 42.4        | Vertical | PK       | PASS    |
| 325.0403        | -55.10        | -71.14      | -16.0       | -13.0       | 58.1        | Vertical | PK       | PASS    |
| 1850.17         | -46.16        | -41.84      | 4.3         | -           | -           | Vertical | PK       | NA      |
| 5550.793        | -44.83        | -38.48      | 6.4         | -13.0       | 25.5        | Vertical | PK       | PASS    |
| 9250.69         | -49.69        | -33.25      | 16.4        | -13.0       | 20.3        | Vertical | PK       | PASS    |
| 12951.158       | -61.84        | -39.83      | 22.0        | -13.0       | 26.8        | Vertical | PK       | PASS    |

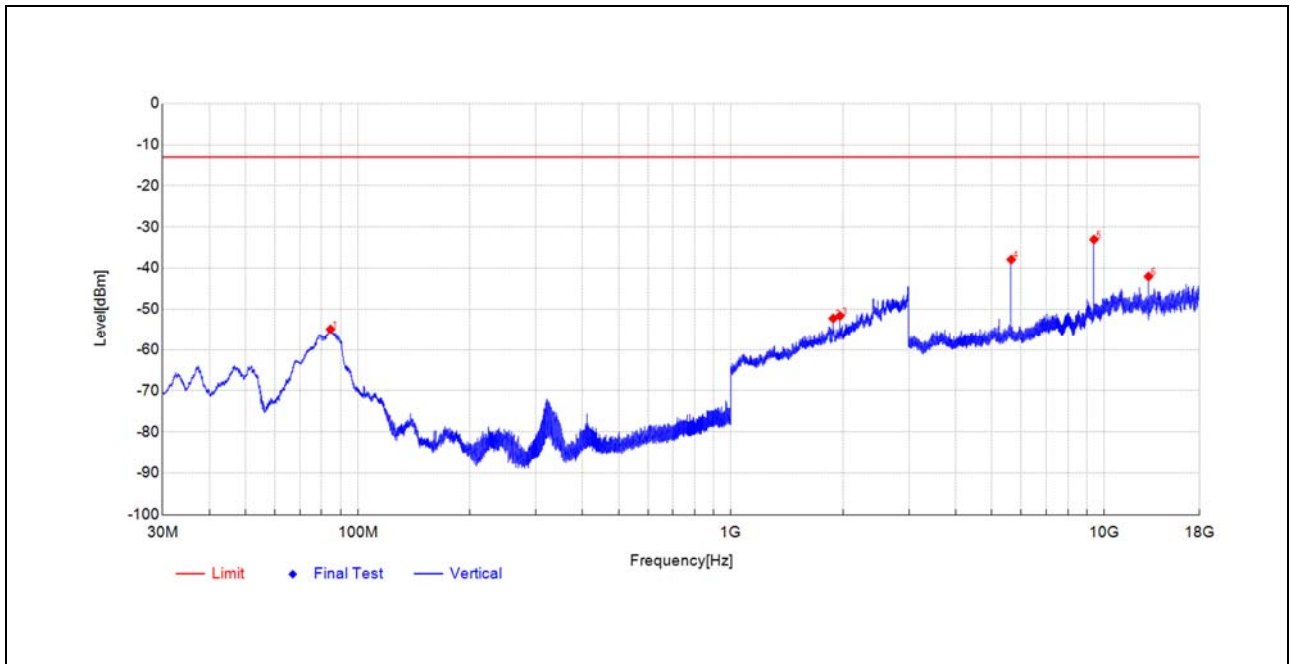


Plot for Mid Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 83.5952         | -34.74        | -58.44      | -23.7       | -13.0       | 45.4        | Horizontal | PK       | PASS    |
| 199.225         | -53.95        | -71.91      | -18.0       | -13.0       | 58.9        | Horizontal | PK       | PASS    |
| 1880.176        | -52.64        | -47.36      | 5.3         | -           | -           | Horizontal | PK       | NA      |
| 5640.3772       | -46.47        | -39.37      | 7.1         | -13.0       | 26.4        | Horizontal | PK       | PASS    |
| 9400.456        | -51.79        | -35.48      | 16.3        | -13.0       | 22.5        | Horizontal | PK       | PASS    |
| 13160.446       | -65.34        | -42.55      | 22.8        | -13.0       | 29.6        | Horizontal | PK       | PASS    |



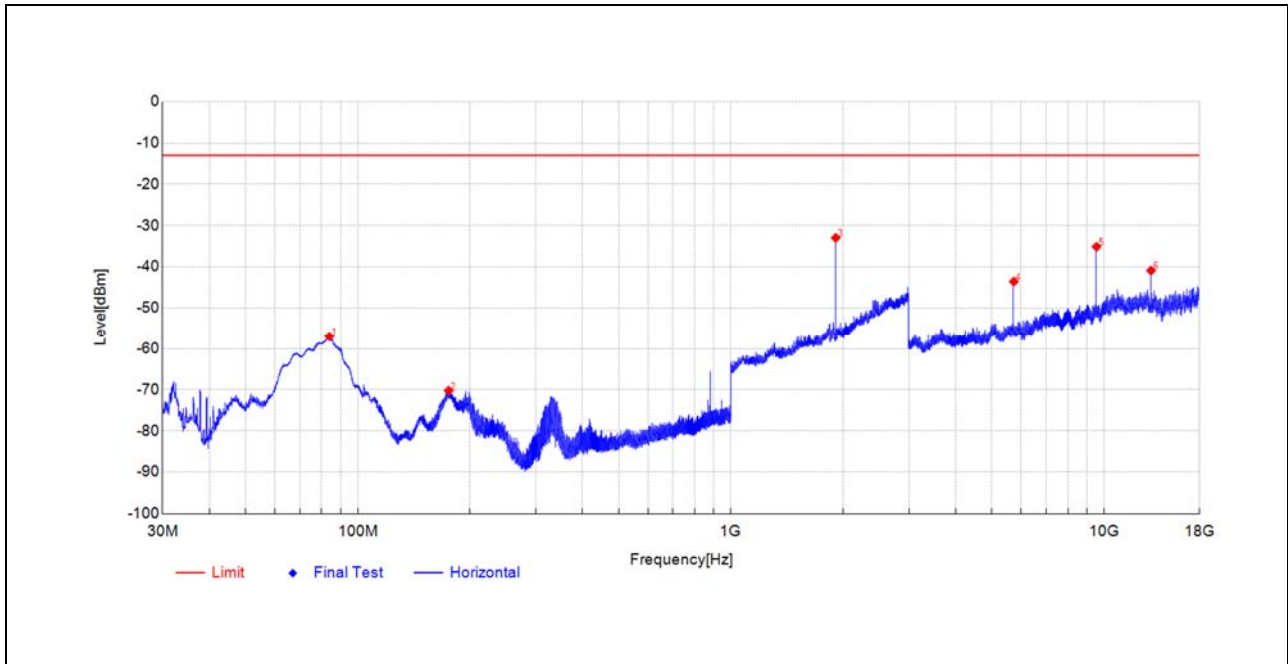


| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 84.5652         | -32.07        | -54.89      | -22.8       | -13.0       | 41.9        | Vertical | PK       | PASS    |
| 1880.176        | -57.33        | -52.22      | 5.1         | -           | -           | Vertical | PK       | NA      |
| 1960.192        | -55.81        | -51.60      | 4.2         | -           | -           | Vertical | PK       | NA      |
| 5639.9486       | -44.60        | -37.90      | 6.7         | -13.0       | 24.9        | Vertical | PK       | PASS    |
| 9399.496        | -49.51        | -33.02      | 16.5        | -13.0       | 20.0        | Vertical | PK       | PASS    |
| 13160.446       | -63.20        | -42.01      | 21.2        | -13.0       | 29.0        | Vertical | PK       | PASS    |



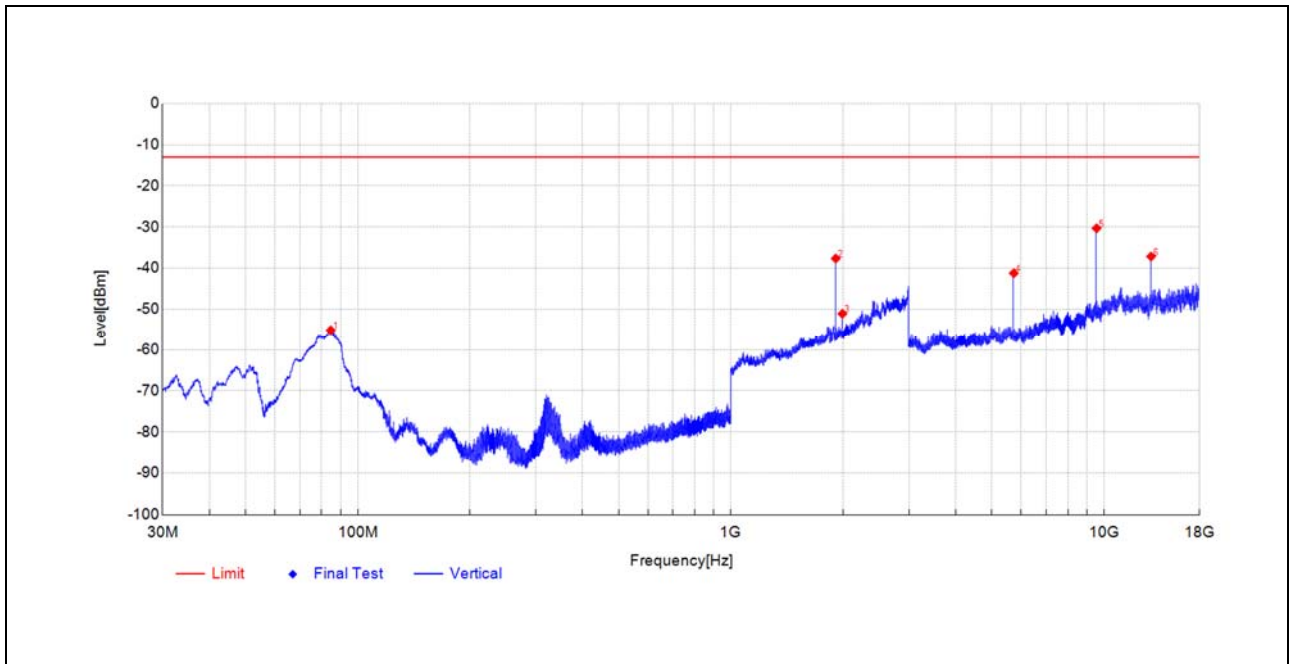


### Plot for High Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 83.9347         | -33.28        | -56.97      | -23.7       | -13.0       | 44.0        | Horizontal | PK       | PASS    |
| 175.2163        | -48.15        | -70.23      | -22.1       | -13.0       | 57.2        | Horizontal | PK       | PASS    |
| 1909.782        | -37.19        | -32.96      | 4.2         | -           | -           | Horizontal | PK       | NA      |
| 5729.5328       | -50.98        | -43.55      | 7.4         | -13.0       | 30.6        | Horizontal | PK       | PASS    |
| 9549.262        | -51.94        | -35.11      | 16.8        | -13.0       | 22.1        | Horizontal | PK       | PASS    |
| 13368.774       | -62.70        | -40.87      | 21.8        | -13.0       | 27.9        | Horizontal | PK       | PASS    |



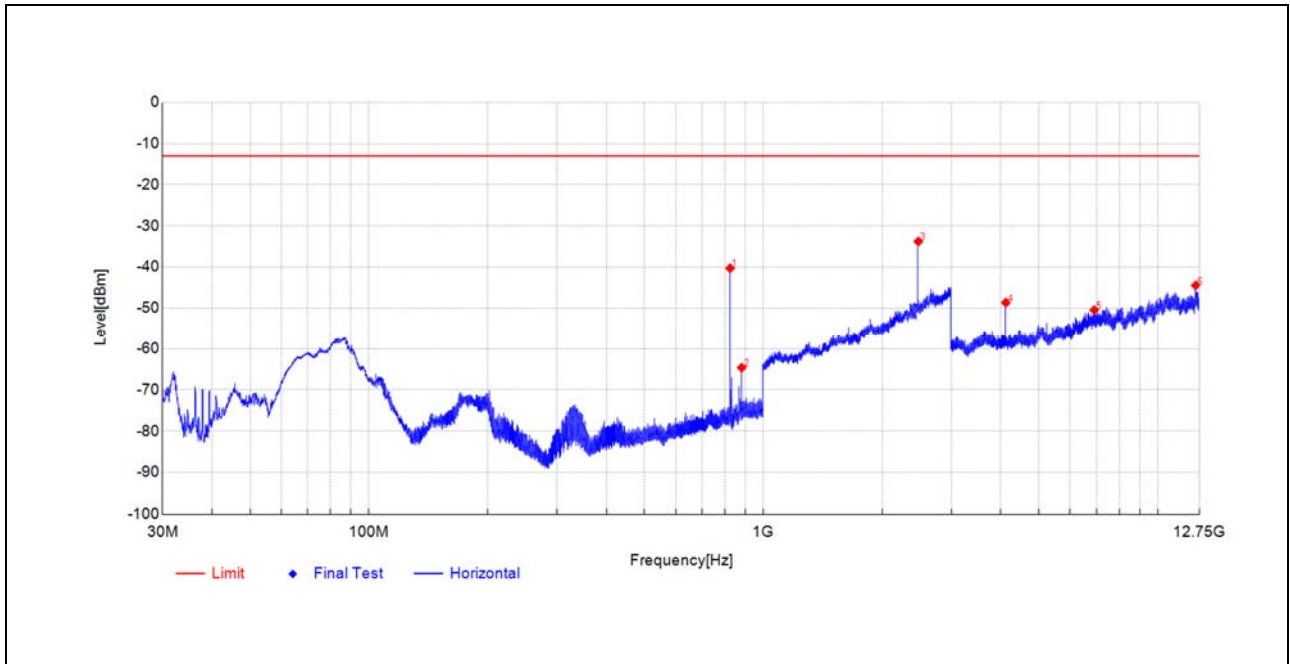


| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 84.6622         | -32.28        | -55.10      | -22.8       | -13.0       | 42.1        | Vertical | PK       | PASS    |
| 1909.782        | -42.48        | -37.63      | 4.9         | -           | -           | Vertical | PK       | NA      |
| 1989.798        | -55.47        | -51.07      | 4.4         | -           | -           | Vertical | PK       | NA      |
| 5729.5328       | -47.76        | -41.21      | 6.6         | -13.0       | 28.2        | Vertical | PK       | PASS    |
| 9549.262        | -47.47        | -30.30      | 17.2        | -13.0       | 17.3        | Vertical | PK       | PASS    |
| 13368.774       | -59.64        | -37.15      | 22.5        | -13.0       | 24.2        | Vertical | PK       | PASS    |



