



FCC TEST REPORT (PART 24)

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|--------------------------|---|--|--|
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| | | | |
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| Product | Mobile Payment Terminal | | |
| Brand Name | PAX | | |
| Model Name | S920 | | |
| FCC ID | V5PS920LTE | | |
| Date of tests | Jul. 25, 2018 ~ Sep. 05, 2018 | | |
| The tests have bee | en carried out according to the requi | rements of the following standard: | |
| | | | |
| CONCLUSION: Th | e submitted sample was found to C | COMPLY with the test requirement | |
| | Prepared by Roger Li Engineer / Mobile Department Approved by Sam Tung Manager / Mobile Department | | |
| Roger | | | |
| Da | Date: Sep. 07, 2018 Date: Sep. 07, 2018 | | |

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| Test Re | port No.: | RF18072 | 4W016-4 |
|---------|-----------|---------|---------|
| | P • | | |

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|----|--|----|
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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|----------------|-------------------|---------------|
| RF180724W016-4 | Original release | Sep. 07, 2018 |

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 | N/A(see note) | Meet the requirement of limit. |
| 2.1049 24.238(b) | Occupied Bandwidth | N/A(see note) | Meet the requirement of limit. |
| 24.232(d) | Peak to average ratio | N/A(see note) | Meet the requirement of limit. |
| 24.238(b) | Band Edge Measurements | N/A(see note) | Meet the requirement of limit. |
| 2.1051 24.238 | Conducted Spurious Emissions | N/A(see note) | Meet the requirement of limit. |
| 2.1053 24.238 | Radiated Spurious Emissions | PASS | Meet the requirement of limit. Minimum passing margin is -14.89dB at 32.110MHz. |

Note: The product PAX S920 is fully integrated the LTE module Quectel BG96 (FCC ID: XMR201707BG96), no other modification on the LTE Module radio parameter such as power, frequency range, modulation etc., for this report only test Equivalent Isotropic Radiated and Radiated Spurious Emissions, other test data are copied from the module report. Please refer to this report for details.

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 | FREQUENCY | UNCERTAINTY |
|---------------------|---------------|-------------|
| Conducted emissions | 9kHz~30MHz | 2.66dB |
| | 9KHz ~ 30MHz | 2.68dB |
| Radiated emissions | 30MHz ~ 1GHz | 3.26dB |
| Tradiated emissions | 1GHz ~ 18GHz | 4.48dB |
| | 18GHz ~ 40GHz | 4.12dB |

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

| 2 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 | Nov. 26,16 | Nov. 25,18 |
| Bilog Antenna 2 | ETS-LINDGREN | 3143B | 00161965 | Nov. 26,16 | Nov. 25,18 |
| Horn Antenna 1 | ETS-LINDGREN | 3117 | 00168728 | Nov. 26,16 | Nov. 25,18 |
| Horn Antenna 2 | ETS-LINDGREN | 3117 | 00168692 | Nov. 26,16 | Nov. 25,18 |
| Loop antenna | Daze | ZN30900A | 0708 | Nov. 20,17 | Nov. 19,18 |
| Horn Antenna (18GHz-40GHz) | N/A | QWH-SL-18-40 -K-SG/QMS-00 361 | | Dec. 16,16 | Dec. 15,18 |
| 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.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| PRODUCT | Mobile Payment Terminal | | |
|---------------------|--|-----------------------|--|
| BRAND NAME | PAX | | |
| MODEL NAME | S920 | | |
| POWER SUPPLY | 5Vdc (adapter or host equipment) 3.6Vdc (Li-ion, battery) | | |
| MODULATION TYPE | GSM, GPRS: GMSK EDGE: GMSK, 8PSK LTE Band 2: QPSK, 16QAM | | |
| | GSM, GPRS, EDGE | 1850.2MHz ~ 1909.8MHz | |
| | LTE Band 2 Channel Bandwidth: 1.4MHz | 1850.7MHz ~ 1909.3MHz | |
| | LTE Band 2 Channel Bandwidth: 3MHz | 1851.5MHz ~ 1908.5MHz | |
| FREQUENCY RANGE | LTE Band 2 Channel Bandwidth: 5MHz | 1852.5MHz ~ 1907.5MHz | |
| | LTE Band 2 Channel Bandwidth: 10MHz | 1855.0MHz ~ 1905.0MHz | |
| | LTE Band 2 Channel Bandwidth: 15MHz | 1857.5MHz ~ 1902.5MHz | |
| | LTE Band 2 Channel Bandwidth: 20MHz | 1860.0MHz ~ 1900.0MHz | |
| | GSM | 427mW | |
| | EDGE | 251mW | |
| | LTE Band 2 Channel Bandwidth: 1.4MHz | 126mW | |
| | LTE Band 2 Channel Bandwidth: 3MHz | 129mW | |
| MAX. EIRP POWER | LTE Band 2 Channel Bandwidth: 5MHz | 125mW | |
| | LTE Band 2 Channel Bandwidth: 10MHz | 126mW | |
| | LTE Band 2 Channel Bandwidth: 15MHz | 129mW | |
| | LTE Band 2 Channel Bandwidth: 20MHz | 101mW | |
| | GSM | 246KGXW | |
| EMISSION DESIGNATOR | EDGE | 248KG7W | |
| | LTE Band 2 | QPSK: 1M11G7D | |
| | Channel Bandwidth: 1.4MHz | 16QAM: 0M95W7D | |

