



BUREAU VERITAS

Test Report No.: RF190124W002-4



ACCREDITED

Certificate # 3939.01

FCC TEST REPORT (PART 24)



| | |
|------------|--|
| Applicant: | Corporativo Lanix S.A. de C.V. |
| Address: | Carretera Internacional Hermosillo-Nogales Km 8.5, Hermosillo Sonora, Mexico |

| | |
|---------------------------|--|
| Manufacturer or Supplier: | Corporativo Lanix S.A. de C.V. |
| Address: | Carretera Internacional Hermosillo-Nogales Km 8.5, Hermosillo Sonora, Mexico |
| Product: | Smartphone |
| Brand Name: | LANIX |
| Model Name: | Ilium M7s |
| FCC ID: | ZC4M7S |
| Date of tests: | Jan. 25, 2019 ~ Feb. 20, 2019 |

The tests have been carried out according to the requirements of the following standard:

- FCC PART 24, Subpart E
- ANSI C63.26-2015
- ANSI/TIA/EIA-603-D
- ANSI/TIA/EIA-603-E

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| | |
|---|---|
| Prepared by Roger Li Engineer / Mobile Department | Approved by Sam Tung Manager / Mobile Department |
|  |  |
| Date: Feb. 21, 2019 | Date: Feb. 21, 2019 |

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BUREAU
VERITAS

Test Report No.: RF190124W002-4

RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|----------------|-------------------|---------------|
| RF190124W002-4 | Original release | Feb. 21, 2019 |



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 24 & Part 2 | | | |
|--|-------------------------------------|--------|--|
| STANDARD SECTION | TEST TYPE | RESULT | REMARK |
| 2.1046 24.232 | Equivalent Isotropic Radiated Power | PASS | Meet the requirement of limit. |
| 2.1055 24.235 | Frequency Stability | PASS | Meet the requirement of limit. |
| 2.1049 24.238(b) | Occupied Bandwidth | PASS | Meet the requirement of limit. |
| 24.232(d) | Peak to average ratio | PASS | Meet the requirement of limit. |
| 24.238(b) | Band Edge Measurements | PASS | Meet the requirement of limit. |
| 2.1051 24.238 | Conducted Spurious Emissions | PASS | Meet the requirement of limit. |
| 2.1053 24.238 | Radiated Spurious Emissions | PASS | Meet the requirement of limit. Minimum passing margin is -23.12dB at 39.650MHz. |

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | UNCERTAINTY |
|----------------------------|-------------|
| Effective Radiated Power | ±4.48dB |
| Frequency Stability | ±39.27Hz |
| Radiated emissions | ±4.48dB |
| Conducted emissions | ±2 dB |
| Occupied Channel Bandwidth | ±21.7KHz |
| Band Edge Measurements | ±4.48dB |
| Peak to average ratio | ±0.76dB |

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



1.2 TEST SITE AND INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---------------------------------------|--------------|-------------------------------------|---------------------------------|-------------|-------------|
| MXE EMI Receiver | KEYSIGHT | N9038A-544 | MY54450026 | Mar. 16,18 | Mar. 15,19 |
| EXA Signal Analyzer | KEYSIGHT | N9010A-526 | MY54510322 | Mar. 16,18 | Mar. 15,19 |
| Bilog Antenna 1 | ETS-LINDGREN | 3143B | 00161964 | Mar. 15,18 | Mar. 14,19 |
| Bilog Antenna 2 | ETS-LINDGREN | 3143B | 00161965 | Mar. 15,18 | Mar. 14,19 |
| Horn Antenna 1 | ETS-LINDGREN | 3117 | 00168728 | Mar. 15,18 | Mar. 14,19 |
| Horn Antenna 2 | ETS-LINDGREN | 3117 | 00168692 | Nov. 30, 18 | Nov. 29, 19 |
| Loop antenna | Daze | ZN30900A | 0708 | Oct. 23,18 | Oct. 22, 19 |
| Horn Antenna (18GHz-40GHz) | N/A | QWH-SL-18-40 -K-SG/QMS-00 361 | 15433 | Nov. 21, 18 | Nov. 20, 19 |
| Radio Communication Analyzer | ANRITSU | MT8820C | 6201465426 | Mar. 02,18 | Mar. 01,19 |
| Signal Pre-Amplifier | EMSI | EMC 9135 | 980249 | Jul. 09,18 | Jul. 08,19 |
| Signal Pre-Amplifier | EMSI | EMC 012645B | 980257 | Jul. 09,18 | Jul. 08,19 |
| Signal Pre-Amplifier | EMSI | EMC 184045B | 980259 | Jul. 09,18 | Jul. 08,19 |
| 3m Semi-anechoic Chamber | ETS-LINDGREN | 9m*6m*6m | Euroshieldpn- CT0001143-1216 | Apr. 21,18 | Apr. 20,19 |
| Test Software | E3 | V 9.160323 | N/A | N/A | N/A |
| Test Software | ADT | ADT_Radiated V7.6.15.9.2 | N/A | N/A | N/A |
| 10dB Attenuator | JFW/USA | 50HF-010-SM A | 1505 | Jul. 09,18 | Jul. 08,19 |
| Power Meter | Anritsu | ML2495A | 1506002 | Mar. 02,18 | Mar. 01,19 |
| Power Sensor | Anritsu | MA2411B | 1339352 | Mar. 16,18 | Mar. 15,19 |
| Humid & Temp Programmable Tester | Juyi | ITH-120-45-CP -AR | IAA1504-001 | Jul. 09,18 | Jul. 08,19 |
| MXG Analog Microvave Signal Generator | KEYSIGHT | N5183A | MY50143024 | Mar. 13,18 | Mar. 12,19 |

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| | | |
|----------------------------|---|-----------------------|
| PRODUCT | Smartphone | |
| BRAND NAME | LANIX | |
| MODEL NAME | Ilium M7s | |
| POWER SUPPLY | 5.0Vdc (adapter or host equipment) 3.85Vdc (Li-ion, battery) | |
| MODULATION TYPE | GSM, GPRS: GMSK WCDMA : BPSK | |
| FREQUENCY RANGE | GSM, GPRS | 1850.2MHz ~ 1909.8MHz |
| | WCDMA | BPSK,QPSK |
| MAX. EIRP POWER | GSM | 815mW |
| | WCDMA | 176mW |
| EMISSION DESIGNATOR | GSM | 245KGXW |
| | WCDMA | 4M16F9W |
| ANTENNA TYPE | Fixed Internal antenna with 1dBi gain | |
| HW VERSION | V1.0 | |
| SW VERSION | Ilium M7s_SW_01_V01 | |
| I/O PORTS | Refer to user's manual | |
| CABLE SUPPLIED | USB cable: non-shielded, detachable, 1.0meter Earphone cable: non-shielded, detachable, 1.2meter | |

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT was powered by the following adapter:

| ADAPTER | |
|----------------|--------------------|
| BRAND: | LANIX |
| MODEL: | Ilium M7s-C |
| INPUT: | AC 100-240V, 150mA |
| OUTPUT: | DC 5V, 1000mA |

- The EUT matched the following USB cable and Earphone:

| USB CABLE | |
|---------------------|-----------|
| BRAND: | LANIX |
| MODEL: | Ilium M7s |
| SIGNAL LINE: | 1.0 METER |

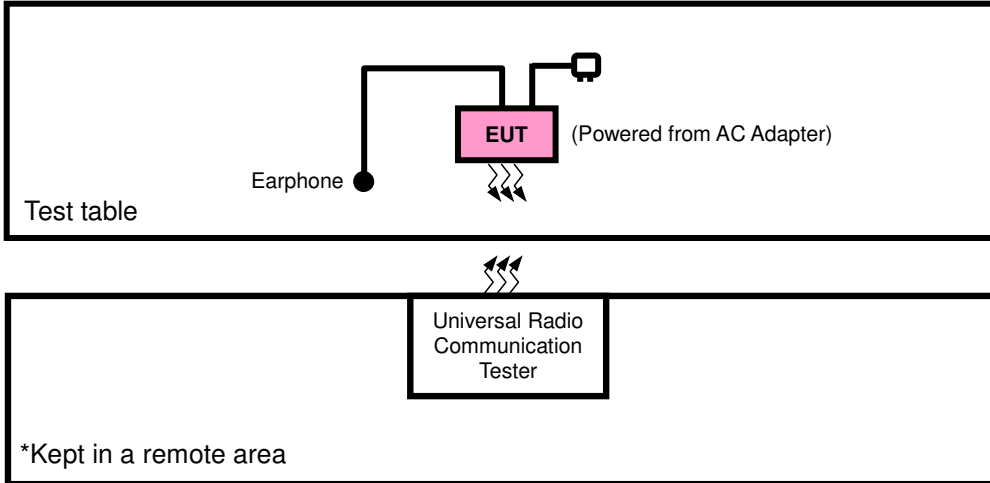
| EARPHONE | |
|---------------------|-----------|
| BRAND: | LANIX |
| MODEL: | Ilium M7s |
| SIGNAL LINE: | 1.2 METER |

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

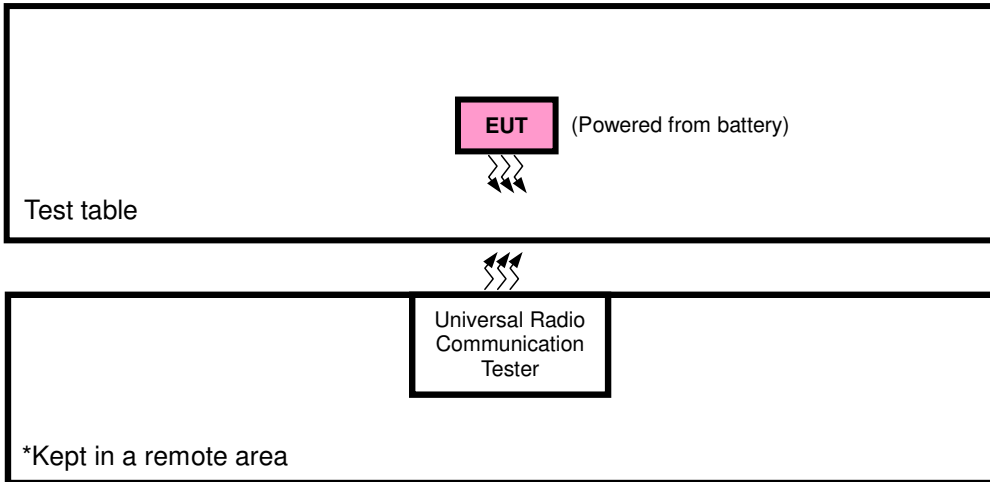


2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR CONDUCTED & E.I.R.P. TEST





2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|-----------|----------|-----------|------------|--------|
| 1 | DC source | LONG WEI | PS-6403D | 010934269 | N/A |
| 2 | PC | HP | A6608CN | 3CR83825X3 | N/A |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1 | DC Line: Unshielded, Detachable 1.0m |
| 2 | AC Line: Unshielded, Detachable 1.5m |

NOTE:

1. All power cords of the above support units are non shielded (1.8m).

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in EIRP and radiated emission was found when positioned on X-plane for GSM/WCDMA. Following channel(s) was (were) selected for the final test as listed below:

| EUT CONFIGURE MODE | DESCRIPTION |
|--------------------|---|
| A | EUT + Adapter + USB Cable + Earphone with GSM or WCDMA link |
| B | EUT + Battery with GSM or WCDMA link |

GSM MODE

| EUT CONFIGURE MODE | TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|--------------------|-----------------------|-------------------|----------------|------|
| B | EIRP | 512 to 810 | 512, 661, 810 | GSM |
| B | FREQUENCY STABILITY | 512 to 810 | 512, 810 | GSM |
| B | OCCUPIED BANDWIDTH | 512 to 810 | 512, 661, 810 | GSM |
| B | PEAK TO AVERAGE RATIO | 512 to 810 | 512, 661, 810 | GSM |
| B | BAND EDGE | 512 to 810 | 512, 810 | GSM |
| B | CONDCUDED EMISSION | 512 to 810 | 512, 661, 810 | GSM |
| A | RADIATED EMISSION | 512 to 810 | 512, 661, 810 | GSM |



WCDMA MODE

| EUT CONFIGURE MODE | TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|--------------------|-----------------------|-------------------|------------------|-------|
| B | EIRP | 9262 to 9538 | 9262, 9400, 9538 | WCDMA |
| B | FREQUENCY STABILITY | 9262 to 9538 | 9262, 9538 | WCDMA |
| B | OCCUPIED BANDWIDTH | 9262 to 9538 | 9262, 9400, 9538 | WCDMA |
| B | PEAK TO AVERAGE RATIO | 9262 to 9538 | 9262, 9400, 9538 | WCDMA |
| B | BAND EDGE | 9262 to 9538 | 9262, 9538 | WCDMA |
| B | CONDCUDED EMISSION | 9262 to 9538 | 9262, 9400, 9538 | WCDMA |
| A | RADIATED EMISSION | 9262 to 9538 | 9262, 9400, 9538 | WCDMA |

TEST CONDITION:

| TEST ITEM | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|-----------------------|--------------------------|----------------------|-----------|
| EIRP | 25deg. C, 57%RH | 3.85Vdc from Battery | Rose Ma |
| FREQUENCY STABILITY | 23deg. C, 61%RH | DC 3.45V/3.85V/4.4V | Rain Wang |
| OCCUPIED BANDWIDTH | 23deg. C, 61%RH | 3.85Vdc from Battery | Rain Wang |
| PEAK TO AVERAGE RATIO | 23deg. C, 61%RH | 3.85Vdc from Battery | Rain Wang |
| BAND EDGE | 23deg. C, 61%RH | 3.85Vdc from Battery | Rain Wang |
| CONDCUDED EMISSION | 23deg. C, 61%RH | 3.85Vdc from Battery | John Wen |
| RADIATED EMISSION | 23deg. C, 70%RH | 5Vdc from adapter | Rose Ma |

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency



2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 24

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.