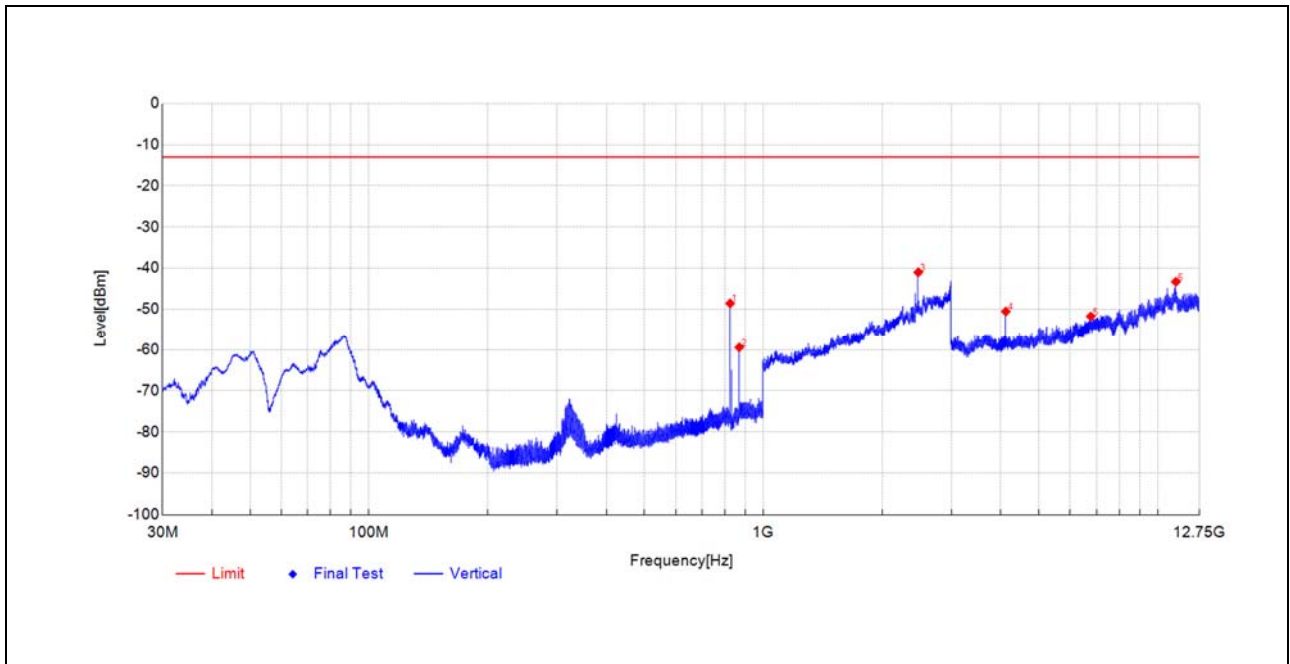
**GSM850(EDGE)**

Plot for Low Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 824.1787        | -34.46        | -40.26      | -5.8        | -           | -           | Horizontal | PK       | NA      |
| 881.4116        | -59.90        | -64.64      | -4.7        | -           | -           | Horizontal | PK       | NA      |
| 2472.6945       | -44.10        | -33.76      | 10.3        | -13.0       | 20.8        | Horizontal | PK       | PASS    |
| 4120.8185       | -50.72        | -48.62      | 2.1         | -13.0       | 35.6        | Horizontal | PK       | PASS    |
| 6904.5827       | -61.75        | -50.42      | 11.3        | -13.0       | 37.4        | Horizontal | PK       | PASS    |
| 12487.224       | -67.58        | -44.44      | 23.1        | -13.0       | 31.4        | Horizontal | PK       | PASS    |

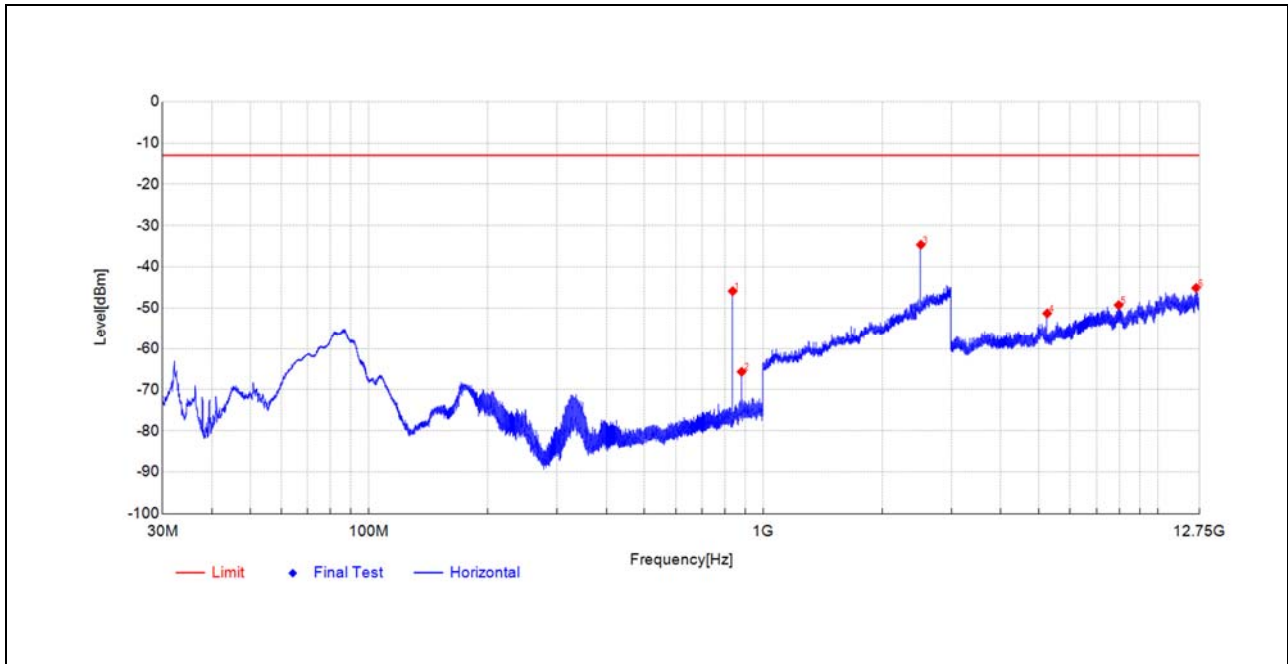




| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 824.1302        | -42.65        | -48.54      | -5.9        | -           | -           | Vertical | PK       | NA      |
| 869.2375        | -54.55        | -59.42      | -4.9        | -           | -           | Vertical | PK       | NA      |
| 2472.6945       | -51.41        | -40.98      | 10.4        | -13.0       | 28.0        | Vertical | PK       | PASS    |
| 4120.8185       | -52.66        | -50.52      | 2.1         | -13.0       | 37.5        | Vertical | PK       | PASS    |
| 6766.1258       | -62.45        | -51.72      | 10.7        | -13.0       | 38.7        | Vertical | PK       | PASS    |
| 11121.181       | -65.40        | -43.29      | 22.1        | -13.0       | 30.3        | Vertical | PK       | PASS    |

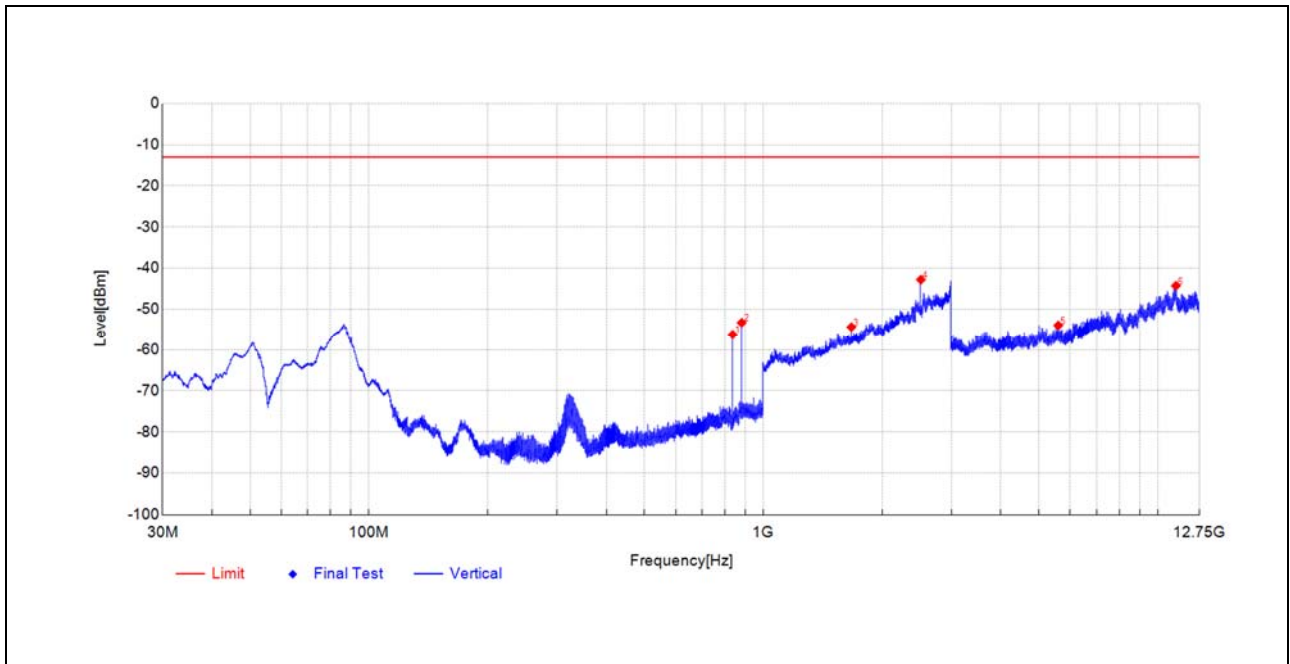


Plot for Mid Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 836.4013        | -40.32        | -45.86      | -5.5        | -           | -           | Horizontal | PK       | NA      |
| 881.4116        | -60.90        | -65.64      | -4.7        | -           | -           | Horizontal | PK       | NA      |
| 2509.1018       | -44.67        | -34.62      | 10.1        | -13.0       | 21.6        | Horizontal | PK       | PASS    |
| 5245.5373       | -56.52        | -51.26      | 5.3         | -13.0       | 38.3        | Horizontal | PK       | PASS    |
| 7965.4358       | -62.53        | -49.25      | 13.3        | -13.0       | 36.3        | Horizontal | PK       | PASS    |
| 12516.963       | -68.47        | -45.08      | 23.4        | -13.0       | 32.1        | Horizontal | PK       | PASS    |

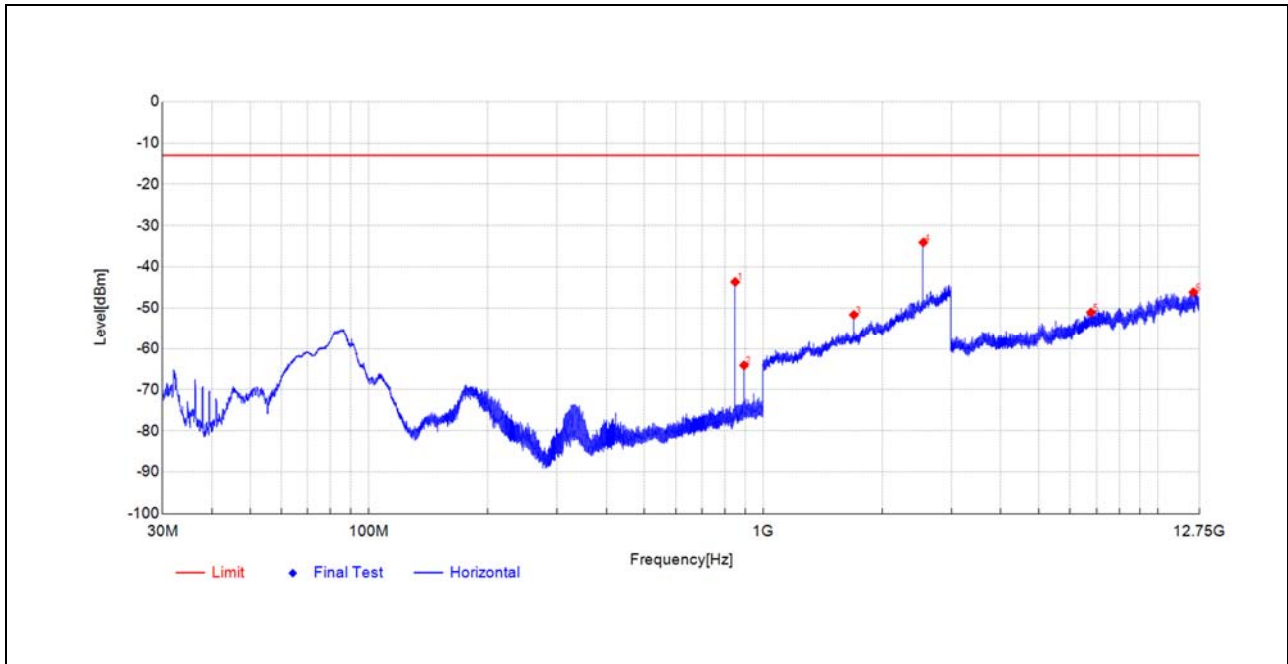




| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 836.4983        | -50.40        | -56.23      | -5.8        | -           | -           | Vertical | PK       | NA      |
| 881.4601        | -48.79        | -53.26      | -4.5        | -           | -           | Vertical | PK       | NA      |
| 1672.9346       | -57.10        | -54.35      | 2.8         | -13.0       | 41.4        | Vertical | PK       | PASS    |
| 2509.1018       | -52.63        | -42.78      | 9.9         | -13.0       | 29.8        | Vertical | PK       | PASS    |
| 5596.5548       | -60.69        | -53.93      | 6.8         | -13.0       | 40.9        | Vertical | PK       | PASS    |
| 11123.131       | -66.35        | -44.27      | 22.1        | -13.0       | 31.3        | Vertical | PK       | PASS    |



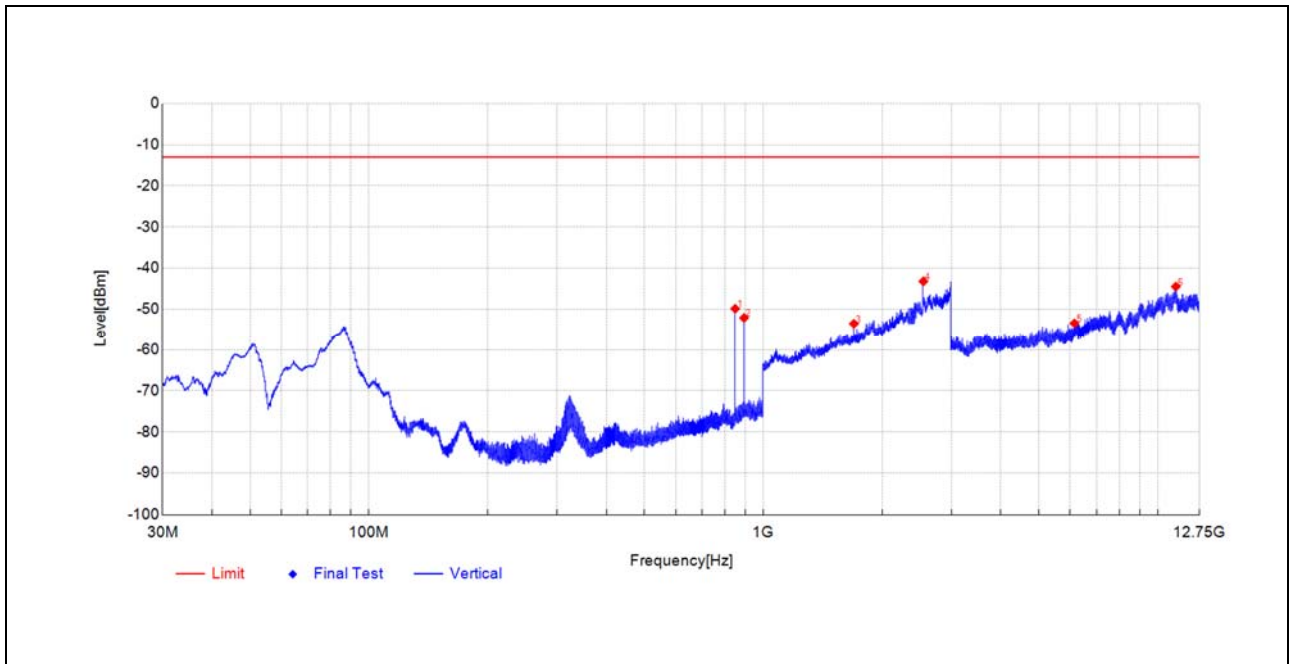
Plot for High Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 848.8664        | -38.44        | -43.63      | -5.2        | -           | -           | Horizontal | PK       | NA      |
| 893.8282        | -59.42        | -64.09      | -4.7        | -           | -           | Horizontal | PK       | NA      |
| 1697.3395       | -54.54        | -51.62      | 2.9         | -13.0       | 38.6        | Horizontal | PK       | PASS    |
| 2546.3093       | -45.08        | -34.06      | 11.0        | -13.0       | 21.1        | Horizontal | PK       | PASS    |
| 6772.4636       | -62.72        | -51.04      | 11.7        | -13.0       | 38.0        | Horizontal | PK       | PASS    |
| 12317.078       | -67.84        | -46.15      | 21.7        | -13.0       | 33.2        | Horizontal | PK       | PASS    |