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| | LTE Band 2 | QPSK: 1M17G7D |
|----------------|--|----------------|
| | Channel Bandwidth: 3MHz | 16QAM: 0M99W7D |
| | LTE Band 2 | QPSK: 1M18G7D |
| | Channel Bandwidth: 5MHz | 16QAM: 1M02W7D |
| | LTE Band 2 Channel Bandwidth: 10MHz | QPSK: 1M20G7D |
| | | 16QAM: 1M19W7D |
| | LTE Band 2 Channel Bandwidth: 15MHz LTE Band 2 Channel Bandwidth: 20MHz | QPSK: 1M22G7D |
| | | 16QAM: 1M90W7D |
| | | QPSK: 1M25G7D |
| | | 16QAM: 1M15W7D |
| ANTENNA TYPE | Fixed Internal antenna with 1.0c | lBi gain |
| HW VERSION | S920-xxx-xxx-xxxx | |
| I/O PORTS | Refer to user's manual | |
| CABLE SUPPLIED | N/A | |

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. The EUT was powered by the following adapter:

| ADAPTER | |
|---------|--|
| BRAND: | Shenzhen Sorghum red Electronics Technology Co., Ltd |
| MODEL: | GLH50D1000HW |
| INPUT: | AC 100-240V, 400mA |
| OUTPUT: | DC 5V, 1000mA |

3. There were Sample A and B for this project, one carries a GPS module and the other removes it. The difference is as below, the sample A was worst and record in report

| SAMPLE | SW VERSION | GPS |
|--------|------------|-------------|
| Α | V0.0.0.1 | With GPS |
| В | V0.0.0.2 | Without GPS |

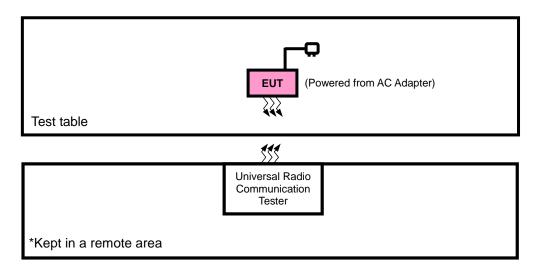
4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

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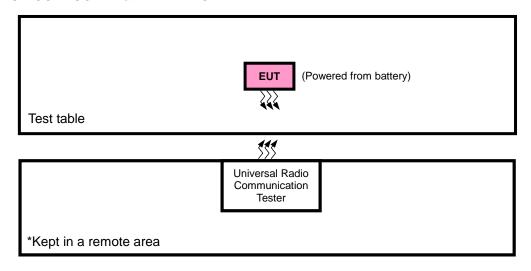


3.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



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





3.3 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. | . NO. SERIAL NO. | |
|-----|-----------|----------|-----------|------------------|-----|
| 1 | DC source | LONG WEI | PS-6403D | 6403D 010934269 | |
| 2 | PC | HP | A6608CN | 3CR83825X3 | N/A |

| N | Ο. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS | | | | | | | |
|---|----|---|--|--|--|--|--|--|--|
| | 1 | DC Line: Unshielded, Detachable 1.0m | | | | | | | |
| 2 | 2 | AC Line: Unshielded, Detachable 1.5m | | | | | | | |

NOTE:

3.4 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/EDGE/LTE. Following channel(s) was (were) selected for the final test as listed below:

| EUT CONFIGURE MODE | DESCRIPTION |
|--------------------------|--|
| Α | EUT + Adapter + USB Cable with GSM or LTE link |
| В | EUT + Battery with GSM or LTE link |