3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM & GPRS mode and VBW is 5MHz for WCDMA mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “ Read Value” is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “ Read Value“ of step b. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

CONDUCTED POWER MEASUREMENT:

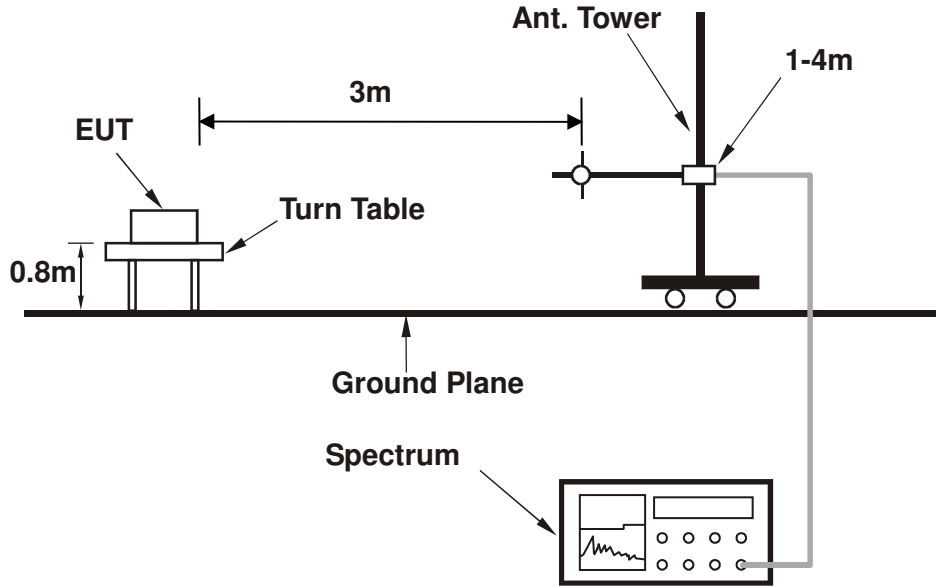
The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



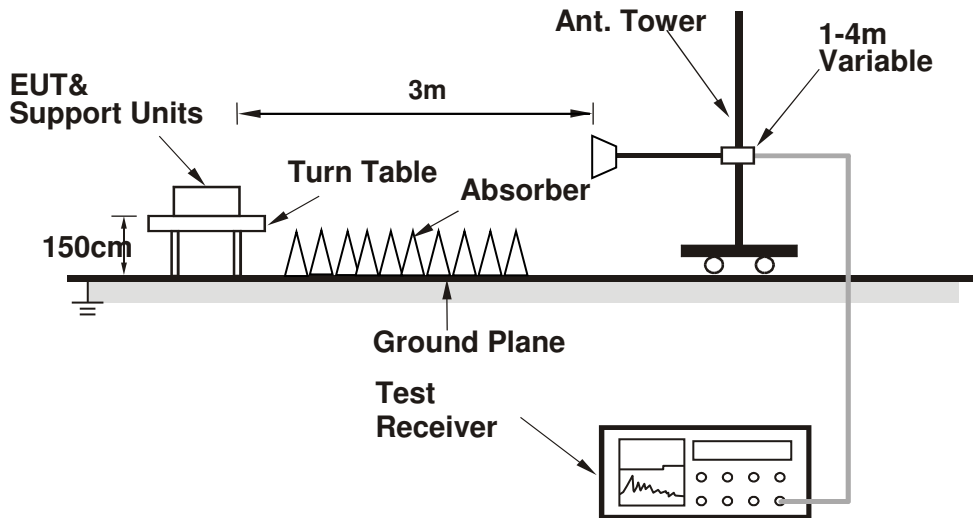
3.1.3 TEST SETUP

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

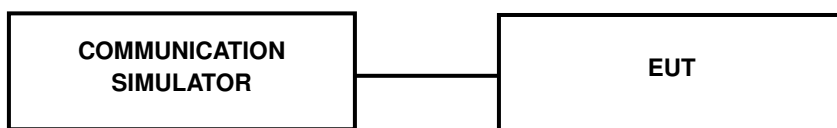


<Radiated Emission above 1 GHz>



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

CONDUCTED POWER MEASUREMENT:





3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

| Band | GSM1900 | | |
|-----------------|---------|--------|--------------|
| Channel | 512 | 661 | 810 |
| Frequency (MHz) | 1850.2 | 1880.0 | 1909.8 |
| GSM | 28.46 | 28.73 | 28.74 |
| GPRS 8 | 28.49 | 28.72 | 28.73 |
| GPRS 10 | 26.67 | 26.66 | 26.67 |
| GPRS 11 | 25.29 | 25.30 | 25.31 |
| GPRS 12 | 23.56 | 23.50 | 23.53 |

| Band | WCDMA II | | |
|-----------------|----------|--------|--------|
| Channel | 9262 | 9400 | 9538 |
| Frequency (MHz) | 1852.4 | 1880.0 | 1907.6 |
| RMC 12.2K | 20.97 | 21.18 | 20.91 |
| HSPA | | | |
| HSDPA Subtest-1 | 20.82 | 21.03 | 20.76 |
| HSDPA Subtest-2 | 20.71 | 20.92 | 20.65 |
| HSDPA Subtest-3 | 20.65 | 20.86 | 20.59 |
| HSDPA Subtest-4 | 20.58 | 20.79 | 20.52 |
| HSUPA Subtest-1 | 20.91 | 21.12 | 20.85 |
| HSUPA Subtest-2 | 19.97 | 20.18 | 19.91 |
| HSUPA Subtest-3 | 20.43 | 20.64 | 20.37 |
| HSUPA Subtest-4 | 19.92 | 20.13 | 19.86 |
| HSUPA Subtest-5 | 20.70 | 20.91 | 20.64 |



EIRP POWER (dBm)

GSM

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|---------|-----------------|---------------|-----------------------|-----------|---------------|--------------------|
| 512 | 1850.2 | -15.12 | 43.83 | 28.71 | 743.02 | H |
| 661 | 1880.0 | -15.75 | 43.57 | 27.82 | 605.34 | H |
| 810 | 1909.8 | -15.46 | 44.57 | 29.11 | 814.70 | H |
| 512 | 1850.2 | -28.12 | 46.39 | 18.27 | 67.14 | V |
| 661 | 1880.0 | -28.67 | 47.10 | 18.43 | 69.63 | V |
| 810 | 1909.8 | -29.35 | 45.98 | 16.63 | 45.98 | V |

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).
2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss

WCDMA

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|---------|-----------------|---------------|-----------------------|-----------|---------------|--------------------|
| 9262 | 1852.4 | -22.58 | 43.83 | 21.25 | 133.35 | H |
| 9400 | 1880.0 | -21.12 | 43.57 | 22.45 | 175.79 | H |
| 9538 | 1907.6 | -22.76 | 44.57 | 21.81 | 151.71 | H |
| 9262 | 1852.4 | -29.75 | 46.39 | 16.64 | 46.13 | V |
| 9400 | 1880.0 | -29.89 | 47.10 | 17.21 | 52.58 | V |
| 9538 | 1907.6 | -29.31 | 45.98 | 16.67 | 46.41 | V |

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).
2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

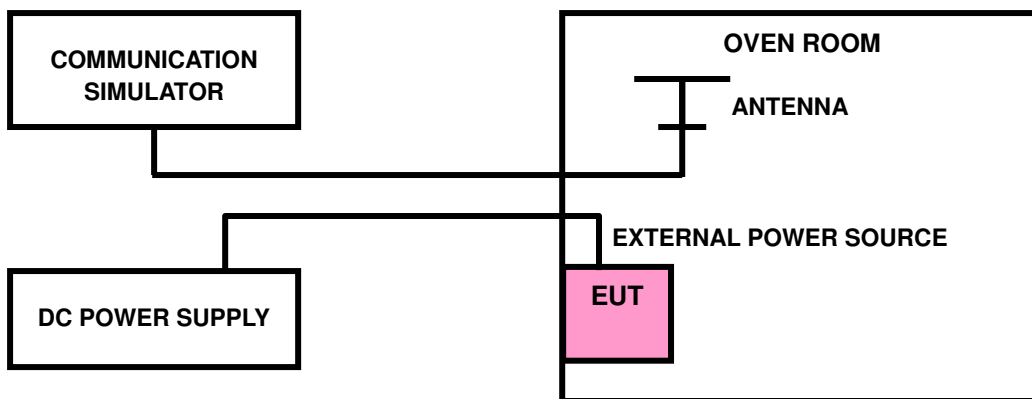
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP





3.2.4 TEST RESULTS

GSM1900

FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts) | FREQUENCY ERROR (ppm) | | LIMIT (ppm) |
|-----------------|-----------------------|--------------|-------------|
| | Low Channel | High Channel | |
| 3.85 | 0.0011 | 0.0013 | 2.5 |
| 3.45 | -0.0013 | -0.0014 | 2.5 |
| 4.4 | 0.0010 | 0.0012 | 2.5 |

NOTE: The applicant defined the normal working voltage of the battery is from 3.45Vdc to 4.4Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | FREQUENCY ERROR (ppm) | | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
| | Low Channel | High Channel | |
| -30 | -0.0062 | -0.0059 | 2.5 |
| -20 | -0.0057 | -0.0054 | 2.5 |
| -10 | -0.0051 | -0.0049 | 2.5 |
| 0 | -0.0042 | -0.0039 | 2.5 |
| 10 | -0.0033 | -0.0031 | 2.5 |
| 20 | -0.0025 | -0.0023 | 2.5 |
| 30 | -0.0019 | -0.0017 | 2.5 |
| 40 | -0.0015 | -0.0013 | 2.5 |
| 50 | -0.0005 | -0.0003 | 2.5 |



WCDMA BAND II

FREQUENCY ERROR VS. VOLTAGE

| VOLTAGE (Volts) | FREQUENCY ERROR (ppm) | | LIMIT (ppm) |
|-----------------|-----------------------|--------------|-------------|
| | Low Channel | High Channel | |
| 3.85 | 0.0010 | 0.0009 | 2.5 |
| 3.45 | -0.0011 | -0.0012 | 2.5 |
| 4.4 | 0.0010 | 0.0011 | 2.5 |