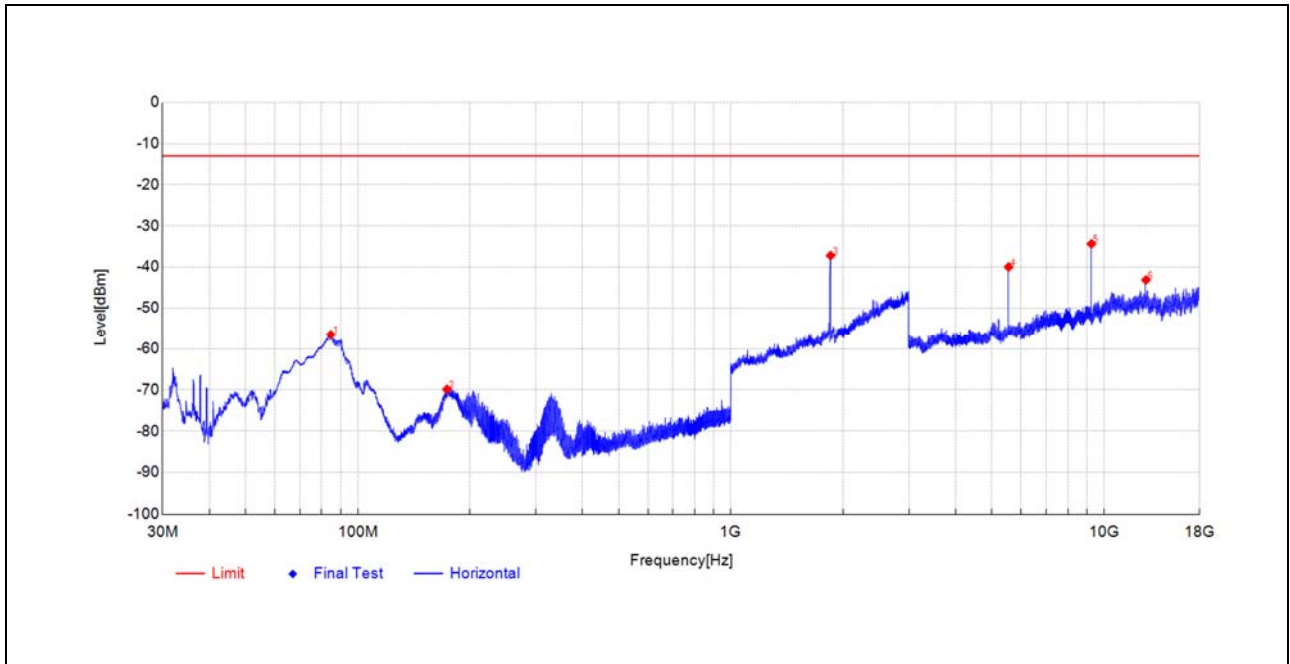


| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 848.7209        | -44.30        | -49.83      | -5.5        | -           | -           | Vertical | PK       | NA      |
| 893.8767        | -47.63        | -52.06      | -4.4        | -           | -           | Vertical | PK       | NA      |
| 1697.3395       | -56.60        | -53.51      | 3.1         | -13.0       | 40.5        | Vertical | PK       | PASS    |
| 2546.7093       | -54.66        | -43.17      | 11.5        | -13.0       | 30.2        | Vertical | PK       | PASS    |
| 6152.3326       | -61.80        | -53.40      | 8.4         | -13.0       | 40.4        | Vertical | PK       | PASS    |
| 11114.843       | -66.66        | -44.46      | 22.2        | -13.0       | 31.5        | Vertical | PK       | PASS    |



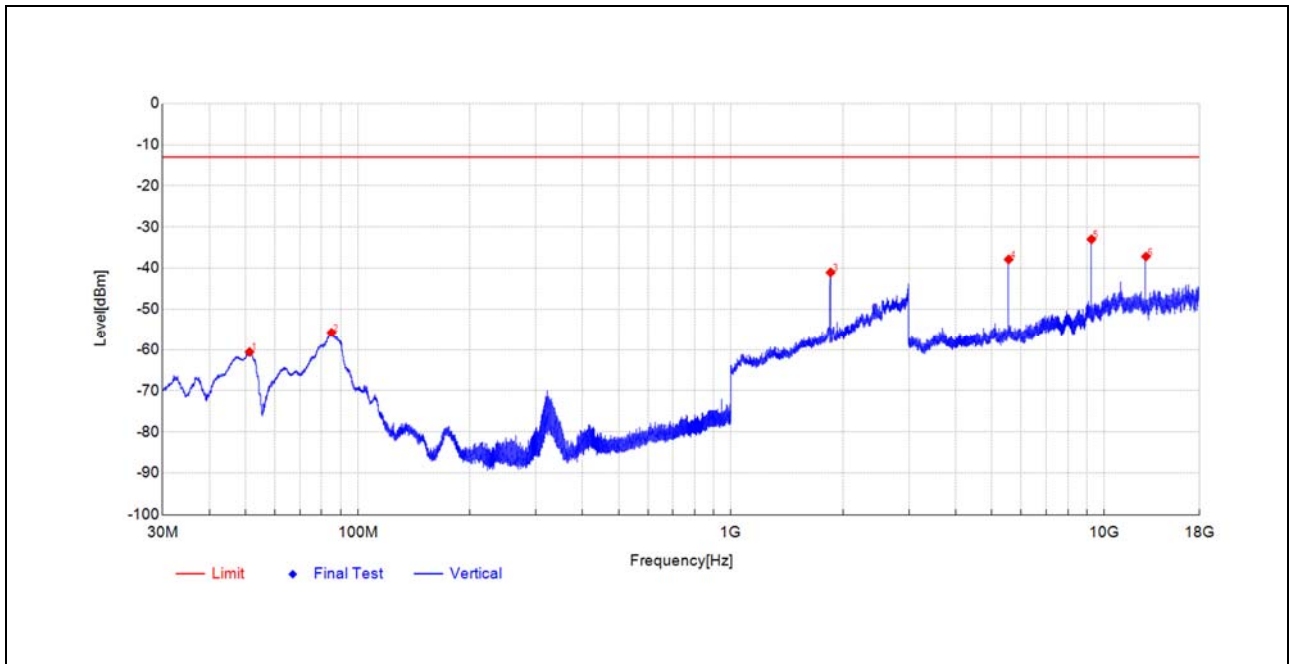
**GSM1900(EDGE)**

Plot for Low Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 84.7107         | -32.86        | -56.51      | -23.7       | -13.0       | 43.5        | Horizontal | PK       | PASS    |
| 173.4217        | -47.54        | -69.89      | -22.4       | -13.0       | 56.9        | Horizontal | PK       | PASS    |
| 1850.17         | -41.47        | -37.19      | 4.3         | -           | -           | Horizontal | PK       | NA      |
| 5550.793        | -46.63        | -39.97      | 6.7         | -13.0       | 27.0        | Horizontal | PK       | PASS    |
| 9251.17         | -50.01        | -34.34      | 15.7        | -13.0       | 21.3        | Horizontal | PK       | PASS    |
| 12951.638       | -65.93        | -43.12      | 22.8        | -13.0       | 30.1        | Horizontal | PK       | PASS    |

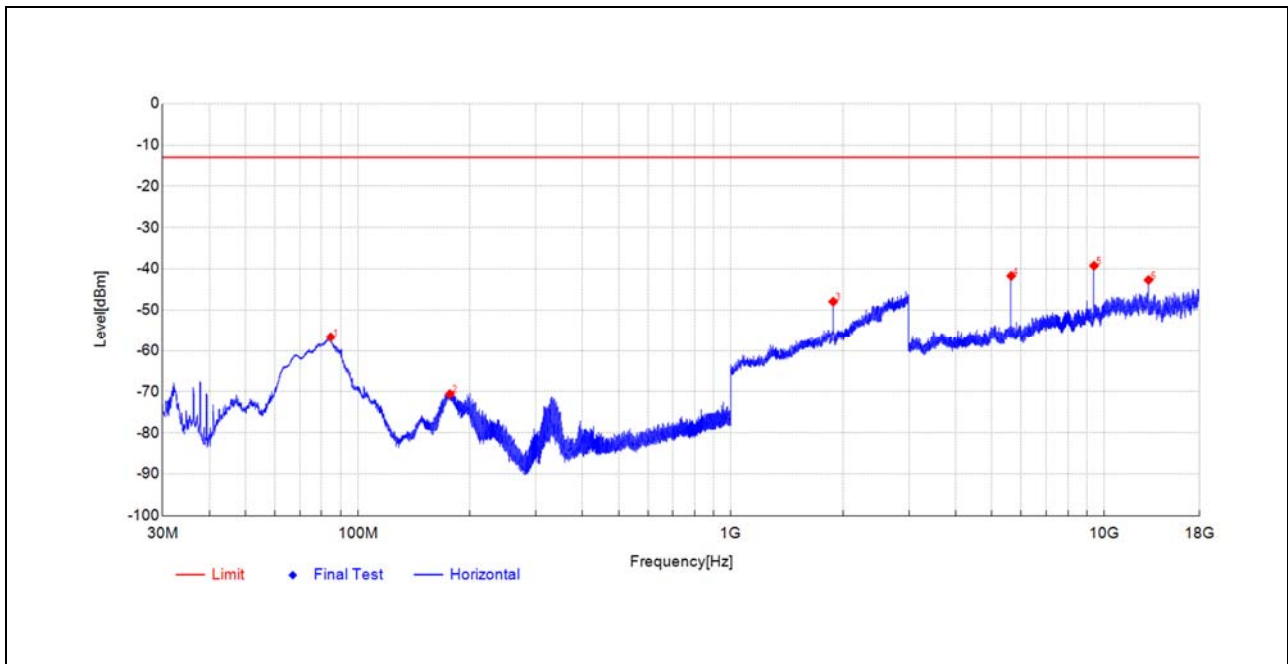




| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 51.2926         | -42.39        | -60.55      | -18.2       | -13.0       | 47.6        | Vertical | PK       | PASS    |
| 85.0503         | -32.95        | -55.73      | -22.8       | -13.0       | 42.7        | Vertical | PK       | PASS    |
| 1850.17         | -45.36        | -41.04      | 4.3         | -           | -           | Vertical | PK       | NA      |
| 5551.2216       | -44.22        | -37.86      | 6.4         | -13.0       | 24.9        | Vertical | PK       | PASS    |
| 9251.17         | -49.41        | -32.97      | 16.4        | -13.0       | 20.0        | Vertical | PK       | PASS    |
| 12951.638       | -59.18        | -37.17      | 22.0        | -13.0       | 24.2        | Vertical | PK       | PASS    |

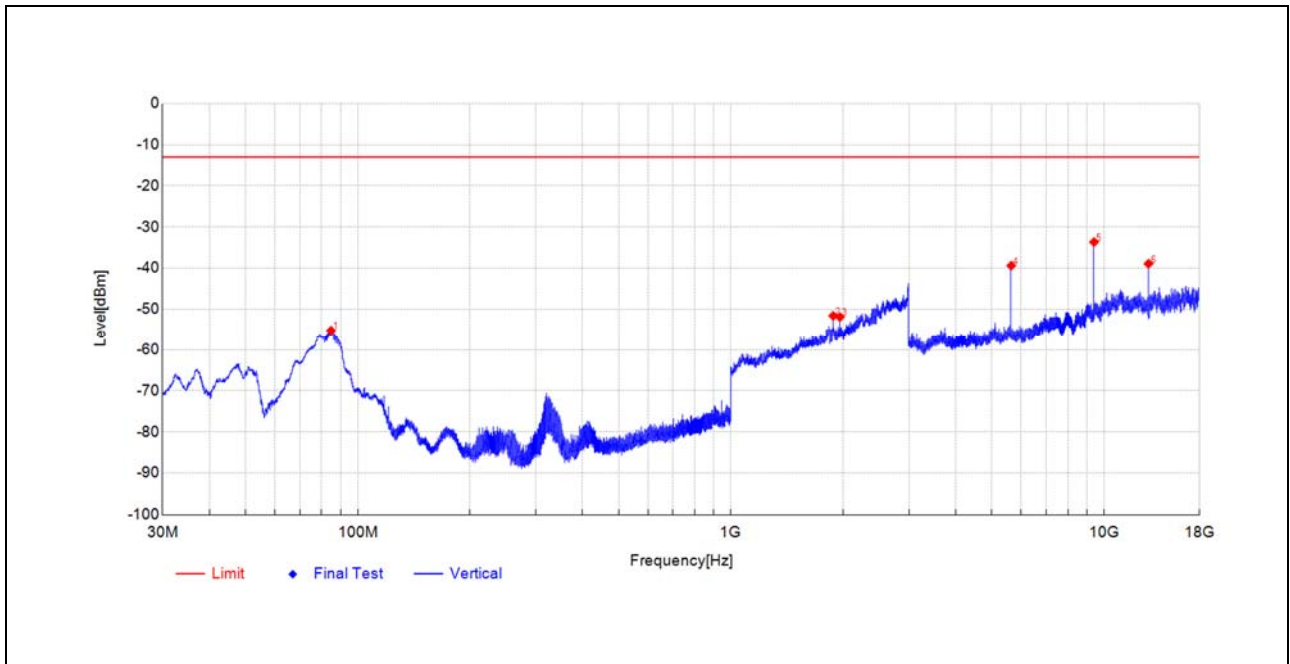


Plot for Mid Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 84.6622         | -32.97        | -56.63      | -23.7       | -13.0       | 43.6        | Horizontal | PK       | PASS    |
| 176.5743        | -48.73        | -70.59      | -21.9       | -13.0       | 57.6        | Horizontal | PK       | PASS    |
| 1879.776        | -53.21        | -47.93      | 5.3         | -           | -           | Horizontal | PK       | NA      |
| 5639.9486       | -48.79        | -41.69      | 7.1         | -13.0       | 28.7        | Horizontal | PK       | PASS    |
| 9399.976        | -55.54        | -39.23      | 16.3        | -13.0       | 26.2        | Horizontal | PK       | PASS    |
| 13159.486       | -65.50        | -42.68      | 22.8        | -13.0       | 29.7        | Horizontal | PK       | PASS    |

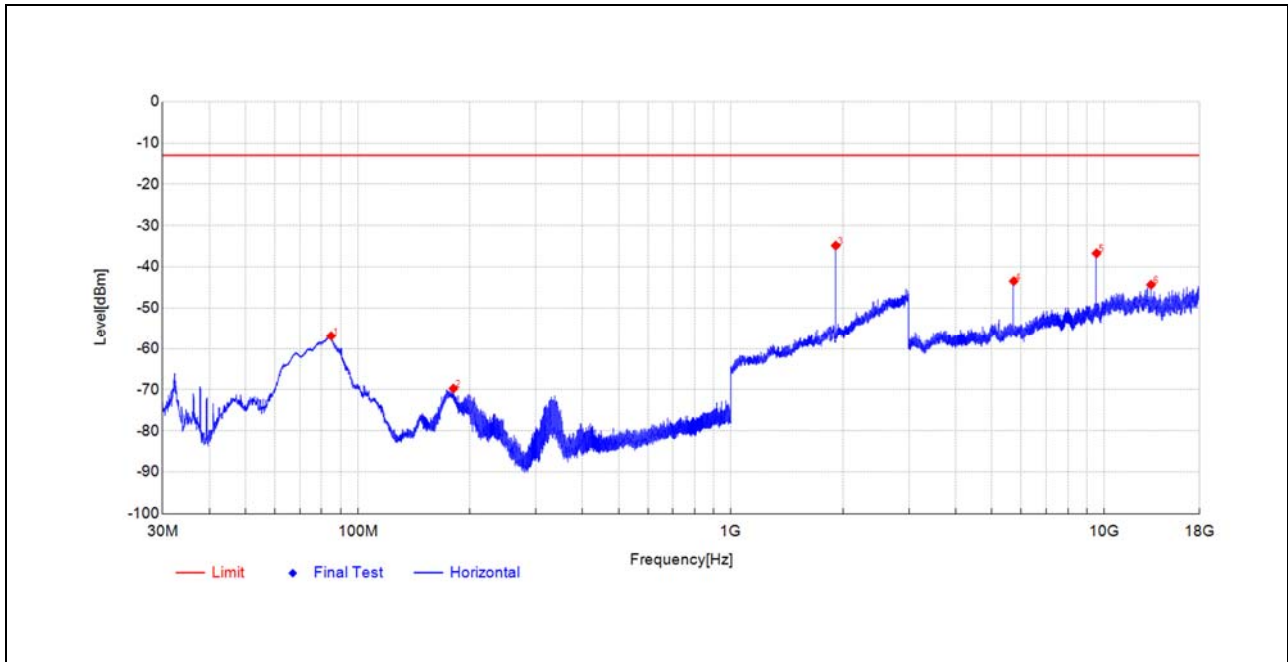




| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 84.8077         | -32.41        | -55.21      | -22.8       | -13.0       | 42.2        | Vertical | PK       | PASS    |
| 1879.776        | -56.67        | -51.57      | 5.1         | -           | -           | Vertical | PK       | NA      |
| 1960.192        | -56.07        | -51.86      | 4.2         | -           | -           | Vertical | PK       | NA      |
| 5639.9486       | -46.07        | -39.37      | 6.7         | -13.0       | 26.4        | Vertical | PK       | PASS    |
| 9400.456        | -50.13        | -33.64      | 16.5        | -13.0       | 20.6        | Vertical | PK       | PASS    |
| 13159.486       | -60.13        | -38.91      | 21.2        | -13.0       | 25.9        | Vertical | PK       | PASS    |

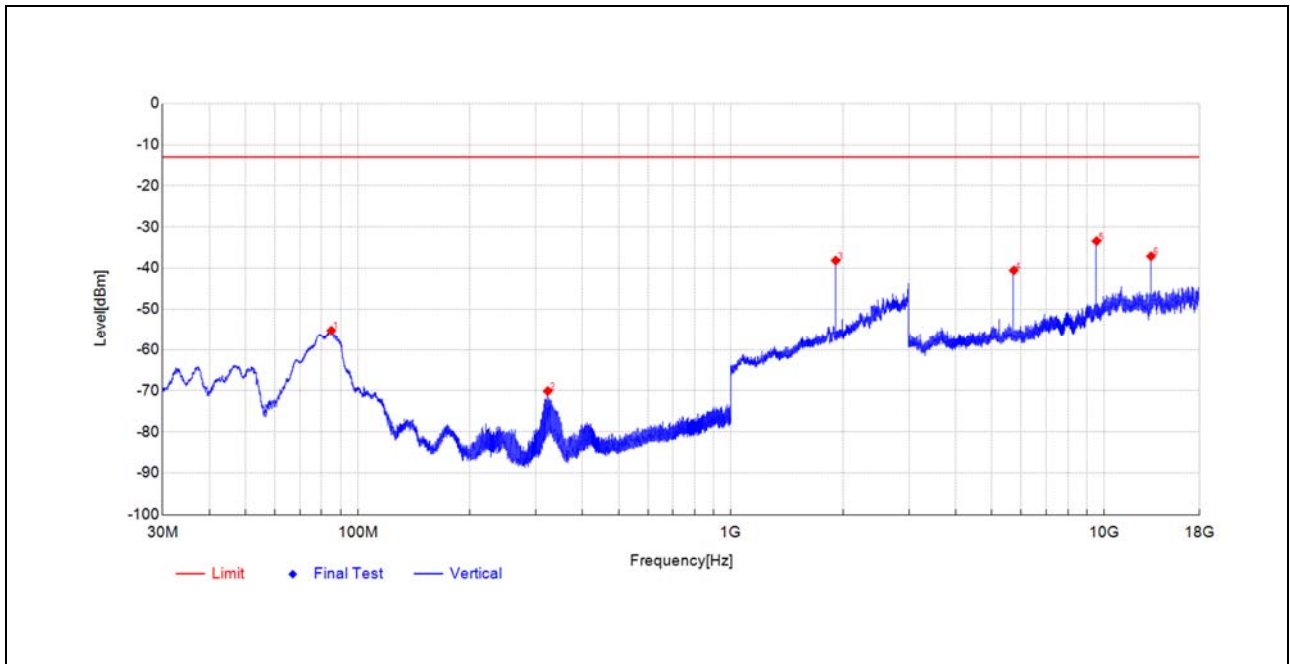


Plot for High Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 84.8562         | -33.19        | -56.83      | -23.6       | -13.0       | 43.8        | Horizontal | PK       | PASS    |
| 180.4545        | -48.51        | -69.73      | -21.2       | -13.0       | 56.7        | Horizontal | PK       | PASS    |
| 1909.782        | -39.06        | -34.83      | 4.2         | -           | -           | Horizontal | PK       | NA      |
| 5729.1042       | -50.87        | -43.44      | 7.4         | -13.0       | 30.4        | Horizontal | PK       | PASS    |
| 9548.782        | -53.54        | -36.71      | 16.8        | -13.0       | 23.7        | Horizontal | PK       | PASS    |
| 13368.774       | -66.14        | -44.31      | 21.8        | -13.0       | 31.3        | Horizontal | PK       | PASS    |





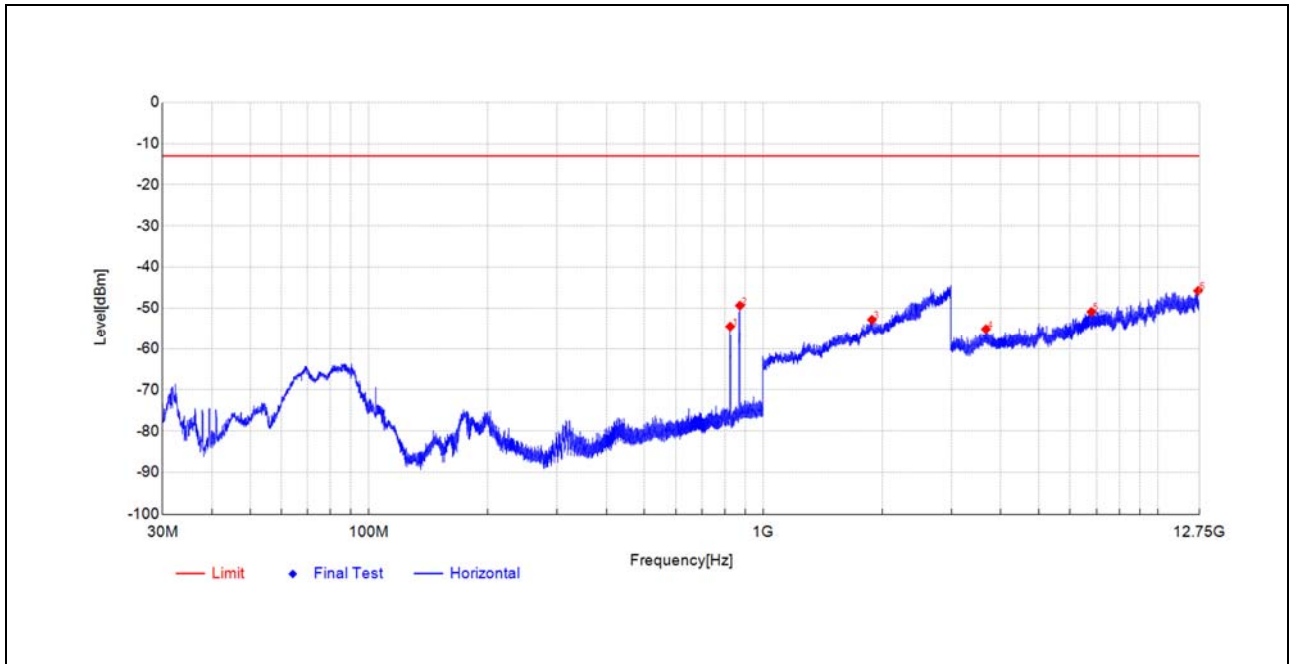
| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 84.9532         | -32.41        | -55.20      | -22.8       | -13.0       | 42.2        | Vertical | PK       | PASS    |
| 323.0032        | -54.05        | -70.10      | -16.1       | -13.0       | 57.1        | Vertical | PK       | PASS    |
| 1909.782        | -42.97        | -38.12      | 4.9         | -           | -           | Vertical | PK       | NA      |
| 5729.5328       | -47.08        | -40.53      | 6.6         | -13.0       | 27.5        | Vertical | PK       | PASS    |
| 9548.782        | -50.57        | -33.40      | 17.2        | -13.0       | 20.4        | Vertical | PK       | PASS    |
| 13368.774       | -59.57        | -37.08      | 22.5        | -13.0       | 24.1        | Vertical | PK       | PASS    |





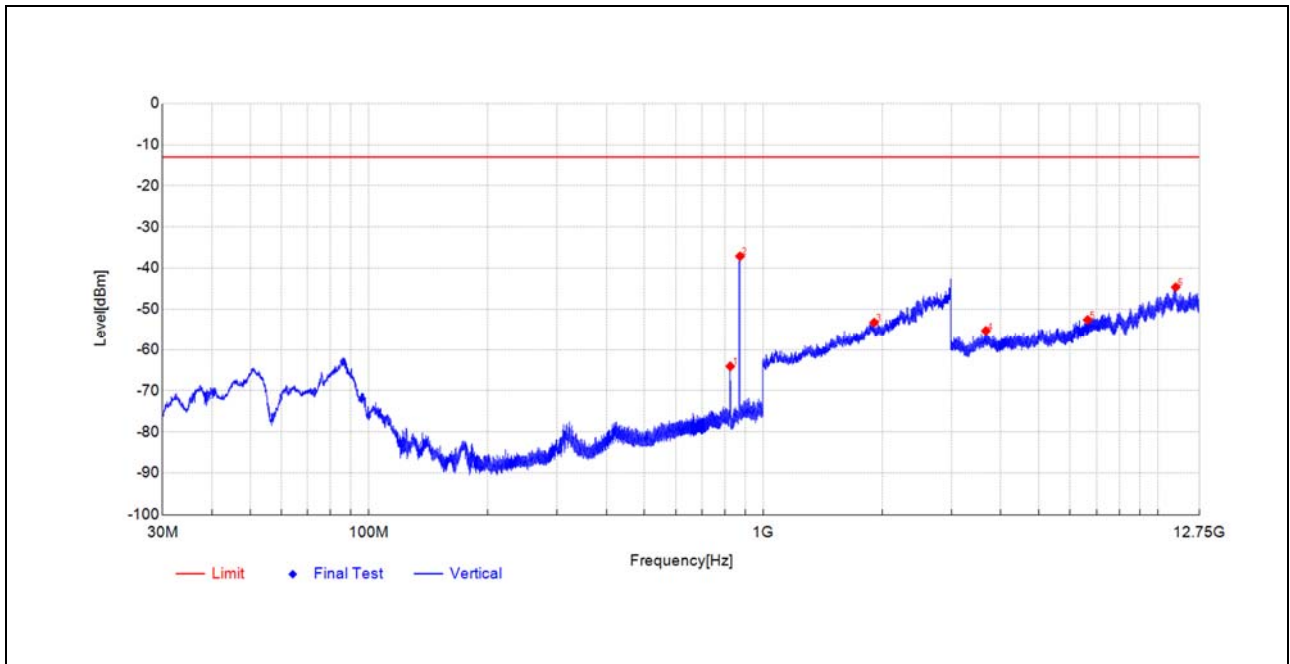
**WCDMA Band V(WCDMA)**

Plot for Low Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 824.9062        | -48.68        | -54.47      | -5.8        | -           | -           | Horizontal | PK       | NA      |
| 872.3416        | -44.53        | -49.36      | -4.8        | -           | -           | Horizontal | PK       | NA      |
| 1886.1772       | -58.66        | -52.82      | 5.8         | -13.0       | 39.8        | Horizontal | PK       | PASS    |
| 3669.371        | -56.86        | -55.12      | 1.7         | -13.0       | 42.1        | Horizontal | PK       | PASS    |
| 6791.4771       | -62.65        | -50.90      | 11.8        | -13.0       | 37.9        | Horizontal | PK       | PASS    |
| 12660.783       | -68.43        | -45.74      | 22.7        | -13.0       | 32.7        | Horizontal | PK       | PASS    |