NOTE: The applicant defined the normal working voltage of the battery is from 3.45Vdc to 4.4Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

| TEMP. (°C) | FREQUENCY ERROR (ppm) | | LIMIT (ppm) |
|------------|-----------------------|--------------|-------------|
| | Low Channel | High Channel | |
| -30 | -0.0059 | -0.0056 | 2.5 |
| -20 | -0.0055 | -0.0052 | 2.5 |
| -10 | -0.0048 | -0.0045 | 2.5 |
| 0 | -0.0042 | -0.0040 | 2.5 |
| 10 | -0.0031 | -0.0029 | 2.5 |
| 20 | -0.0025 | -0.0024 | 2.5 |
| 30 | -0.0018 | -0.0017 | 2.5 |
| 40 | -0.0013 | -0.0012 | 2.5 |
| 50 | -0.0006 | -0.0005 | 2.5 |

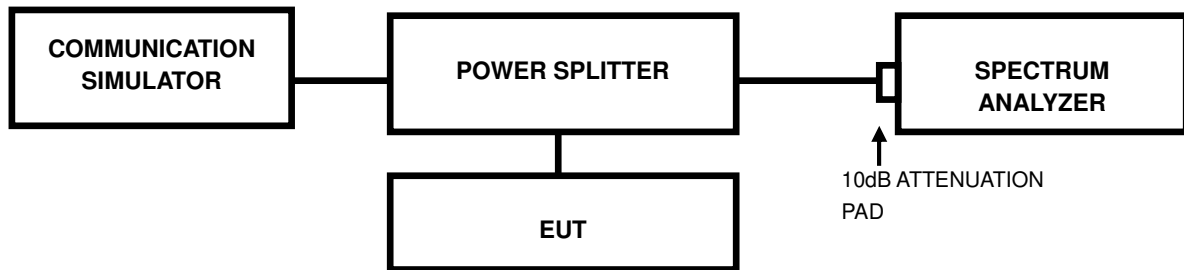


3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

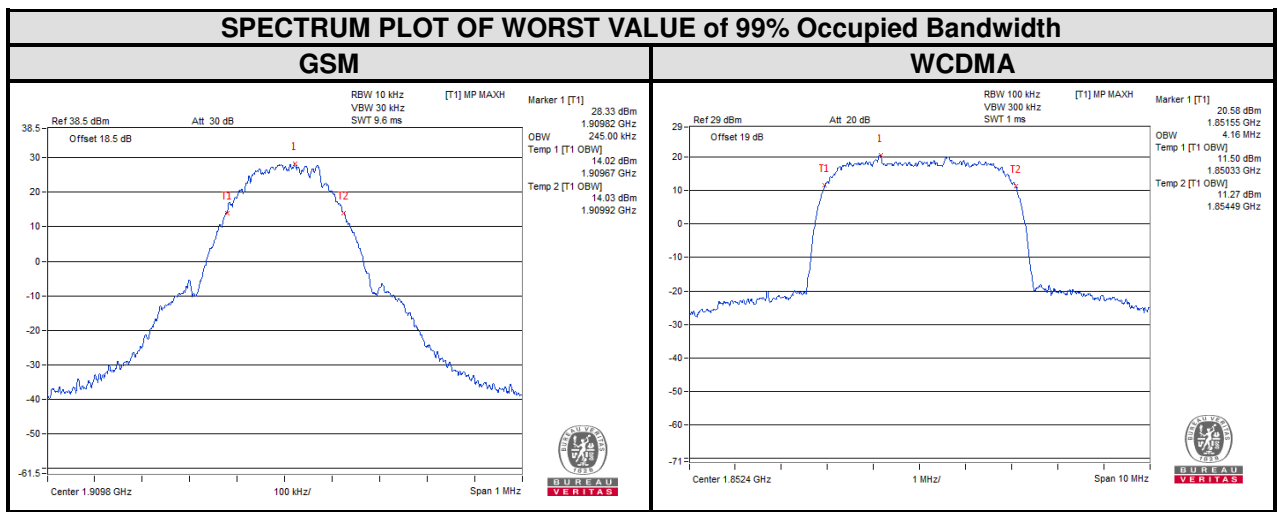
3.3.2 TEST SETUP





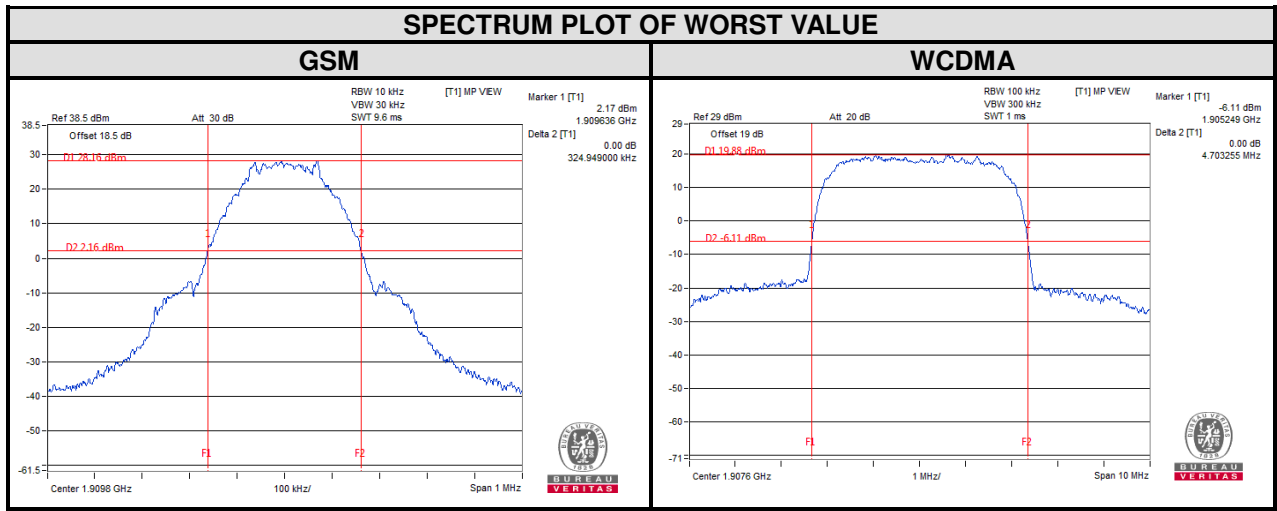
3.3.3 TEST RESULTS

| Channel | Frequency (MHz) | 99% Occupied bandwidth (kHz) | Channel | Frequency (MHz) | 99% Occupied bandwidth (MHz) |
|---------|-----------------|------------------------------|---------|-----------------|------------------------------|
| | | GSM | | | WCDMA |
| 512 | 1850.2 | 244.00 | 9262 | 1852.4 | 4.16 |
| 661 | 1880.0 | 244.00 | 9400 | 1880.0 | 4.14 |
| 810 | 1909.8 | 245.00 | 9538 | 1907.6 | 4.15 |





| Channel | Frequency (MHz) | 26dB bandwidth (kHz) | Channel | Frequency (MHz) | 26dB bandwidth (MHz) |
|---------|-----------------|----------------------|---------|-----------------|----------------------|
| | | GSM | | | WCDMA |
| 512 | 1850.2 | 320.84 | 9262 | 1852.4 | 4.69 |
| 661 | 1880.0 | 317.98 | 9400 | 1880.0 | 4.69 |
| 810 | 1909.8 | 324.95 | 9538 | 1907.6 | 4.70 |



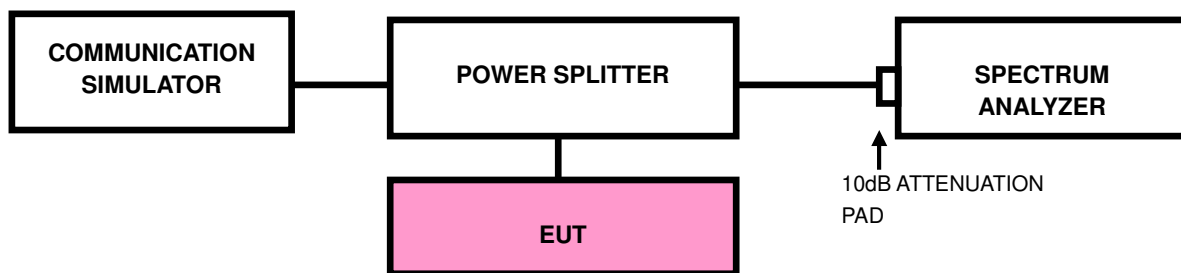


3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

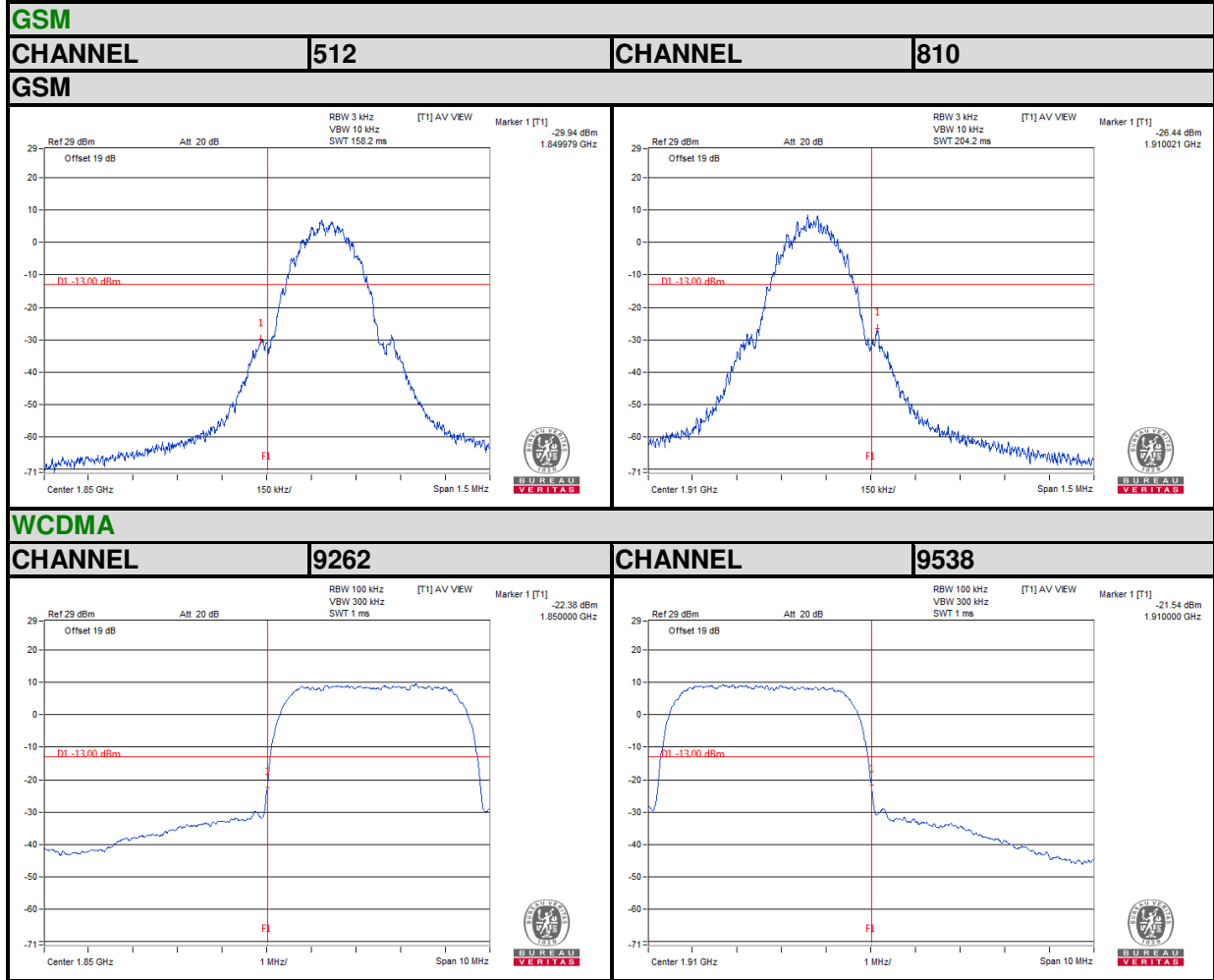
- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 1.5 MHz. RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (GSM/GPRS).
- The center frequency of spectrum is the band edge frequency and span is 10MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (WCDMA).
- Record the max trace plot into the test report.



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Test Report No.: RF190124W002-4

3.4.4 TEST RESULTS





3.5 CONDUCTED SPURIOUS EMISSIONS

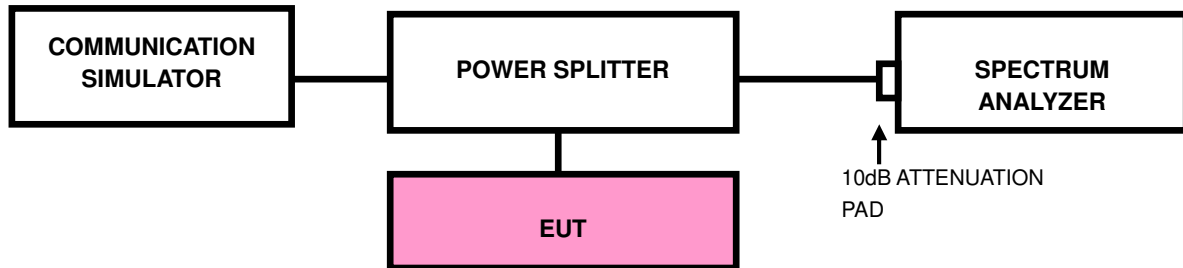
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

3.5.2 TEST PROCEDURE

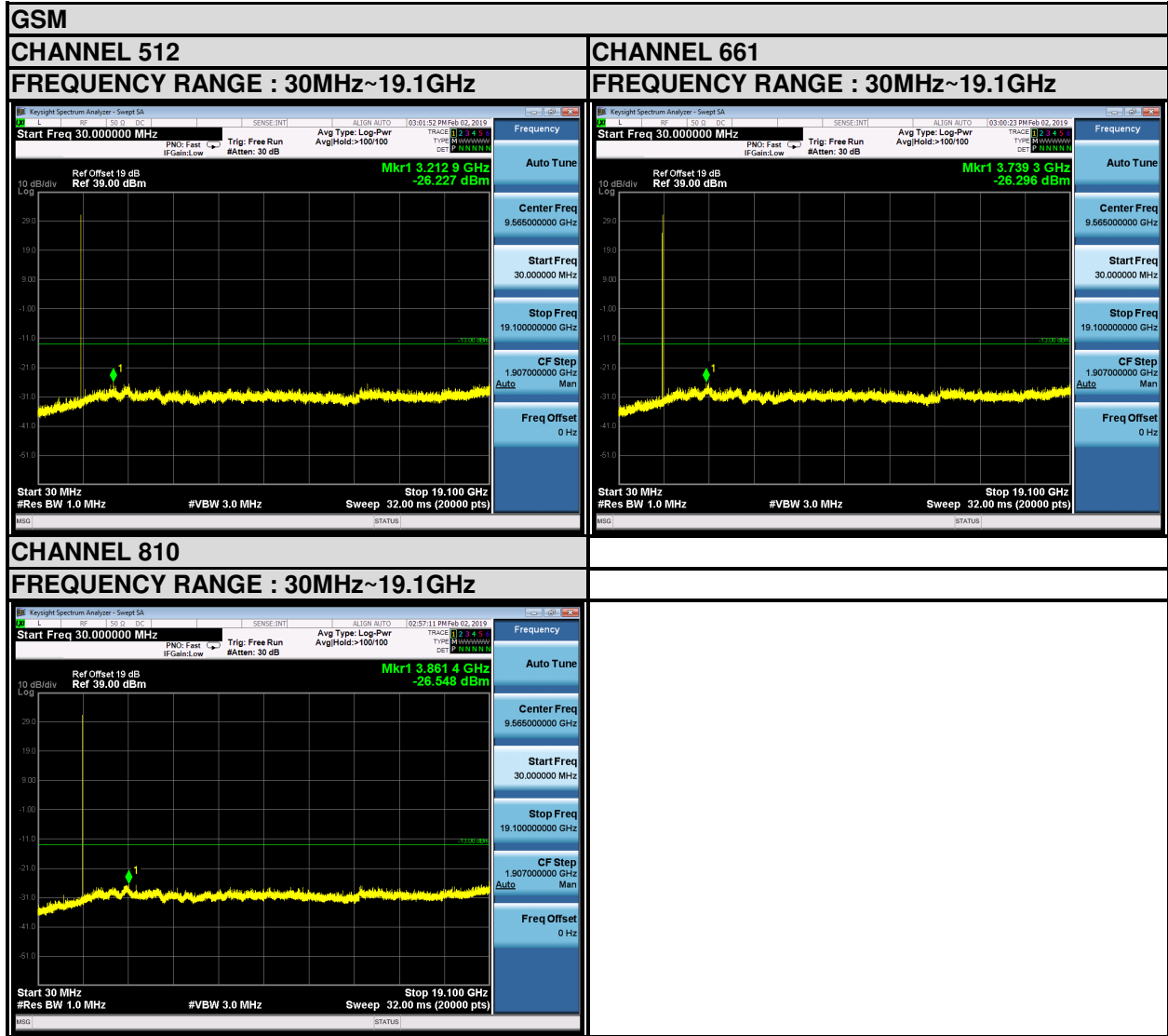
- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9 kHz to 19.1GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP





3.5.4 TEST RESULTS





BUREAU VERITAS

Test Report No.: RF190124W002-4





3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “ Read Value” is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “ Read Value “ of step a. Record the power level of S.G
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

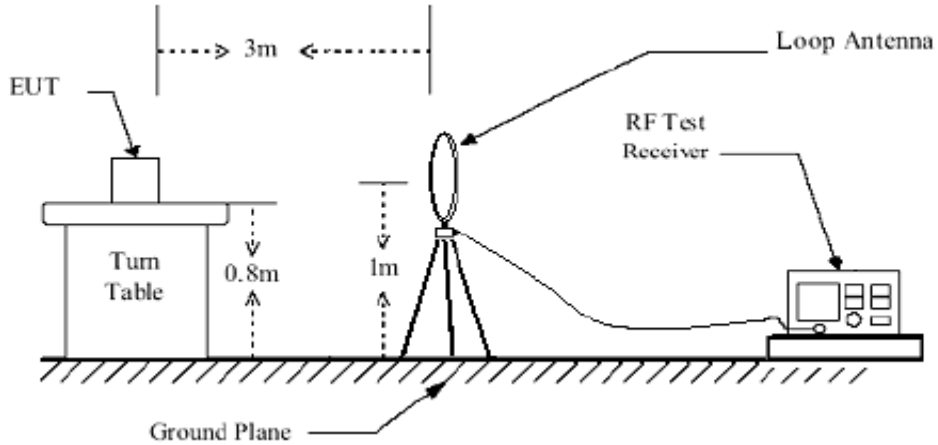
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

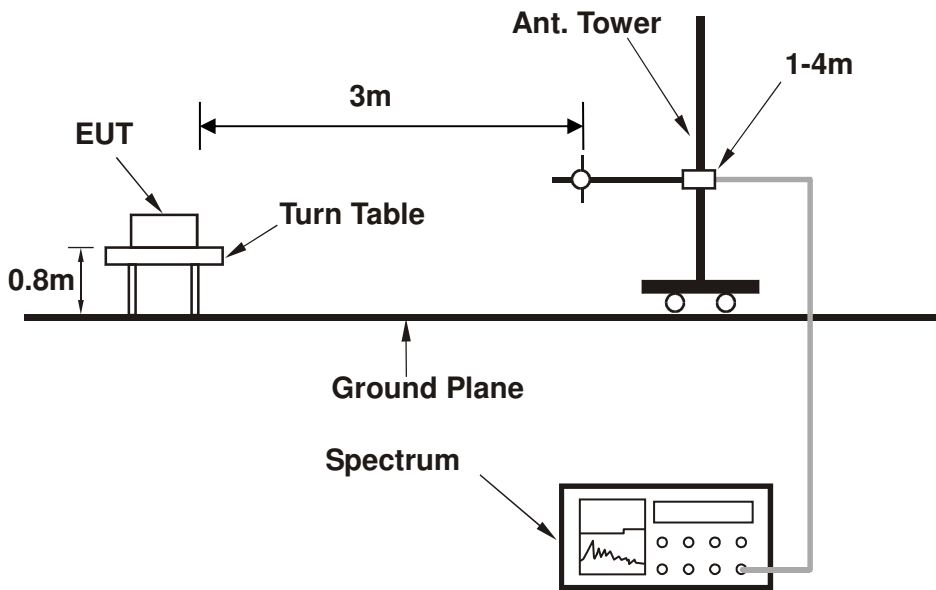


3.6.4 TEST SETUP

<Below 30MHz>

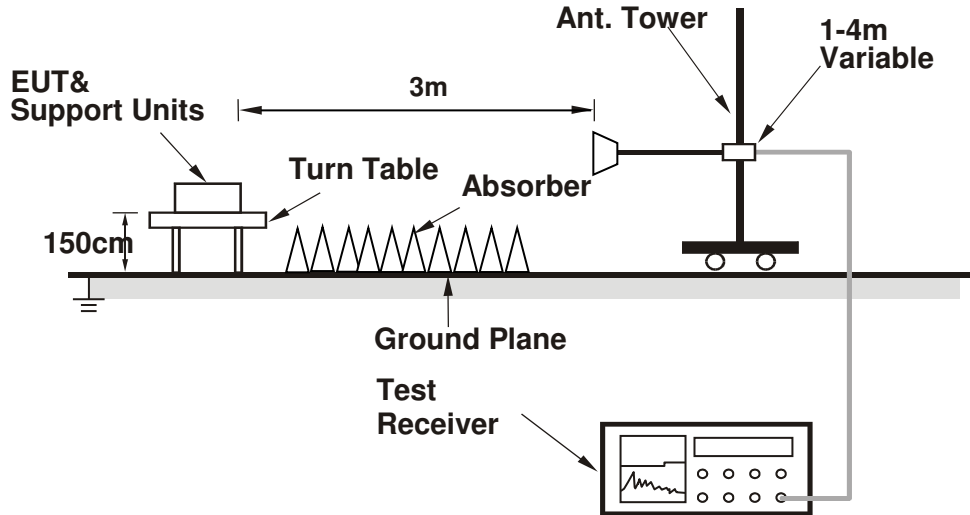


< Frequency Range 30MHz~1GHz >





< Frequency Range above 1GHz >



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



3.6.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

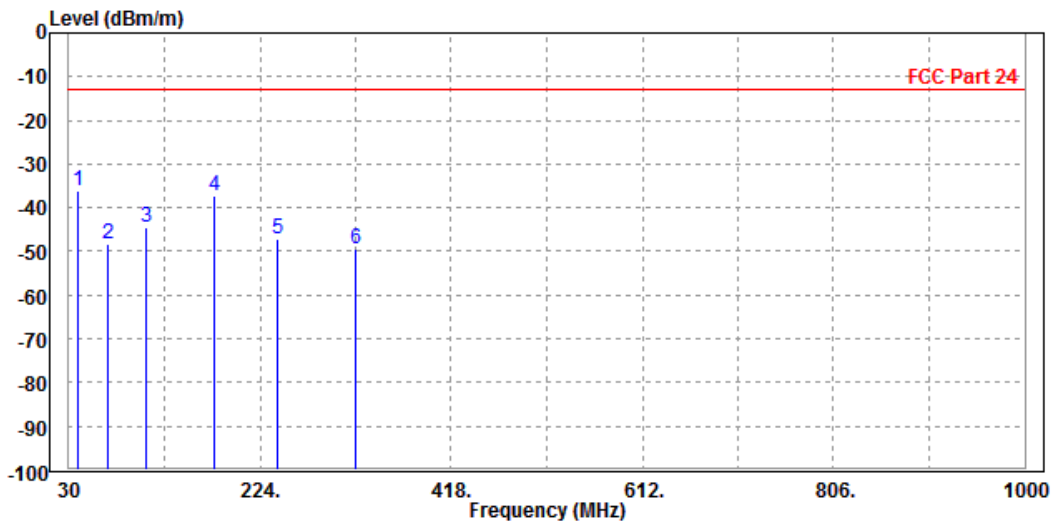
9 KHz – 30 MHz data: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz – 1GHz data:

WCDMA Band II:

| | | | |
|--|-----------------|------------------------|--------------------|
| MODE | TX channel 9400 | FREQUENCY RANGE | Below 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Rose Ma | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