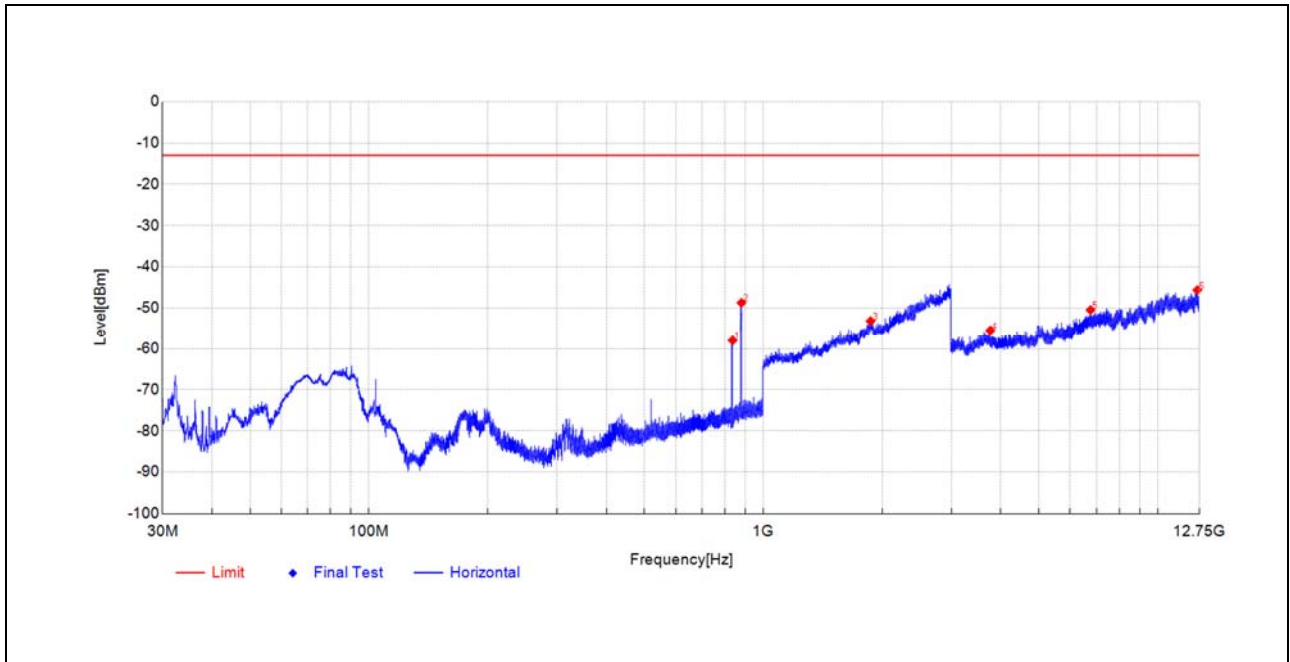


| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 825.0032        | -58.16        | -64.06      | -5.9        | -           | -           | Vertical | PK       | NA      |
| 872.9721        | -32.37        | -37.10      | -4.7        | -           | -           | Vertical | PK       | NA      |
| 1910.182        | -58.86        | -53.22      | 5.6         | -13.0       | 40.2        | Vertical | PK       | PASS    |
| 3667.9084       | -56.94        | -55.26      | 1.7         | -13.0       | 42.3        | Vertical | PK       | PASS    |
| 6642.7821       | -62.70        | -52.56      | 10.1        | -13.0       | 39.6        | Vertical | PK       | PASS    |
| 11110.455       | -66.86        | -44.60      | 22.3        | -13.0       | 31.6        | Vertical | PK       | PASS    |



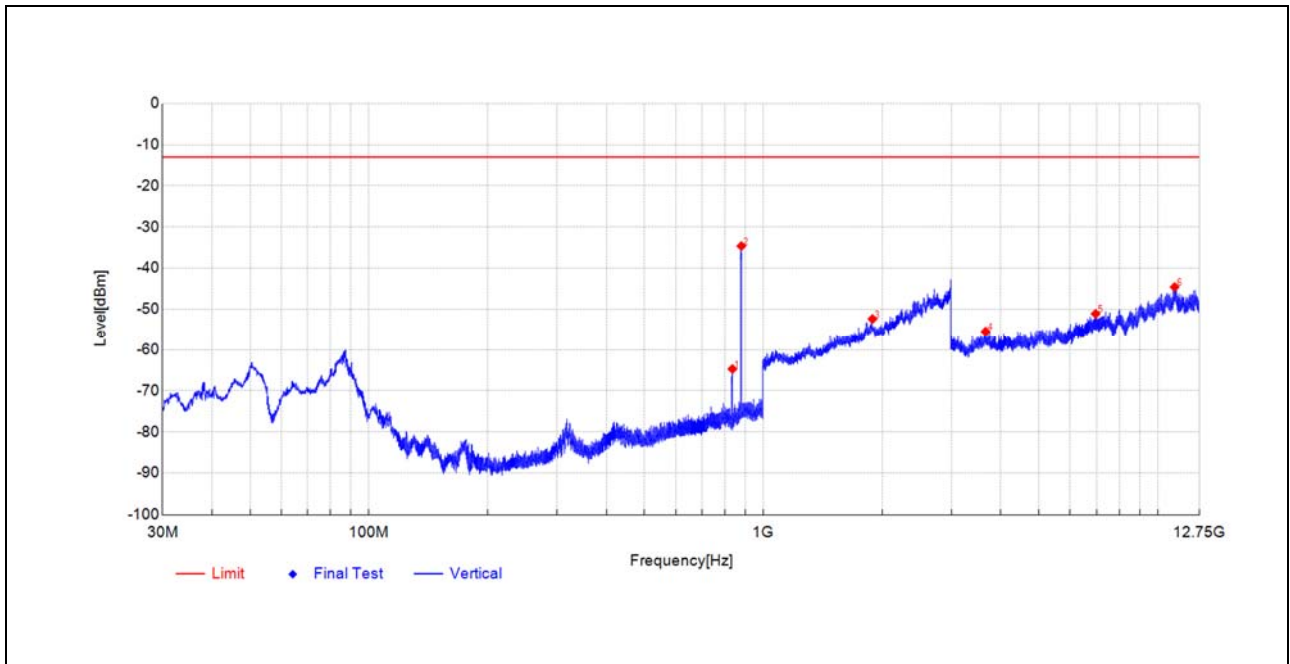


Plot for Mid Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 836.1588        | -52.45        | -57.99      | -5.5        | -           | -           | Horizontal | PK       | NA      |
| 880.296         | -43.94        | -48.69      | -4.8        | -           | -           | Horizontal | PK       | NA      |
| 1870.5741       | -58.83        | -53.14      | 5.7         | -13.0       | 40.1        | Horizontal | PK       | PASS    |
| 3762.9756       | -56.60        | -55.45      | 1.2         | -13.0       | 42.5        | Horizontal | PK       | PASS    |
| 6758.3254       | -62.07        | -50.43      | 11.6        | -13.0       | 37.4        | Horizontal | PK       | PASS    |
| 12601.792       | -68.81        | -45.61      | 23.2        | -13.0       | 32.6        | Horizontal | PK       | PASS    |

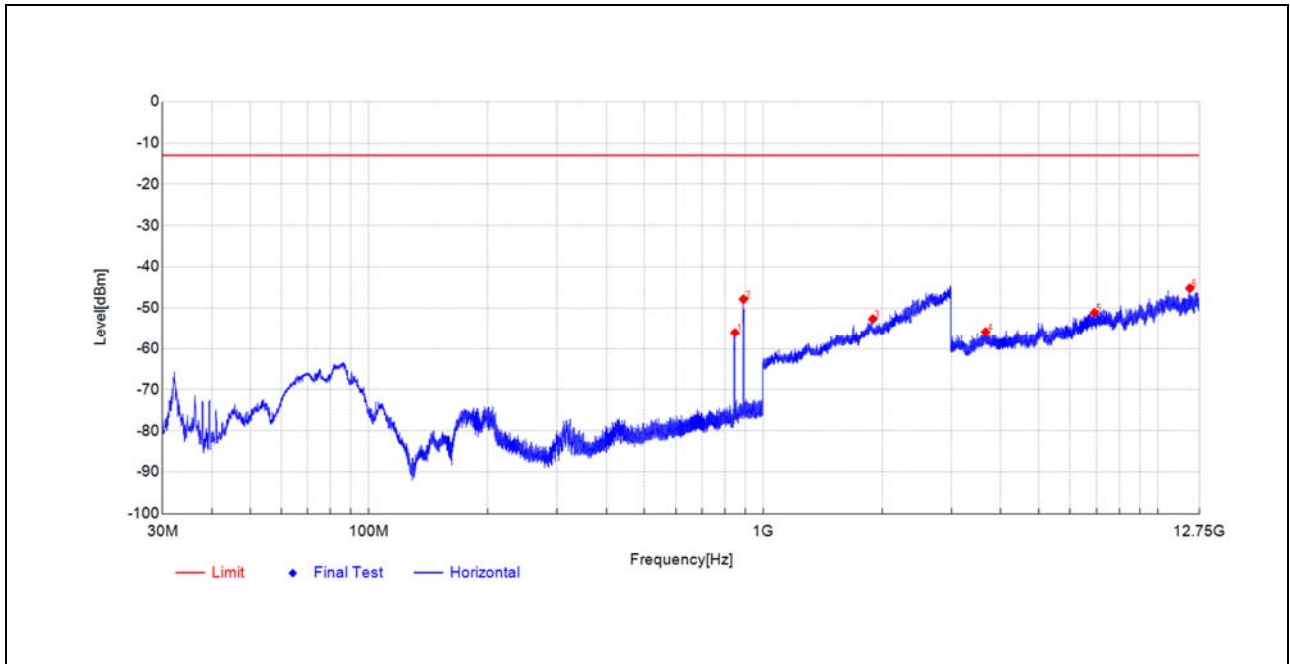




| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 835.3343        | -58.86        | -64.71      | -5.9        | -           | -           | Vertical | PK       | NA      |
| 880.0535        | -30.12        | -34.60      | -4.5        | -           | -           | Vertical | PK       | NA      |
| 1891.7784       | -58.24        | -52.34      | 5.9         | -13.0       | 39.3        | Vertical | PK       | PASS    |
| 3663.0332       | -57.11        | -55.44      | 1.7         | -13.0       | 42.4        | Vertical | PK       | PASS    |
| 6961.6231       | -62.07        | -51.08      | 11.0        | -13.0       | 38.1        | Vertical | PK       | PASS    |
| 11041.714       | -66.72        | -44.56      | 22.2        | -13.0       | 31.6        | Vertical | PK       | PASS    |

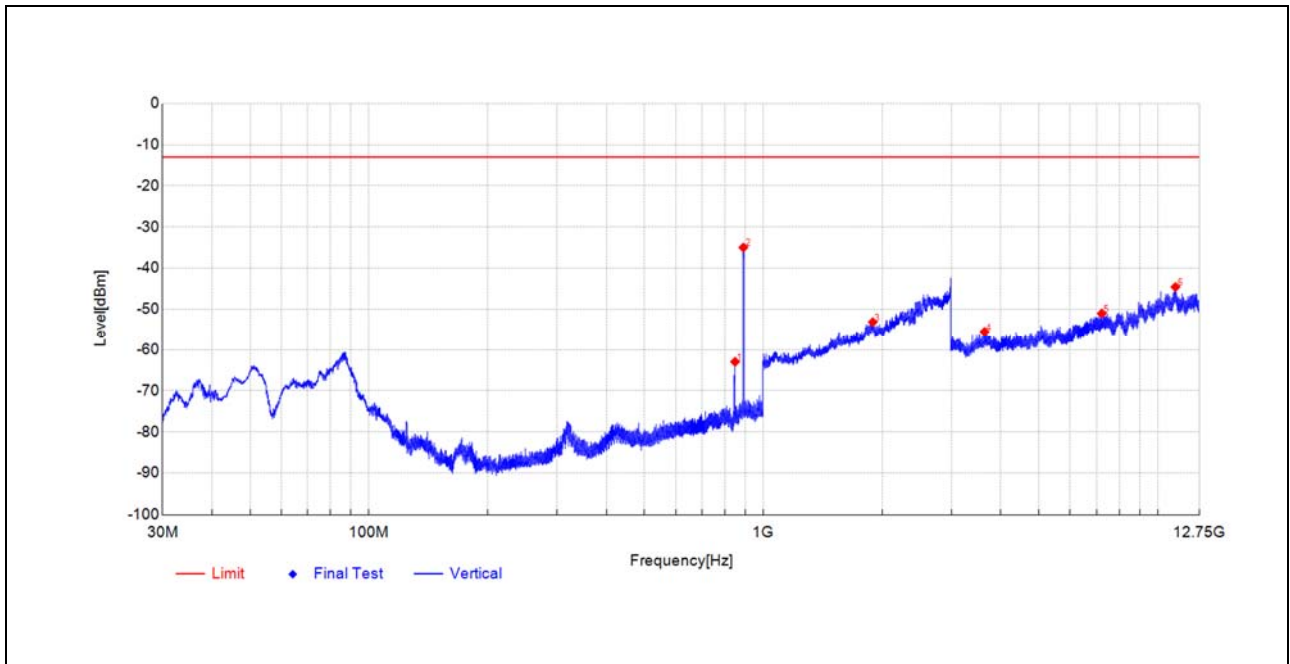


Plot for High Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 847.7024        | -50.81        | -56.03      | -5.2        | -           | -           | Horizontal | PK       | NA      |
| 890.7725        | -43.13        | -47.82      | -4.7        | -           | -           | Horizontal | PK       | NA      |
| 1895.3791       | -58.11        | -52.63      | 5.5         | -13.0       | 39.6        | Horizontal | PK       | PASS    |
| 3661.0831       | -57.55        | -55.82      | 1.7         | -13.0       | 42.8        | Horizontal | PK       | PASS    |
| 6912.3831       | -62.44        | -51.08      | 11.4        | -13.0       | 38.1        | Horizontal | PK       | PASS    |
| 12065.028       | -66.44        | -45.16      | 21.3        | -13.0       | 32.2        | Horizontal | PK       | PASS    |



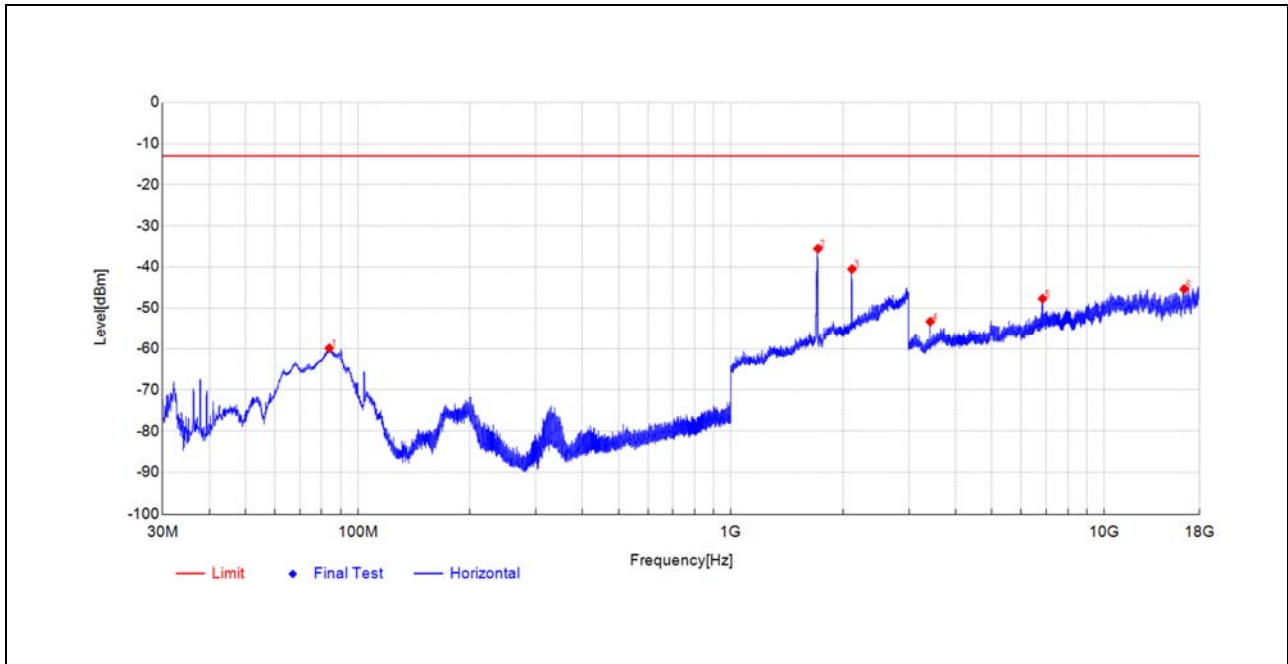


| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 847.9934        | -57.41        | -62.96      | -5.6        | -           | -           | Vertical | PK       | NA      |
| 890.336         | -30.52        | -34.96      | -4.4        | -           | -           | Vertical | PK       | NA      |
| 1894.979        | -58.99        | -53.10      | 5.9         | -13.0       | 40.1        | Vertical | PK       | PASS    |
| 3638.6569       | -57.11        | -55.50      | 1.6         | -13.0       | 42.5        | Vertical | PK       | PASS    |
| 7217.0859       | -62.48        | -50.98      | 11.5        | -13.0       | 38.0        | Vertical | PK       | PASS    |
| 11092.904       | -66.93        | -44.55      | 22.4        | -13.0       | 31.6        | Vertical | PK       | PASS    |



**WCDMA Band IV(WCDMA)**

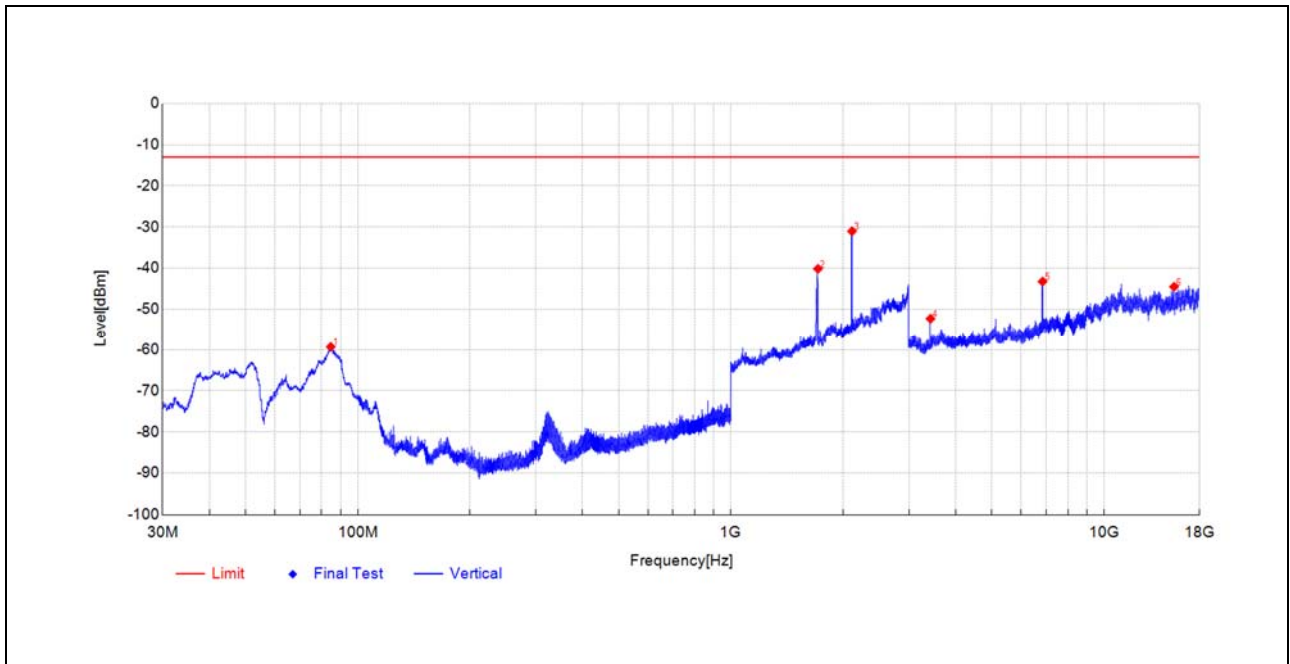
Plot for Low Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 83.8862         | -36.26        | -59.91      | -23.7       | -13.0       | 46.9        | Horizontal | PK       | PASS    |
| 1711.3423       | -38.86        | -35.53      | 3.3         | -           | -           | Horizontal | PK       | NA      |
| 2111.4223       | -46.25        | -40.47      | 5.8         | -           | -           | Horizontal | PK       | NA      |
| 3422.2032       | -53.64        | -53.24      | 0.4         | -13.0       | 40.2        | Horizontal | PK       | PASS    |
| 6846.2739       | -59.17        | -47.66      | 11.5        | -13.0       | 34.7        | Horizontal | PK       | PASS    |
| 16397.215       | -71.05        | -45.33      | 25.7        | -13.0       | 32.3        | Horizontal | PK       | PASS    |



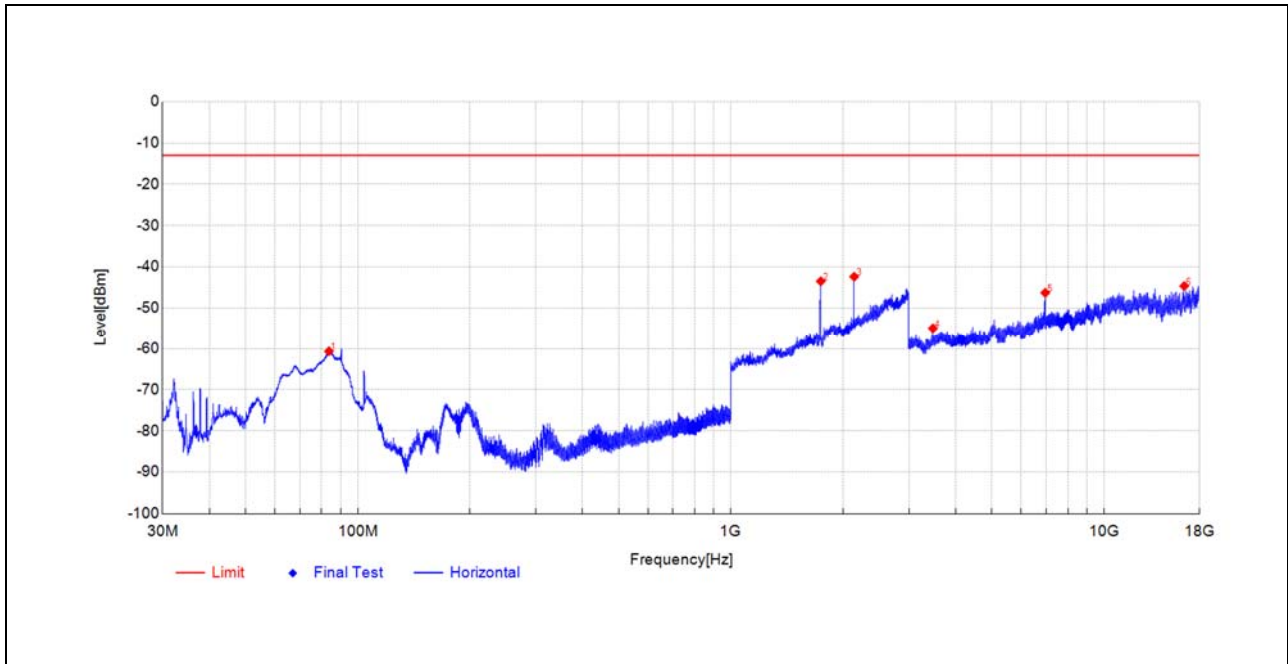




| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 84.6622         | -36.54        | -59.32      | -22.8       | -13.0       | 46.3        | Vertical | PK       | PASS    |
| 1711.3423       | -43.61        | -40.13      | 3.5         | -           | -           | Vertical | PK       | NA      |
| 2111.4223       | -36.57        | -31.00      | 5.6         | -           | -           | Vertical | PK       | NA      |
| 3426.9181       | -52.85        | -52.26      | 0.6         | -13.0       | 39.3        | Vertical | PK       | PASS    |
| 6844.8338       | -53.98        | -43.23      | 10.8        | -13.0       | 30.2        | Vertical | PK       | PASS    |
| 15399.256       | -70.17        | -44.50      | 25.7        | -13.0       | 31.5        | Vertical | PK       | PASS    |

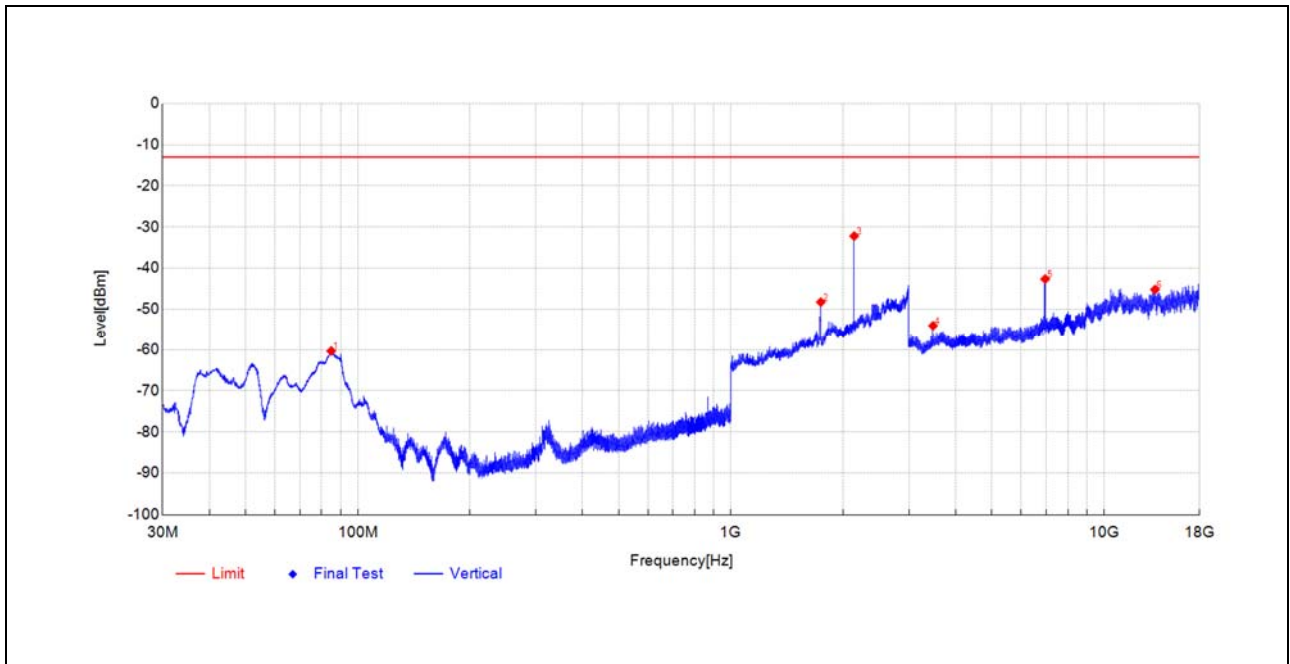


Plot for Mid Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 83.7407         | -36.99        | -60.66      | -23.7       | -13.0       | 47.7        | Horizontal | PK       | PASS    |
| 1741.3483       | -46.45        | -43.47      | 3.0         | -           | -           | Horizontal | PK       | NA      |
| 2139.828        | -48.38        | -42.36      | 6.0         | -           | -           | Horizontal | PK       | NA      |
| 3478.3541       | -55.76        | -54.90      | 0.9         | -13.0       | 41.9        | Horizontal | PK       | PASS    |
| 6957.6383       | -57.79        | -46.26      | 11.5        | -13.0       | 33.3        | Horizontal | PK       | PASS    |
| 16401.056       | -70.37        | -44.63      | 25.7        | -13.0       | 31.6        | Horizontal | PK       | PASS    |

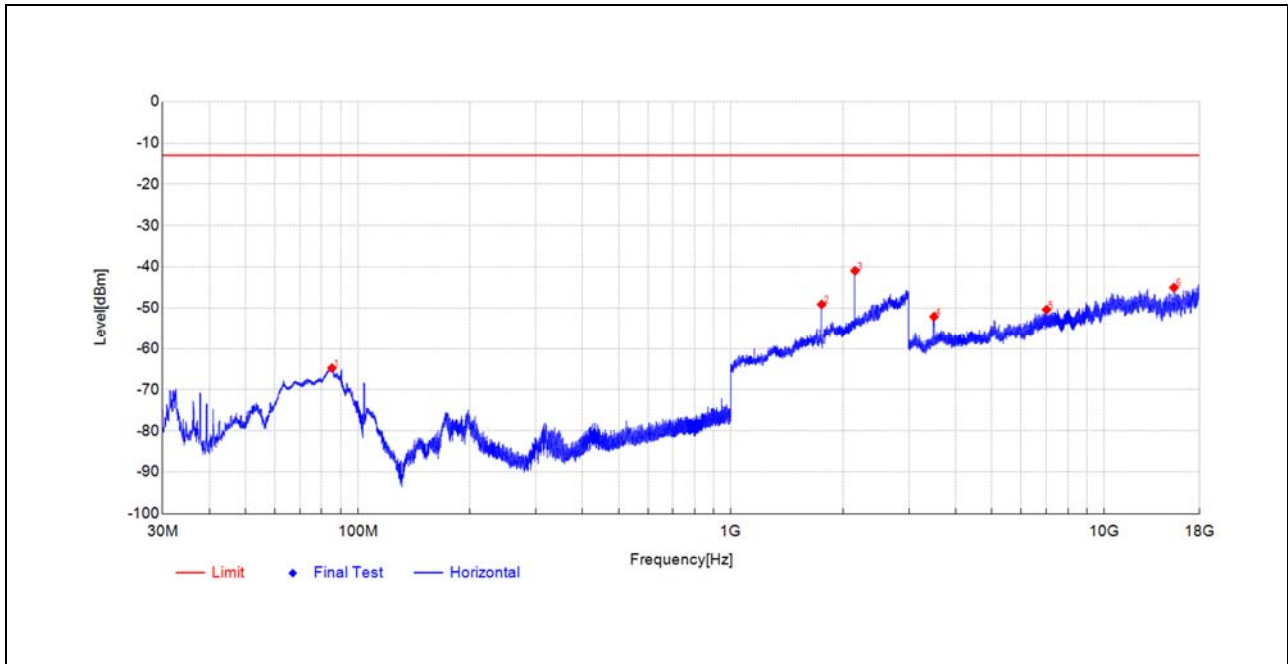




| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 84.9047         | -37.56        | -60.32      | -22.8       | -13.0       | 47.3        | Vertical | PK       | PASS    |
| 1741.3483       | -51.66        | -48.23      | 3.4         | -           | -           | Vertical | PK       | NA      |
| 2139.828        | -38.08        | -32.19      | 5.9         | -           | -           | Vertical | PK       | NA      |
| 3481.3545       | -55.12        | -54.00      | 1.1         | -13.0       | 41.0        | Vertical | PK       | PASS    |
| 6956.6783       | -53.62        | -42.63      | 11.0        | -13.0       | 29.6        | Vertical | PK       | PASS    |
| 13695.667       | -70.03        | -45.19      | 24.8        | -13.0       | 32.2        | Vertical | PK       | PASS    |