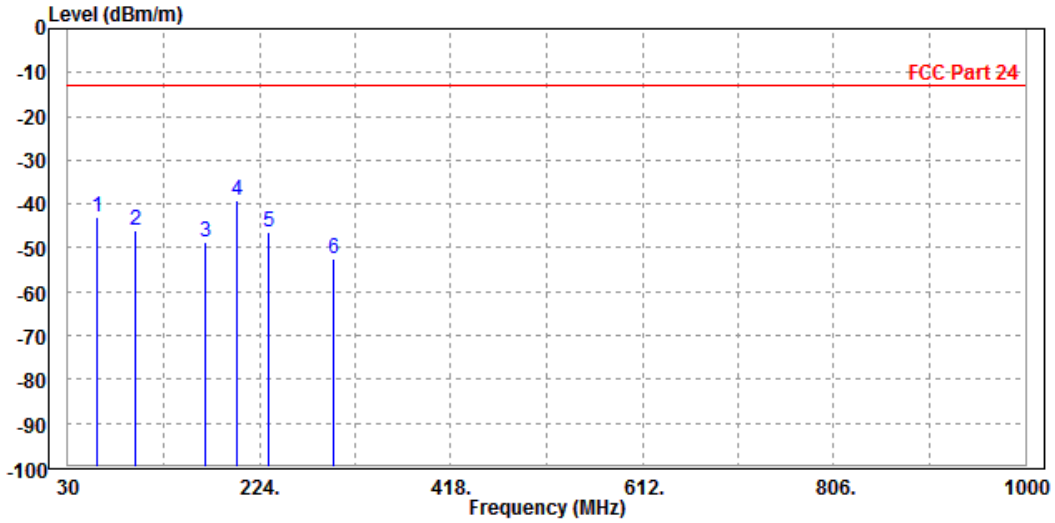
| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase | |
|---|------|---------|------------|------------|------------|--------|--------|-----------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | | |
| 1 | PP | 39.650 | -36.12 | -48.21 | -13.00 | -23.12 | 12.09 | Peak | Horizontal |
| 2 | | 68.970 | -48.19 | -36.36 | -13.00 | -35.19 | -11.83 | Peak | Horizontal |
| 3 | | 108.150 | -44.31 | -31.45 | -13.00 | -31.31 | -12.86 | Peak | Horizontal |
| 4 | | 178.260 | -37.39 | -19.57 | -13.00 | -24.39 | -17.82 | Peak | Horizontal |
| 5 | | 241.560 | -47.16 | -30.72 | -13.00 | -34.16 | -16.44 | Peak | Horizontal |
| 6 | | 321.420 | -49.50 | -36.41 | -13.00 | -36.50 | -13.09 | Peak | Horizontal |





| | | | |
|--|-----------------|------------------------|--------------------|
| MODE | TX channel 9400 | FREQUENCY RANGE | Below 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Rose Ma | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|---------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 60.120 | -42.93 | -30.52 | -13.00 | -29.93 | -12.41 | Peak | Vertical |
| 2 | 99.160 | -45.92 | -35.26 | -13.00 | -32.92 | -10.66 | Peak | Vertical |
| 3 | 168.750 | -48.63 | -34.28 | -13.00 | -35.63 | -14.35 | Peak | Vertical |
| 4 PP | 201.450 | -39.33 | -28.67 | -13.00 | -26.33 | -10.66 | Peak | Vertical |
| 5 | 232.690 | -46.42 | -35.21 | -13.00 | -33.42 | -11.21 | Peak | Vertical |
| 6 | 299.560 | -52.48 | -41.18 | -13.00 | -39.48 | -11.30 | Peak | Vertical |





ABOVE 1GHz DATA

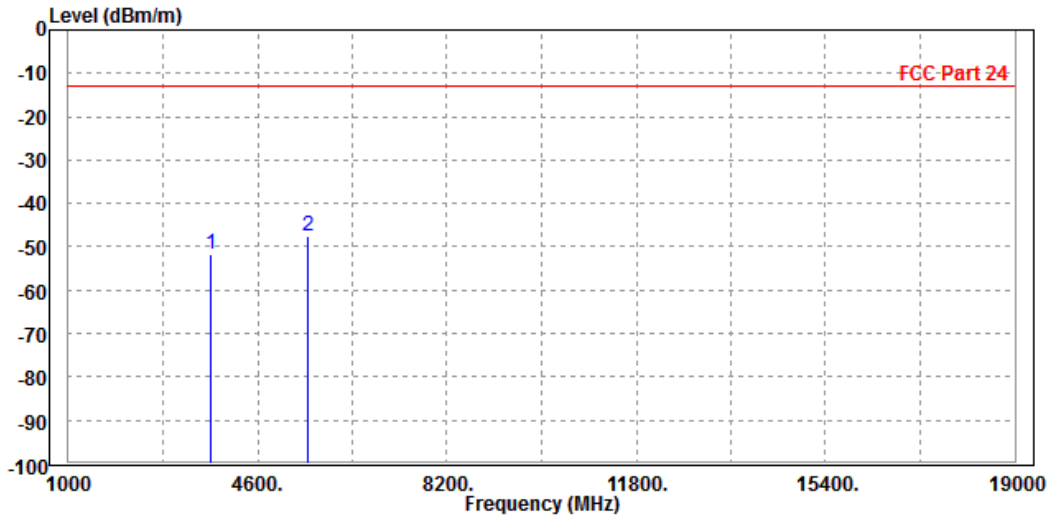
Note: For higher frequency, the emission is too low to be detected.

PCS 1900:

CH 512

| | | | |
|--|-----------------|------------------------|--------------------|
| MODE | TX channel 512 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Rose Ma | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

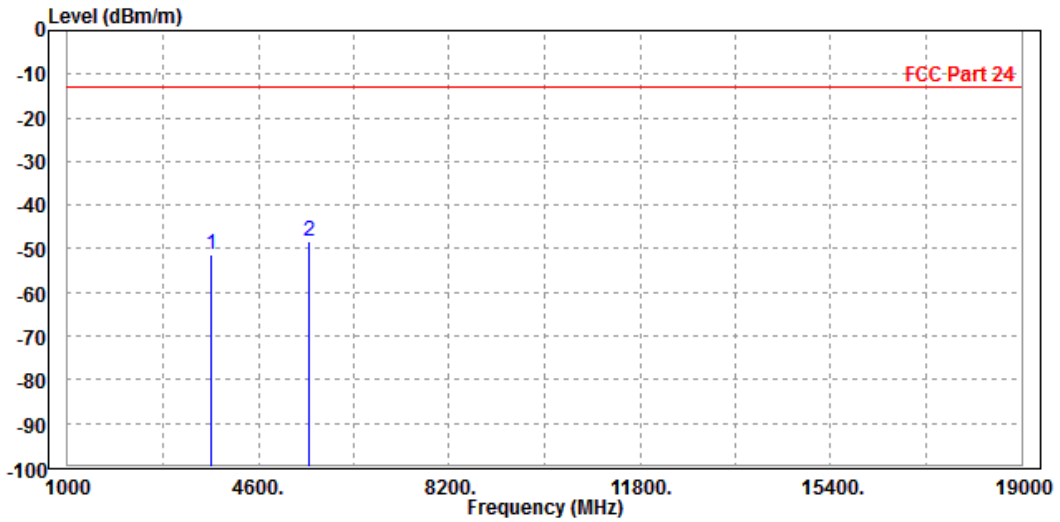
| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3698.000 | -51.71 | -54.82 | -13.00 | -38.71 | 3.11 | Peak | Horizontal |
| 2 | PP 5558.000 | -47.43 | -56.46 | -13.00 | -34.43 | 9.03 | Peak | Horizontal |





| | | | |
|--|-----------------|-----------------|--------------------|
| MODE | TX channel 512 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Rose Ma | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3698.000 | -51.32 | -54.89 | -13.00 | -38.32 | 3.57 | Peak | Vertical |
| 2 PP | 5558.000 | -48.42 | -56.51 | -13.00 | -35.42 | 8.09 | Peak | Vertical |

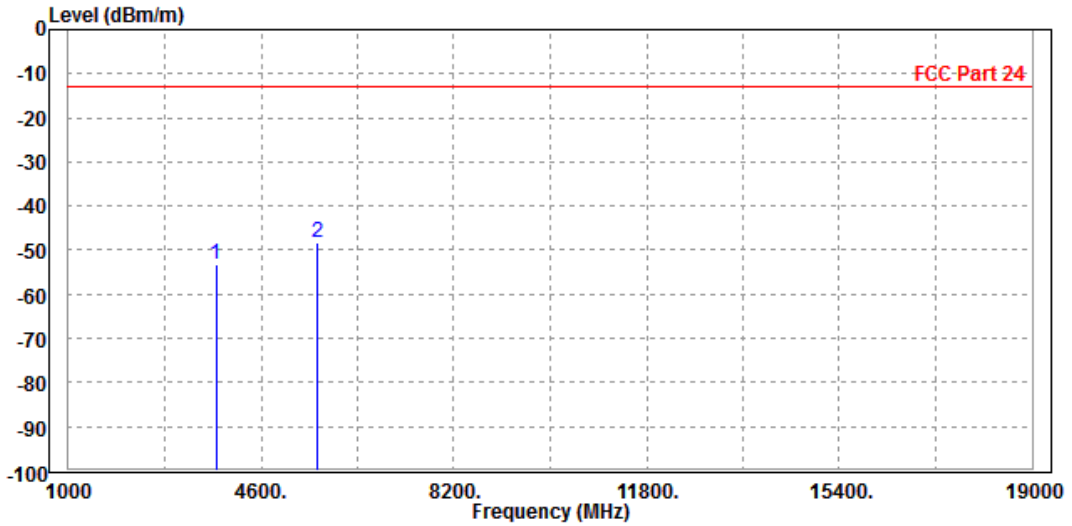




CH 661

| | | | |
|--|-----------------|-----------------|--------------------|
| MODE | TX channel 661 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Rose Ma | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

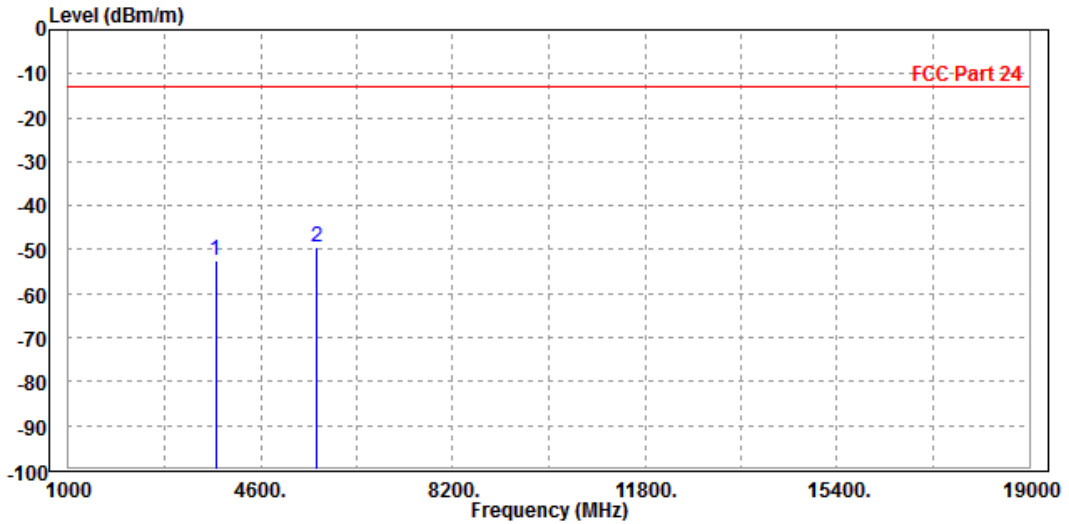
| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3755.000 | -53.22 | -56.61 | -13.00 | -40.22 | 3.39 | Peak | Horizontal |
| 2 PP | 5640.000 | -48.42 | -57.54 | -13.00 | -35.42 | 9.12 | Peak | Horizontal |





| | | | |
|--|-----------------|-----------------|--------------------|
| MODE | TX channel 661 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Rose Ma | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3755.000 | -52.47 | -56.32 | -13.00 | -39.47 | 3.85 | Peak | Vertical |
| 2 | PP 5640.000 | -49.39 | -57.65 | -13.00 | -36.39 | 8.26 | Peak | Vertical |