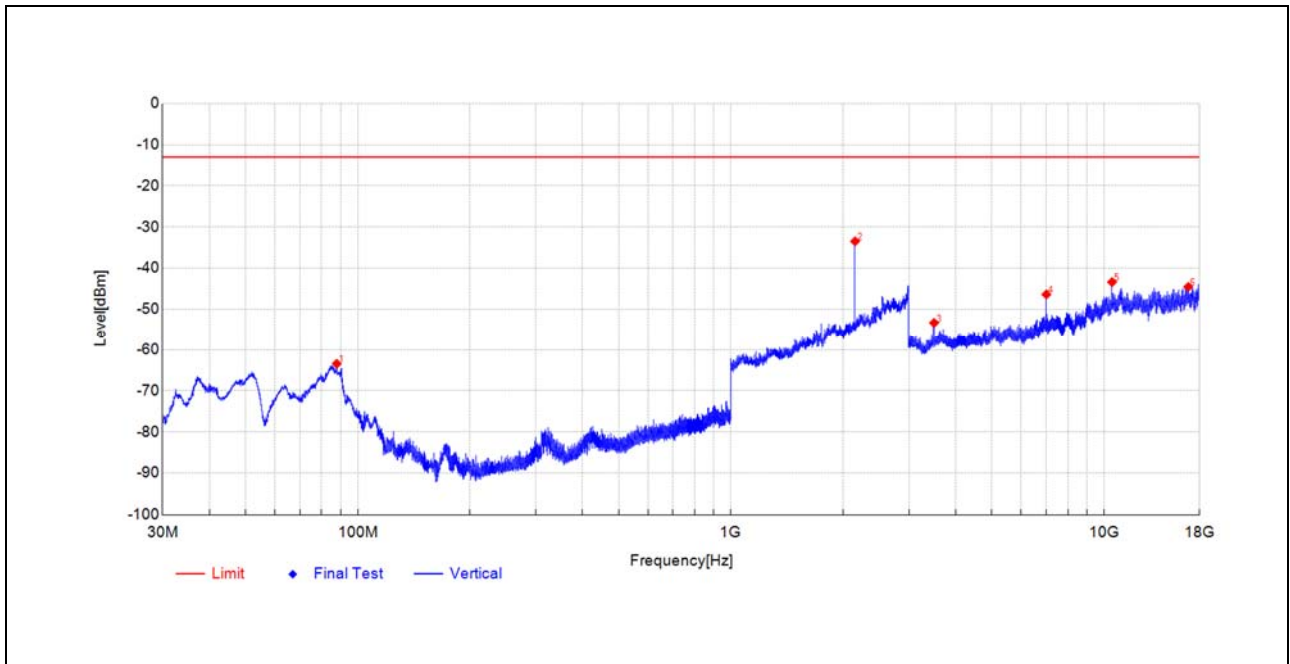


### Plot for High Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 85.2928         | -41.15        | -64.74      | -23.6       | -13.0       | 51.7        | Horizontal | PK       | PASS    |
| 1750.9502       | -52.03        | -49.11      | 2.9         | -           | -           | Horizontal | PK       | NA      |
| 2151.4303       | -46.94        | -40.92      | 6.0         | -           | -           | Horizontal | PK       | NA      |
| 3502.7861       | -53.13        | -52.06      | 1.1         | -13.0       | 39.1        | Horizontal | PK       | PASS    |
| 7014.2806       | -61.93        | -50.36      | 11.6        | -13.0       | 37.4        | Horizontal | PK       | PASS    |
| 15398.295       | -69.26        | -45.00      | 24.3        | -13.0       | 32.0        | Horizontal | PK       | PASS    |



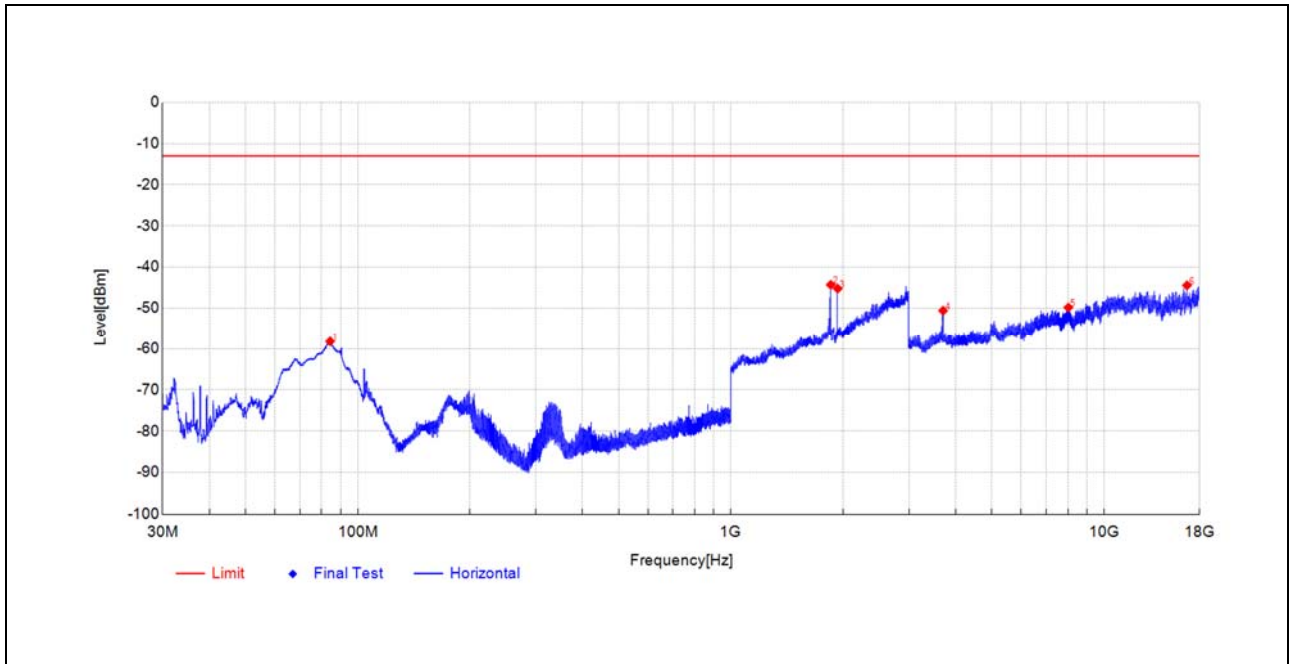


| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 87.8149         | -40.94        | -63.44      | -22.5       | -13.0       | 50.4        | Vertical | PK       | PASS    |
| 2151.8304       | -39.17        | -33.46      | 5.7         | -           | -           | Vertical | PK       | NA      |
| 3503.6434       | -54.61        | -53.30      | 1.3         | -13.0       | 40.3        | Vertical | PK       | PASS    |
| 7006.1202       | -57.44        | -46.36      | 11.1        | -13.0       | 33.4        | Vertical | PK       | PASS    |
| 10507.860       | -62.99        | -43.37      | 19.6        | -13.0       | 30.4        | Vertical | PK       | PASS    |
| 16803.792       | -70.30        | -44.53      | 25.8        | -13.0       | 31.5        | Vertical | PK       | PASS    |



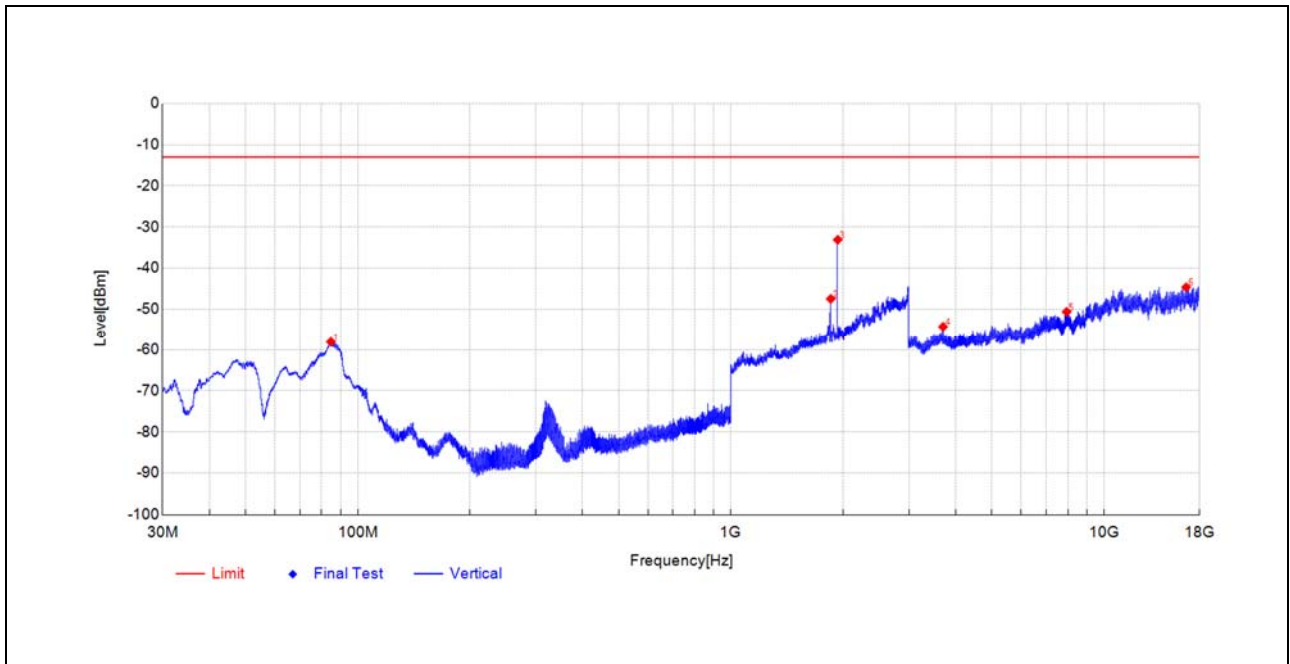
# WCDMA Band II(WCDMA)

Plot for Low Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 84.3227         | -34.56        | -58.23      | -23.7       | -13.0       | 45.2        | Horizontal | PK       | PASS    |
| 1851.7704       | -48.58        | -44.28      | 4.3         | -           | -           | Horizontal | PK       | NA      |
| 1932.1864       | -49.18        | -45.22      | 4.0         | -           | -           | Horizontal | PK       | NA      |
| 3702.9576       | -52.34        | -50.59      | 1.8         | -13.0       | 37.6        | Horizontal | PK       | PASS    |
| 8023.2809       | -63.19        | -49.80      | 13.4        | -13.0       | 36.8        | Horizontal | PK       | PASS    |
| 16680.907       | -69.28        | -44.42      | 24.9        | -13.0       | 31.4        | Horizontal | PK       | PASS    |



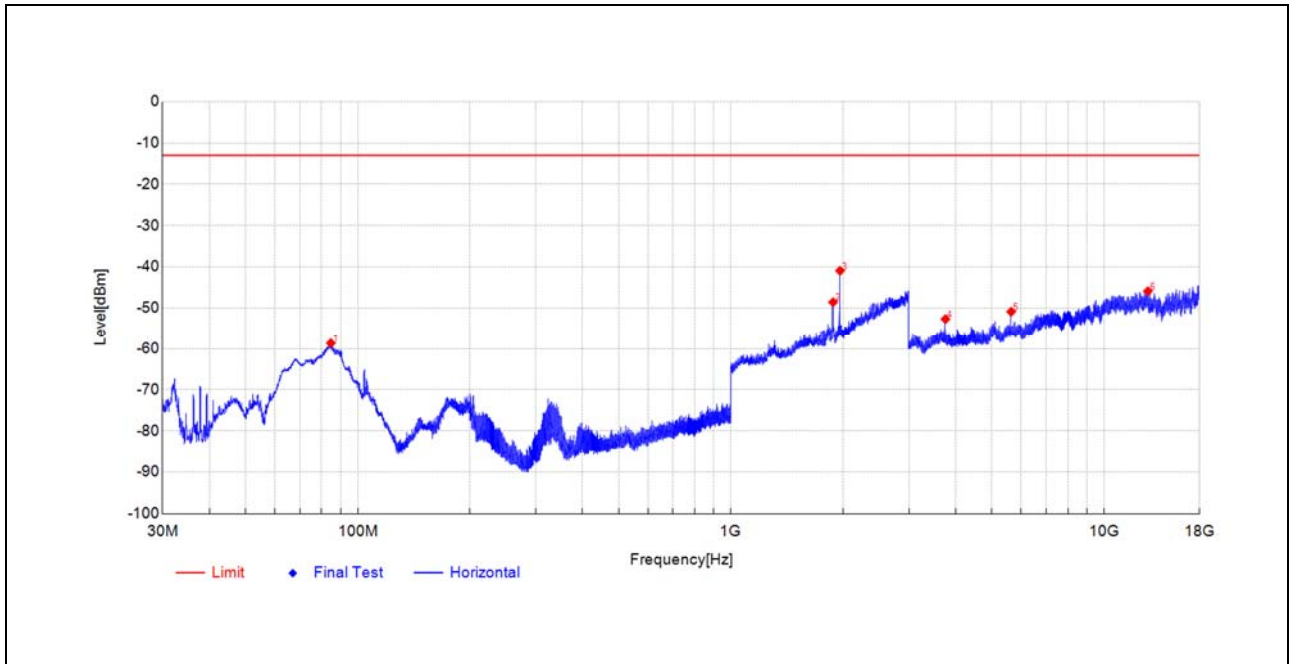


| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 84.7592         | -35.29        | -58.09      | -22.8       | -13.0       | 45.1        | Vertical | PK       | PASS    |
| 1851.7704       | -51.74        | -47.45      | 4.3         | -           | -           | Vertical | PK       | NA      |
| 1933.3867       | -36.96        | -33.08      | 3.9         | -           | -           | Vertical | PK       | NA      |
| 3703.3862       | -55.97        | -54.24      | 1.7         | -13.0       | 41.2        | Vertical | PK       | PASS    |
| 7937.8375       | -63.20        | -50.61      | 12.6        | -13.0       | 37.6        | Vertical | PK       | PASS    |
| 16599.784       | -70.56        | -44.61      | 26.0        | -13.0       | 31.6        | Vertical | PK       | PASS    |



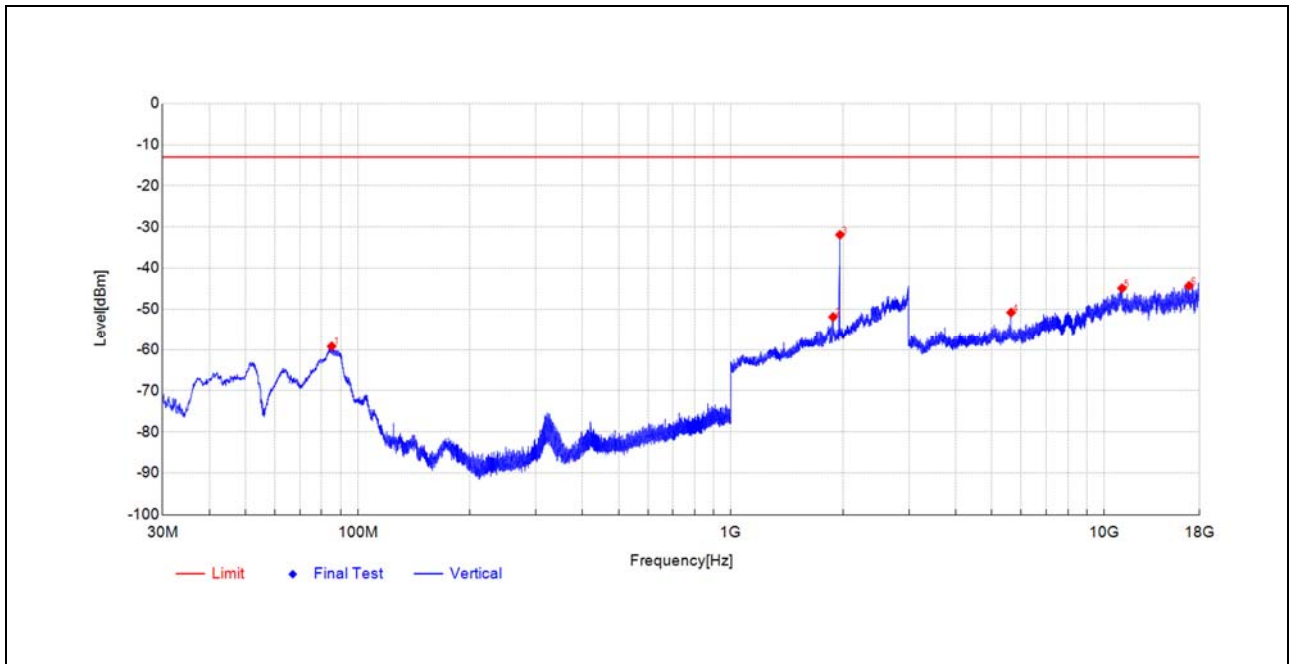


Plot for Mid Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 84.7107         | -35.00        | -58.65      | -23.7       | -13.0       | 45.7        | Horizontal | PK       | PASS    |
| 1878.5757       | -53.77        | -48.54      | 5.2         | -           | -           | Horizontal | PK       | NA      |
| 1961.3923       | -45.43        | -40.92      | 4.5         | -           | -           | Horizontal | PK       | NA      |
| 3758.2512       | -53.84        | -52.64      | 1.2         | -13.0       | 39.6        | Horizontal | PK       | PASS    |
| 5637.3768       | -57.92        | -50.85      | 7.1         | -13.0       | 37.9        | Horizontal | PK       | PASS    |
| 13106.684       | -69.91        | -45.88      | 24.0        | -13.0       | 32.9        | Horizontal | PK       | PASS    |

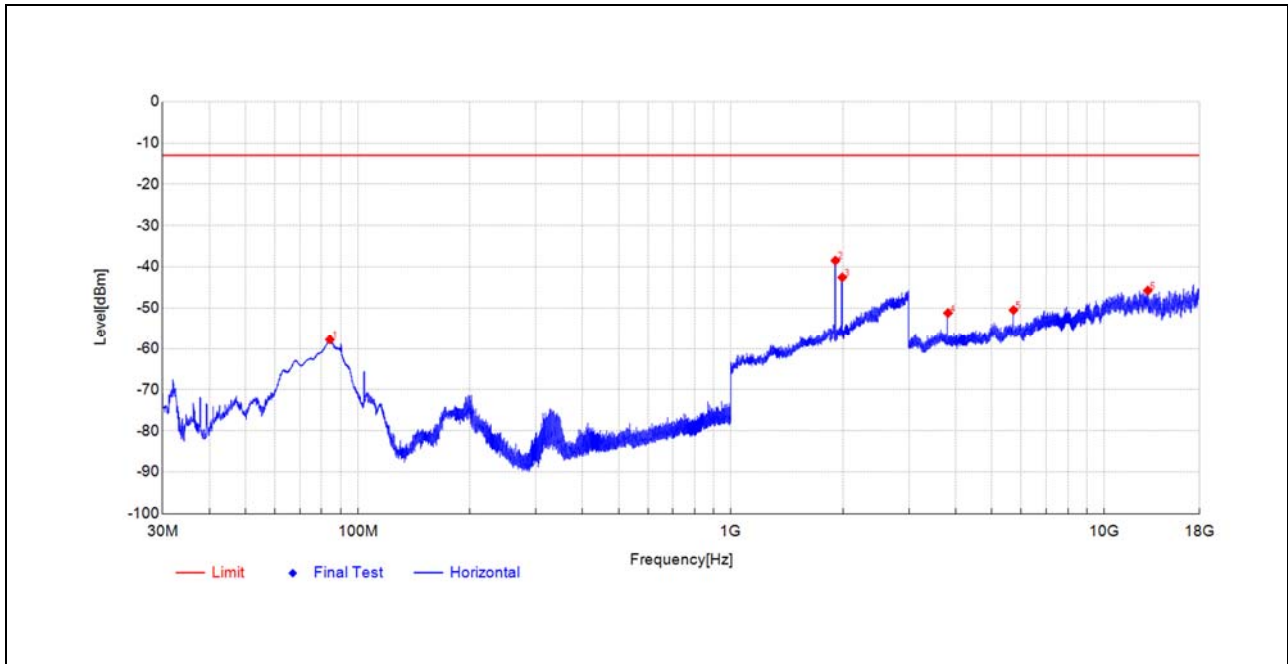




| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 85.1473         | -36.41        | -59.18      | -22.8       | -13.0       | 46.2        | Vertical | PK       | PASS    |
| 1878.5757       | -56.91        | -51.85      | 5.1         | -           | -           | Vertical | PK       | NA      |
| 1960.9922       | -36.11        | -31.88      | 4.2         | -           | -           | Vertical | PK       | NA      |
| 5636.0909       | -57.47        | -50.77      | 6.7         | -13.0       | 37.8        | Vertical | PK       | PASS    |
| 11177.487       | -66.40        | -44.87      | 21.5        | -13.0       | 31.9        | Vertical | PK       | PASS    |
| 16886.355       | -70.61        | -44.29      | 26.3        | -13.0       | 31.3        | Vertical | PK       | PASS    |

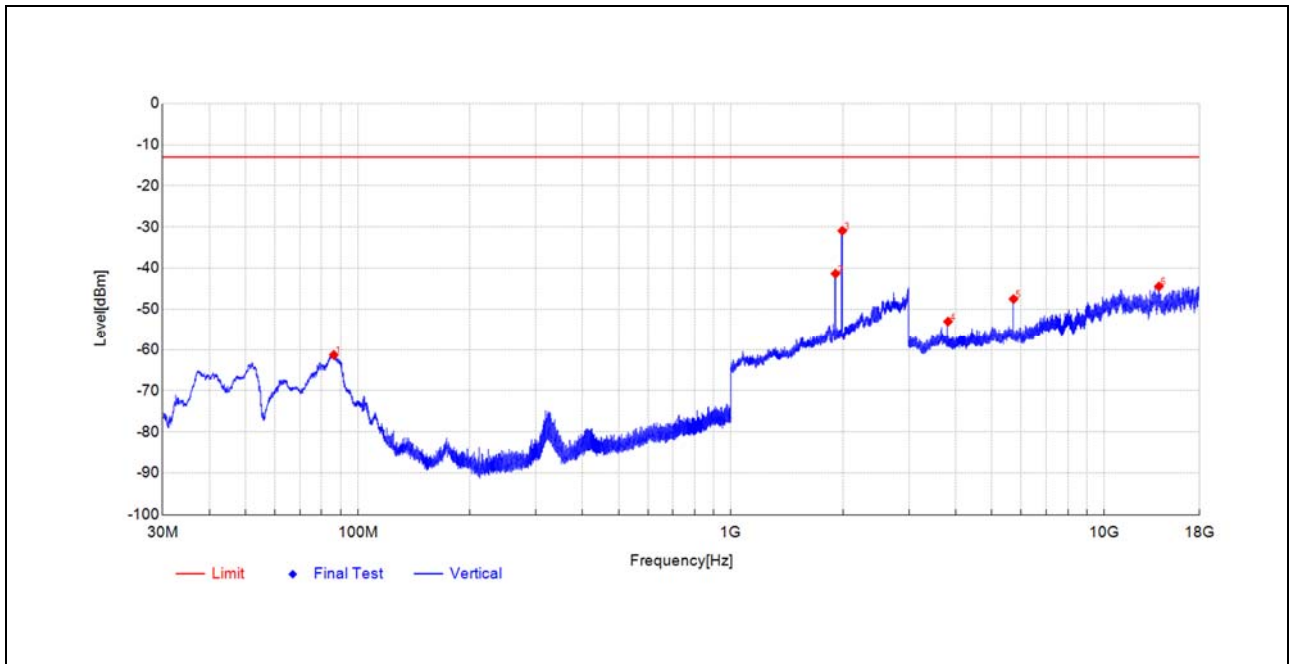


### Plot for High Channel



| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity   | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|------------|----------|---------|
| 84.2257         | -34.10        | -57.77      | -23.7       | -13.0       | 44.8        | Horizontal | PK       | PASS    |
| 1906.5813       | -42.75        | -38.47      | 4.3         | -           | -           | Horizontal | PK       | NA      |
| 1987.7976       | -46.92        | -42.54      | 4.4         | -           | -           | Horizontal | PK       | NA      |
| 3817.8311       | -52.04        | -51.17      | 0.9         | -13.0       | 38.2        | Horizontal | PK       | PASS    |
| 5718.817        | -57.90        | -50.46      | 7.4         | -13.0       | 37.5        | Horizontal | PK       | PASS    |
| 13100.924       | -69.90        | -45.73      | 24.2        | -13.0       | 32.7        | Horizontal | PK       | PASS    |





| Frequency [MHz] | Reading [dBm] | Level [dBm] | Factor [dB] | Limit [dBm] | Margin [dB] | Polarity | Detector | Verdict |
|-----------------|---------------|-------------|-------------|-------------|-------------|----------|----------|---------|
| 86.2628         | -38.62        | -61.29      | -22.7       | -13.0       | 48.3        | Vertical | PK       | PASS    |
| 1906.9814       | -46.32        | -41.33      | 5.0         | -           | -           | Vertical | PK       | NA      |
| 1988.5977       | -35.37        | -30.91      | 4.5         | -           | -           | Vertical | PK       | NA      |
| 3817.8311       | -53.67        | -52.97      | 0.7         | -13.0       | 40.0        | Vertical | PK       | PASS    |
| 5718.817        | -54.04        | -47.48      | 6.6         | -13.0       | 34.5        | Vertical | PK       | PASS    |
| 14032.641       | -69.03        | -44.41      | 24.6        | -13.0       | 31.4        | Vertical | PK       | PASS    |





## Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

| Test Items                  | Uncertainty         |
|-----------------------------|---------------------|
| Output Power                | $\pm 2.22\text{dB}$ |
| Bandwidth                   | $\pm 5\%$           |
| Conducted Spurious Emission | $\pm 2.77\text{dB}$ |
| Radiated Emission           | $\pm 2.95\text{dB}$ |

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .





## Annex B Testing Laboratory Information

### 1. Identification of the Responsible Testing Laboratory

|                            |                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Laboratory Name:</b>    | Shenzhen Morlab Communications Technology Co., Ltd.                                                                              |
| <b>Laboratory Address:</b> | FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China |
| <b>Telephone:</b>          | +86 755 36698555                                                                                                                 |
| <b>Facsimile:</b>          | +86 755 36698525                                                                                                                 |

### 2. Identification of the Responsible Testing Location

|                 |                                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Name:</b>    | Shenzhen Morlab Communications Technology Co., Ltd.                                                                              |
| <b>Address:</b> | FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China |

### 3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.





#### 4. Test Equipment Utilized

##### 4.1 Conducted Test Equipment

| Equipment                  | Serial No.             | Type            | Manufacturer | Cal. Date  | Due Date   |
|----------------------------|------------------------|-----------------|--------------|------------|------------|
| EXA Signal Analyzer        | MY51511149             | N9020A          | Agilent      | 2025.05.15 | 2026.05.14 |
| Communication Test Station | 6200995016             | MT8820C         | Anritsu      | 2024.09.11 | 2025.09.10 |
| Temperature Chamber        | S022177101<br>00089002 | KMT-36LF<br>1A0 | KOMEG        | 2024.09.11 | 2025.09.10 |

##### 4.2 List of Software Used

| Description | Manufacturer | Software Version |
|-------------|--------------|------------------|
| JS36-RSE    | Tonscend     | 5.0.0            |

##### 4.3 Radiated Test Equipment

| Equipment                   | Serial No.  | Type                | Manufacturer | Cal. Date  | Due Date   |
|-----------------------------|-------------|---------------------|--------------|------------|------------|
| System Simulator            | 152038      | CMW500              | R&S          | 2024.09.11 | 2025.09.10 |
| Receiver                    | MY56060145  | N9020A              | Agilent      | 2025.05.13 | 2026.05.12 |
| Test Antenna - Bi-Log       | 9163-519    | VULB 9163           | Schwarzbeck  | 2025.06.22 | 2026.06.21 |
| Test Antenna - Horn         | 9120D-963   | BBHA 9120D          | Schwarzbeck  | 2025.05.16 | 2026.05.15 |
| RF Coaxial Cable (DC-18GHz) | MRE001      | PE330               | Pasternack   | 2025.05.13 | 2026.05.12 |
| RF Coaxial Cable (DC-18GHz) | MRE002      | CLU18               | Pasternack   | 2025.05.13 | 2026.05.12 |
| RF Coaxial Cable (DC-18GHz) | MRE003      | CLU18               | Pasternack   | 2025.05.13 | 2026.05.12 |
| RF Coaxial Cable (DC-40GHz) | 22290045    | QA360-40-K<br>K-0.5 | Qualwave     | 2024.09.11 | 2025.09.10 |
| RF Coaxial Cable (DC-40GHz) | 22290046    | QA360-40-K<br>KF-2  | Qualwave     | 2024.09.11 | 2025.09.10 |
| RF Coaxial Cable (DC-18GHz) | 22120181    | QA500-18-N<br>N-5   | Qualwave     | 2024.09.11 | 2025.09.10 |
| Preamplifier (10MHz-6GHz)   | 46732       | S10M100L38<br>02    | LUCIX CORP.  | 2025.05.13 | 2026.05.12 |
| Preamplifier                | 61171/61172 | S020180L32          | LUCIX CORP.  | 2025.05.13 | 2026.05.12 |







|                               |         |                     |            |            |            |
|-------------------------------|---------|---------------------|------------|------------|------------|
| (2GHz-18GHz)                  |         | 03                  |            |            |            |
| Preamplifier<br>(18GHz-40GHz) | DS77209 | DCLNA0118-<br>40C-S | Decentest  | 2025.05.13 | 2026.05.12 |
| Notch Filter                  | N/A     | WRCG-GSM<br>850     | Wainwright | N/A        | N/A        |
| Notch Filter                  | N/A     | WRCG-GSM<br>1900    | Wainwright | N/A        | N/A        |
| Notch Filter                  | N/A     | WRCGV-W<br>Band V   | Wainwright | N/A        | N/A        |
| Notch Filter                  | N/A     | WRCGV-W<br>Band II  | Wainwright | N/A        | N/A        |
| Notch Filter                  | N/A     | WRCGV-W<br>Band IV  | Wainwright | N/A        | N/A        |
| Anechoic<br>Chamber           | N/A     | 9m*6m*6m            | CRT        | 2025.04.19 | 2028.04.18 |
| Anechoic<br>Chamber           | N/A     | 9m*6m*6m            | CRT        | 2022.11.30 | 2025.11.29 |

\_\_\_\_\_ END OF REPORT \_\_\_\_\_