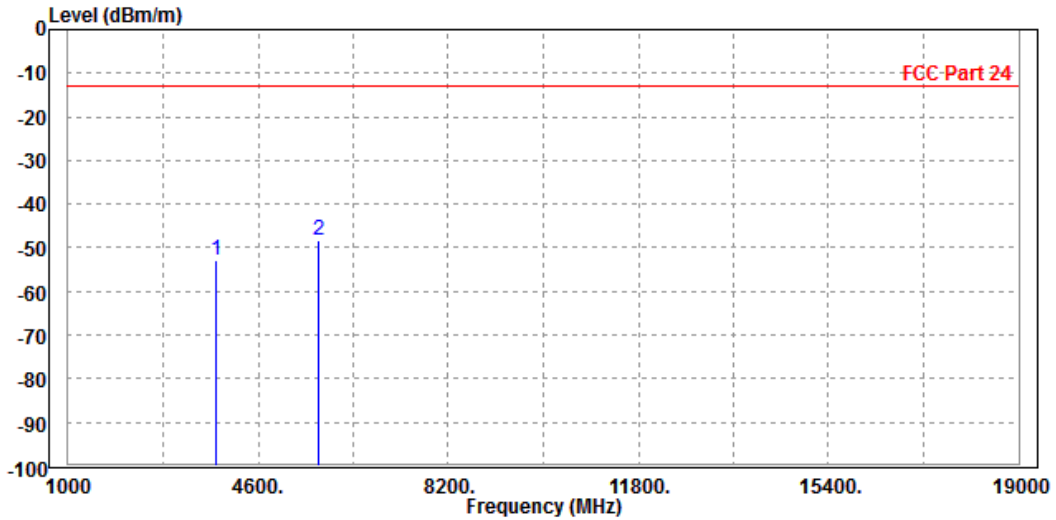




CH 810

| | | | |
|--|-----------------|------------------------|--------------------|
| MODE | TX channel 810 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Rose Ma | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

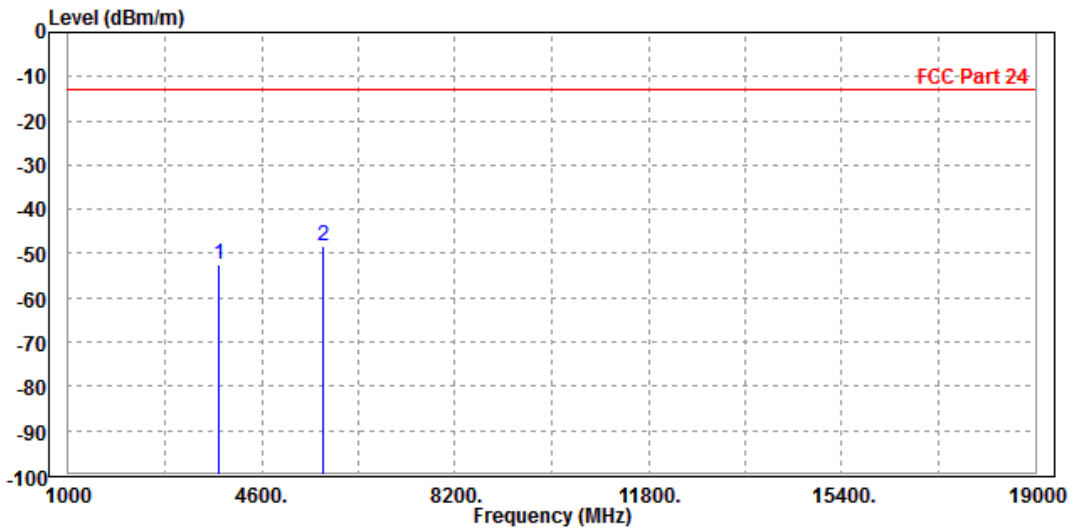
| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3812.000 | -52.97 | -56.63 | -13.00 | -39.97 | 3.66 | Peak | Horizontal |
| 2 PP | 5730.000 | -48.33 | -57.55 | -13.00 | -35.33 | 9.22 | Peak | Horizontal |





| | | | |
|--|-----------------|------------------------|--------------------|
| MODE | TX channel 810 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Rose Ma | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3812.000 | -52.53 | -56.67 | -13.00 | -39.53 | 4.14 | Peak | Vertical |
| 2 PP | 5730.000 | -48.15 | -56.59 | -13.00 | -35.15 | 8.44 | Peak | Vertical |



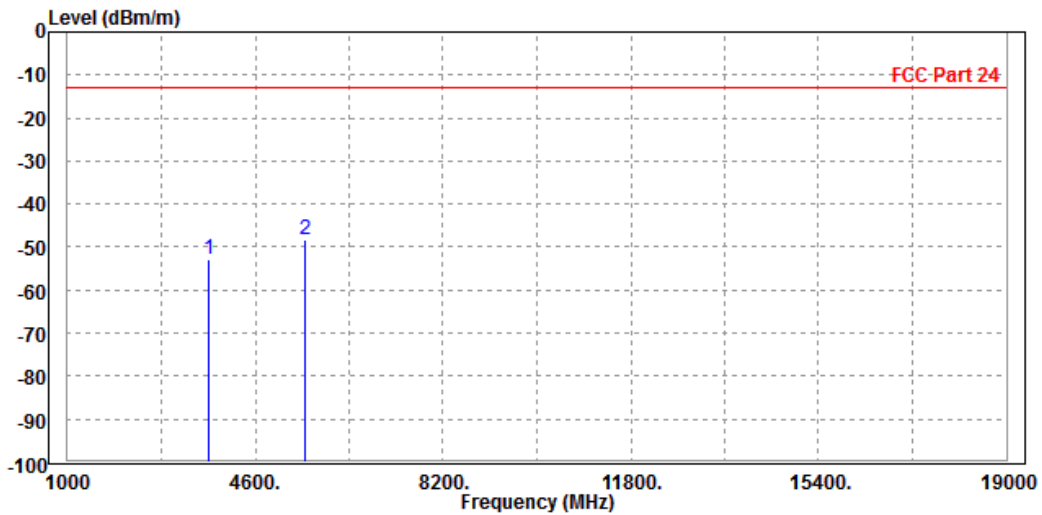


WCDMA Band II

CH 9262

| | | | |
|--|-----------------|------------------------|--------------------|
| MODE | TX channel 9262 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Alex Chen | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

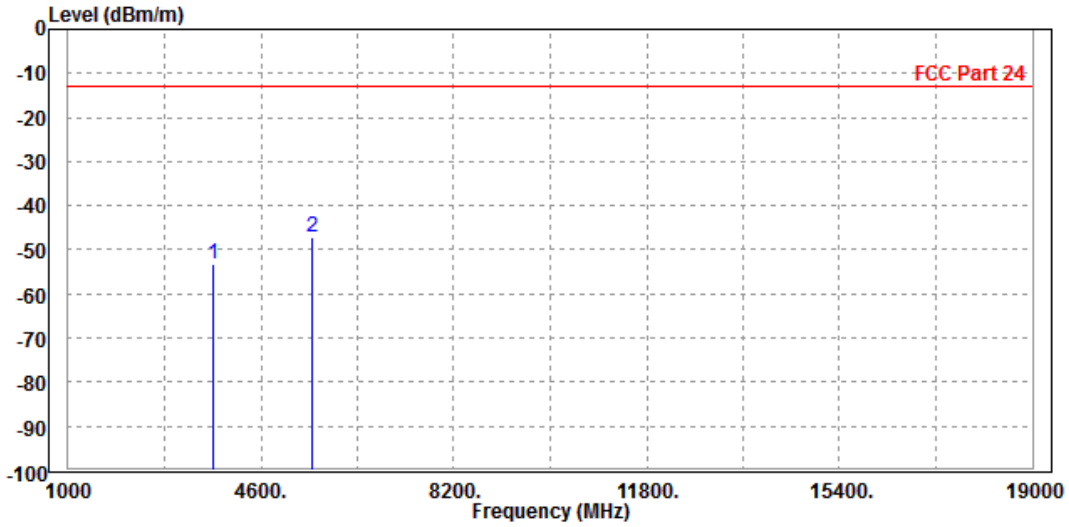
| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3698.000 | -52.80 | -55.91 | -13.00 | -39.80 | 3.11 | Peak | Horizontal |
| 2 PP | 5550.000 | -48.30 | -57.32 | -13.00 | -35.30 | 9.02 | Peak | Horizontal |





| | | | |
|--|-----------------|------------------------|--------------------|
| MODE | TX channel 9262 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Alex Chen | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3698.000 | -53.11 | -56.68 | -13.00 | -40.11 | 3.57 | Peak | Vertical |
| 2 PP | 5550.000 | -47.34 | -55.41 | -13.00 | -34.34 | 8.07 | Peak | Vertical |





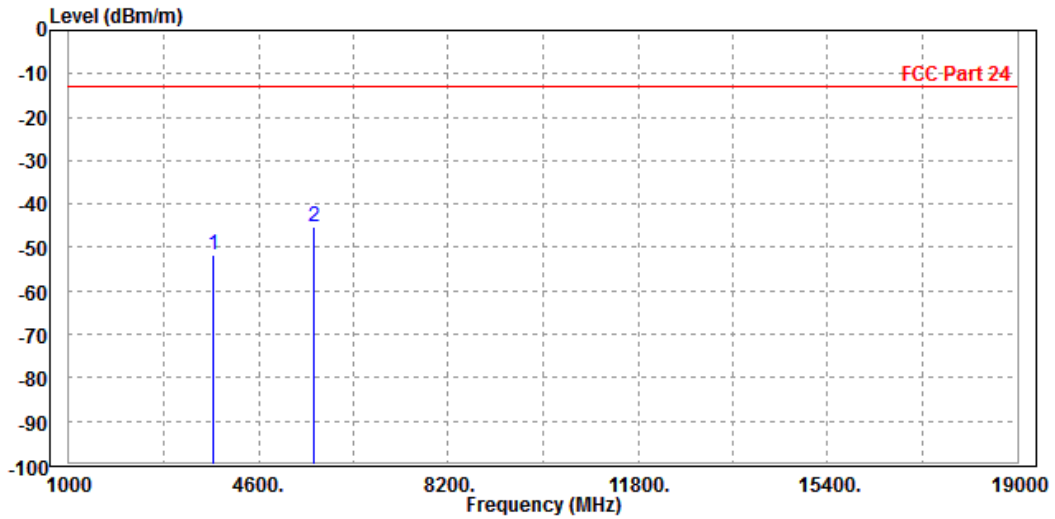
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Test Report No.: RF190124W002-4

CH 9400

| | | | |
|--|-----------------|------------------------|--------------------|
| MODE | TX channel 9400 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Alex Chen | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

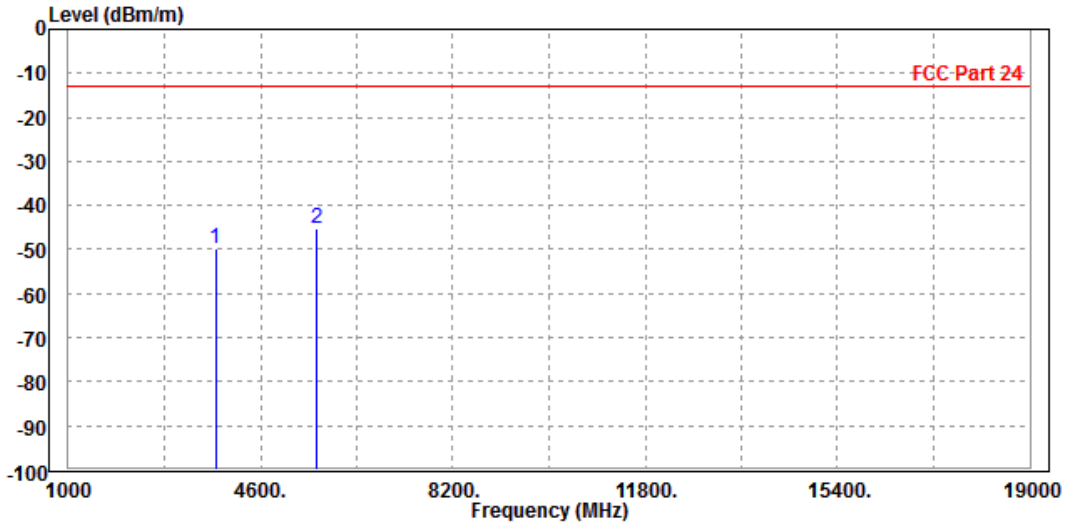
| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3754.000 | -51.86 | -55.24 | -13.00 | -38.86 | 3.38 | Peak | Horizontal |
| 2 PP | 5640.000 | -45.29 | -54.41 | -13.00 | -32.29 | 9.12 | Peak | Horizontal |





| | | | |
|--|-----------------|------------------------|--------------------|
| MODE | TX channel 9400 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Alex Chen | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3755.000 | -49.87 | -53.72 | -13.00 | -36.87 | 3.85 | Peak | Vertical |
| 2 PP | 5644.000 | -45.39 | -53.65 | -13.00 | -32.39 | 8.26 | Peak | Vertical |

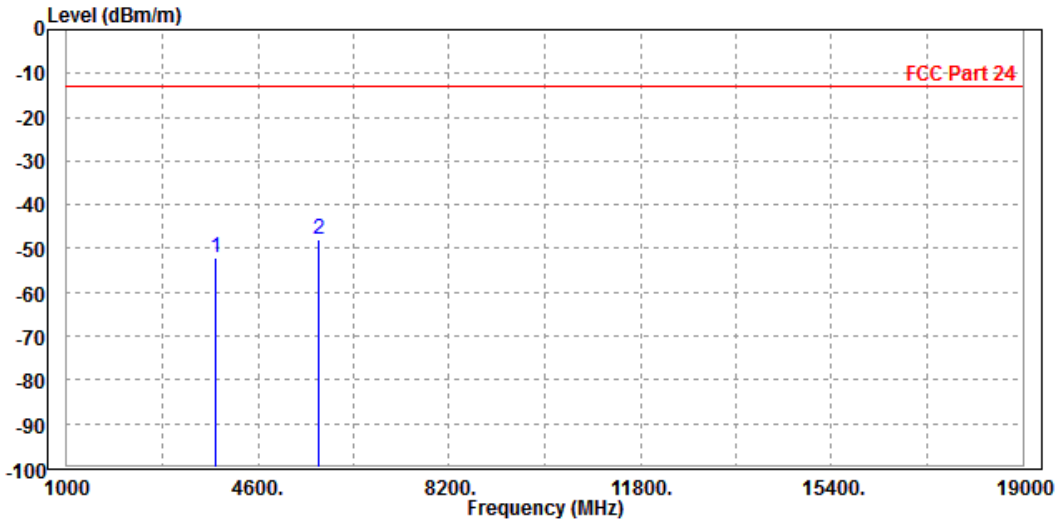




CH 9538

| | | | |
|--|-----------------|-----------------|--------------------|
| MODE | TX channel 9538 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Alex Chen | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

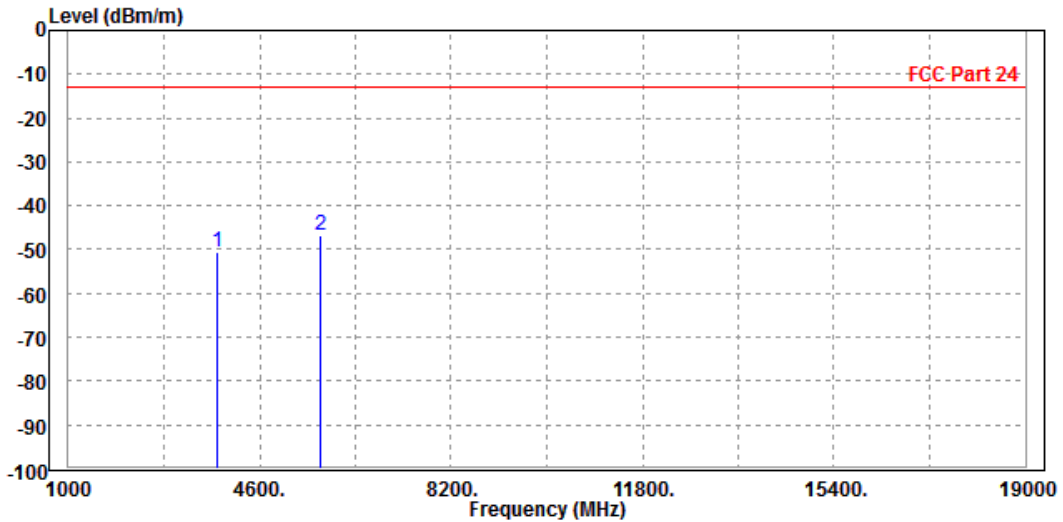
| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3812.000 | -52.03 | -55.69 | -13.00 | -39.03 | 3.66 | Peak | Horizontal |
| 2 PP | 5730.000 | -47.96 | -57.18 | -13.00 | -34.96 | 9.22 | Peak | Horizontal |





| | | | |
|--|-----------------|------------------------|--------------------|
| MODE | TX channel 9538 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Alex Chen | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3812.000 | -50.74 | -54.88 | -13.00 | -37.74 | 4.14 | Peak | Vertical |
| 2 PP | 5730.000 | -46.79 | -55.23 | -13.00 | -33.79 | 8.44 | Peak | Vertical |



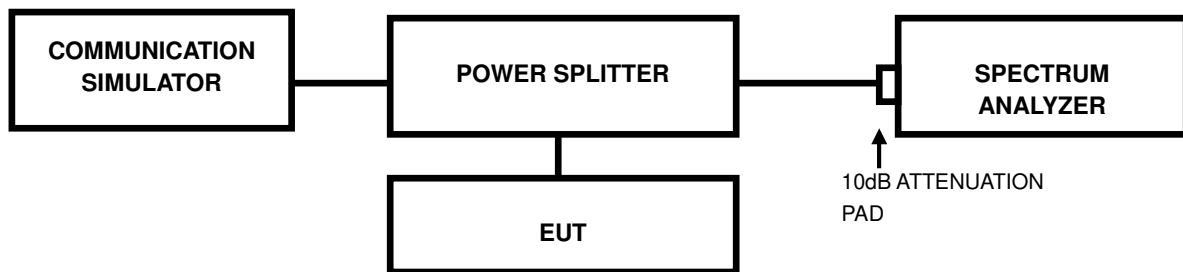


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

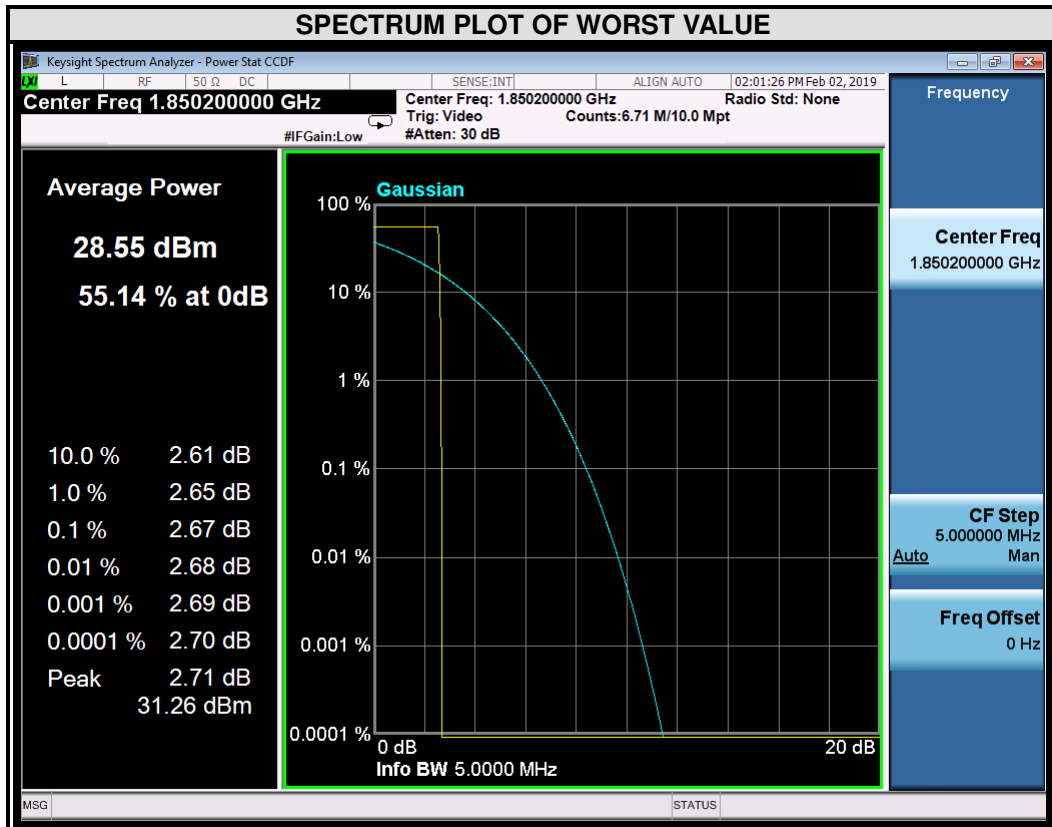
1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



3.7.4 TEST RESULTS

GSM

| CHANNEL | FREQUENCY (MHz) | PEAK TO AVERAGE RATIO (dB) |
|---------|-----------------|----------------------------|
| 512 | 1850.2 | 2.67 |

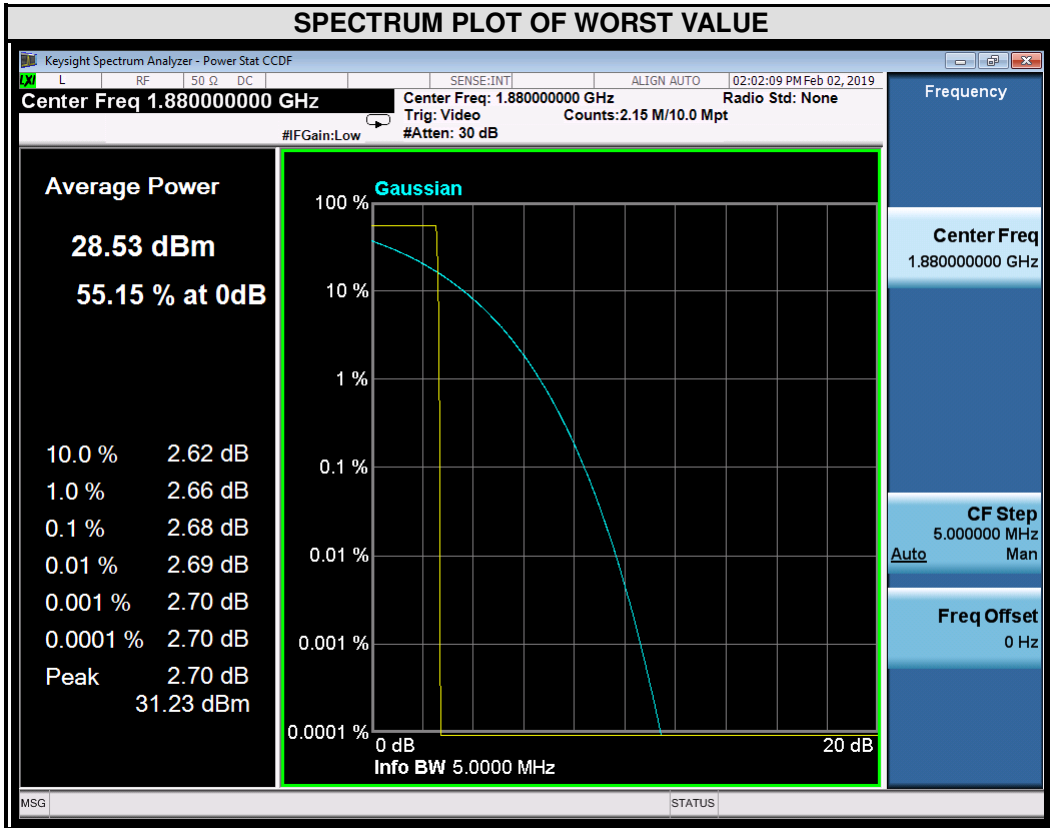




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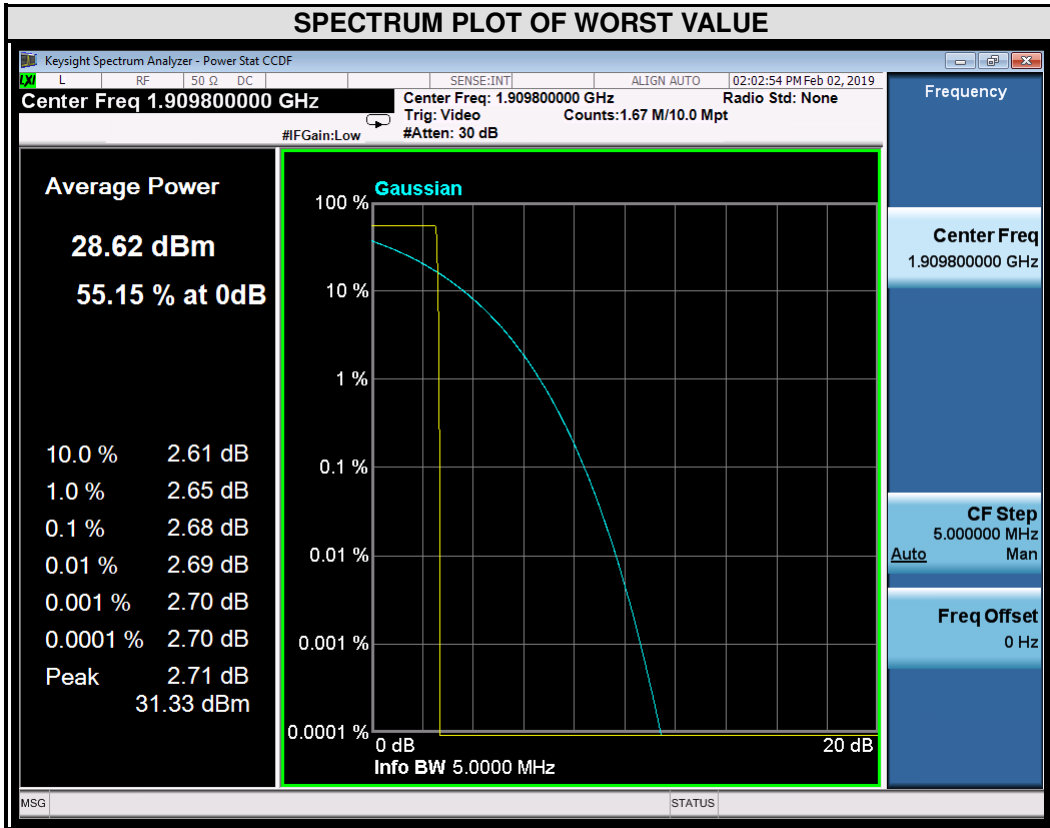
Test Report No.: RF190124W002-4

| CHANNEL | FREQUENCY (MHz) | PEAK TO AVERAGE RATIO (dB) |
|---------|-----------------|----------------------------|
| 661 | 1880 | 2.68 |





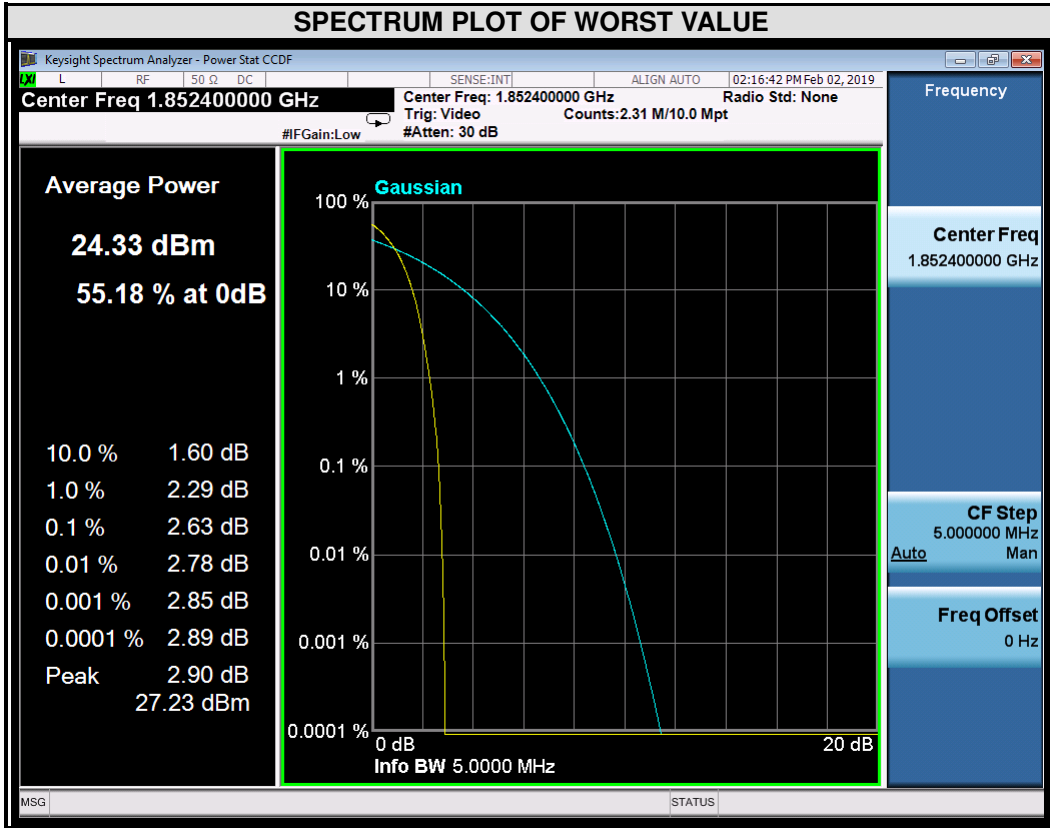
| CHANNEL | FREQUENCY (MHz) | PEAK TO AVERAGE RATIO (dB) |
|---------|-----------------|----------------------------|
| 810 | 1909.8 | 2.68 |





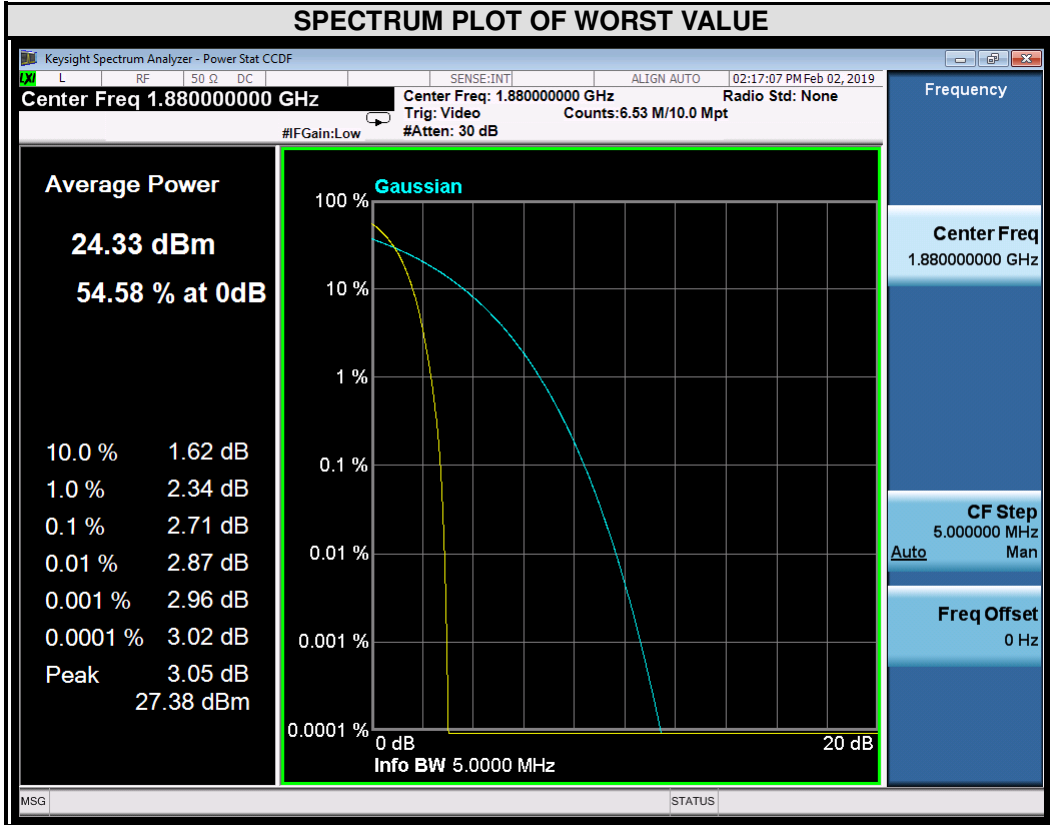
WCDMA

| CHANNEL | FREQUENCY (MHz) | PEAK TO AVERAGE RATIO (dB) |
|---------|-----------------|----------------------------|
| 9262 | 1852.4 | 2.63 |



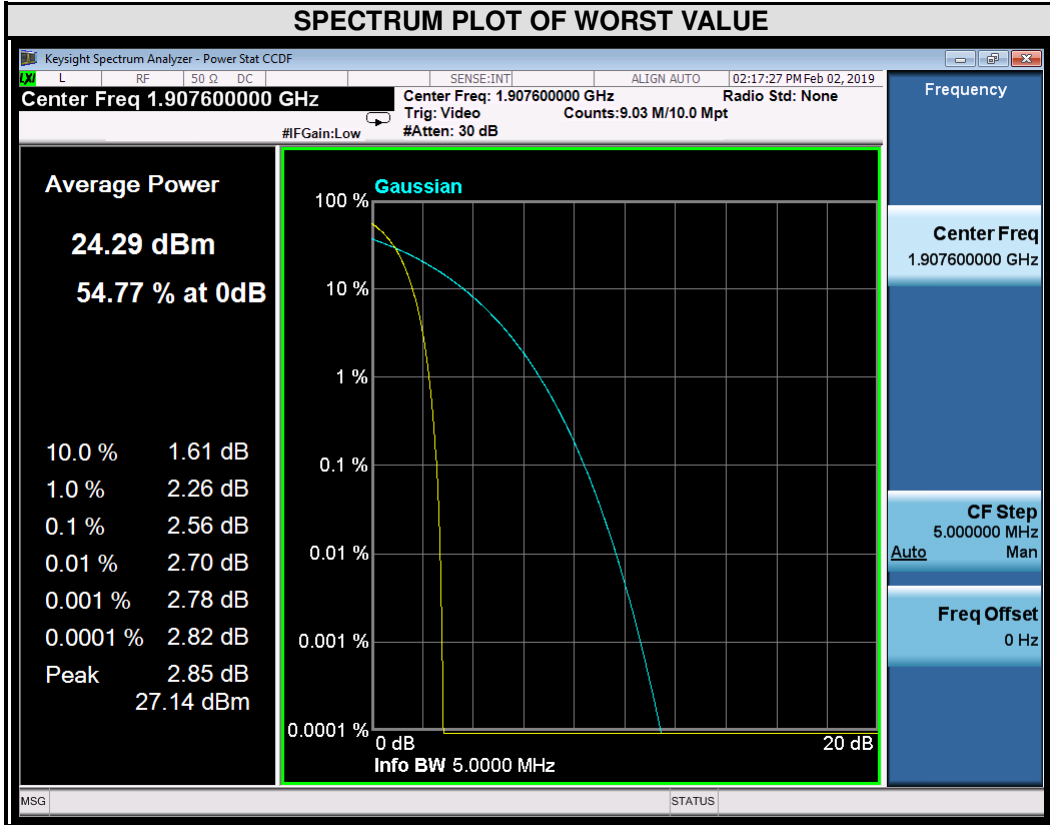


| CHANNEL | FREQUENCY (MHz) | PEAK TO AVERAGE RATIO (dB) |
|---------|-----------------|----------------------------|
| 9400 | 1880.0 | 2.71 |





| CHANNEL | FREQUENCY (MHz) | PEAK TO AVERAGE RATIO (dB) |
|---------|-----------------|----------------------------|
| 9538 | 1907.6 | 2.56 |





4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



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5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---