GSM MODE

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

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



LTE BAND 2

| EUT CONFIGURE MODE | TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|--------------------------|------------------------|----------------------|---------------------|----------------------|------------|----------------------|
| | | 18607 to 19193 | 18607, 18900, 19193 | 1.4MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| | | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| В | EIRP | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| 5 | LIIVI | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| | | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| | | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| | | 18607 to 19193 | 18607, 19193 | 1.4MHz | QPSK | 1 RB / 0 RB Offset |
| | FREQUENCY STABILITY | 18615 to 19185 | 18615, 19185 | 3MHz | QPSK | 1 RB / 0 RB Offset |
| В | | 18625 to 19175 | 18625, 19175 | 5MHz | QPSK | 1 RB / 0 RB Offset |
| В | | 18650 to 19150 | 18650, 19150 | 10MHz | QPSK | 1 RB / 0 RB Offset |
| | | 18675 to 19125 | 18675, 19125 | 15MHz | QPSK | 1 RB / 0 RB Offset |
| | | 18700 to 19100 | 18700, 19100 | 20MHz | QPSK | 1 RB / 0 RB Offset |
| | | 18607 to 19193 | 18607, 18900, 19193 | 1.4MHz | QPSK,16QAM | 6 RB / 0 RB Offset |
| | | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK,16QAM | 15 RB / 0 RB Offset |
| В | OCCUPIED | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK,16QAM | 25 RB / 0 RB Offset |
| В | BANDWIDTH | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK,16QAM | 50 RB / 0 RB Offset |
| | | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK,16QAM | 75 RB / 0 RB Offset |
| | | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK,16QAM | 100 RB / 0 RB Offset |
| | | 18607 to 19193 | 18607, 18900, 19193 | 1.4MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| | | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| В | PEAK TO AVERAGE | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| ט | RATIO | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| | | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| | | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK,16QAM | 1 RB / 0 RB Offset |



| | | | | | | 1 RB / 0 RB Offset |
|-----|-------------|----------------|---------------------|---------|--------|----------------------|
| | | | 18607 | 1.4MHz | QPSK | 6 RB / 0 RB Offset |
| | | 18607 to 19193 | | | | 1 RB / 5 RB Offset |
| | | | 19193 | 1.4MHz | QPSK | 6 RB / 0 RB Offset |
| | | | | | | 1 RB / 0 RB Offset |
| | | | 18615 | 3MHz | QPSK | 15 RB / 0 RB Offset |
| | | 18615 to 19185 | 40405 | 01411 | | 1 RB / 14 RB Offset |
| | | | 19185 | 3MHz | QPSK | 15 RB / 0 RB Offset |
| | | | | | | 1 RB / 0 RB Offset |
| | | | 18625 | 5MHz | QPSK | 25 RB / 0 RB Offset |
| | | 18625 to 19175 | 40475 | CN411- | | 1 RB / 24 RB Offset |
| | BAND EDGE | | 19175 | 5MHz | QPSK | 25 RB / 0 RB Offset |
| В | | | | | | 1 RB / 0 RB Offset |
| | | | 18650 | 10MHz | QPSK | 50 RB / 0 RB Offset |
| | | 18650 to 19150 | 40450 | 40141- | | 1 RB / 49 RB Offset |
| | | | 19150 | 10MHz | QPSK | 50 RB / 0 RB Offset |
| | | 18675 to 19125 | 18675 | 4-1411 | | 1 RB / 0 RB Offset |
| | | | | 15MHz | QPSK | 75 RB / 0 RB Offset |
| | | | 19125 | 451411- | QPSK | 1 RB / 74 RB Offset |
| | | | | 15MHz | | 75 RB / 0 RB Offset |
| | | | 18700 | 20MHz | opol(| 1 RB / 0 RB Offset |
| | | 40700 / 40400 | | | QPSK | 100 RB / 0 RB Offset |
| | | 18700 to 19100 | | | o Dole | 1 RB / 99 RB Offset |
| | | | 19100 | 20MHz | QPSK | 100 RB / 0 RB Offset |
| | | 18607 to 19193 | 18607, 18900, 19193 | 1.4MHz | QPSK | 1 RB / 0 RB Offset |
| | | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK | 1 RB / 0 RB Offset |
| В | CONDCUDETED | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK | 1 RB / 0 RB Offset |
| | EMISSION | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK | 1 RB / 0 RB Offset |
| | | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK | 1 RB / 0 RB Offset |
| | | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK | 1 RB / 0 RB Offset |
| | | 18607 to 19193 | 18900 | 1.4MHz | QPSK | 1 RB / 0 RB Offset |
| | | 18615 to 19185 | 18900 | 3MHz | QPSK | 1 RB / 0 RB Offset |
| А | RADIATED | 18625 to 19175 | 18900 | 5MHz | QPSK | 1 RB / 0 RB Offset |
| , , | EMISSION | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK | 1 RB / 0 RB Offset |
| | | 18675 to 19125 | 18900 | 15MHz | QPSK | 1 RB / 0 RB Offset |
| | | 18700 to 19100 | 18900 | 20MHz | QPSK | 1 RB / 0 RB Offset |

TEST CONDITION:

| TEST ITEM | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|-----------------------|--------------------------|---------------------|--------------|
| EIRP | 25deg. C, 57%RH | 3.6Vdc from Battery | Vincent Chen |
| FREQUENCY STABILITY | 23deg. C, 61%RH | DC 4.75V/5V/5.25V | Bert Ma |
| OCCUPIED BANDWIDTH | 23deg. C, 61%RH | 3.6Vdc from Battery | Bert Ma |
| PEAK TO AVERAGE RATIO | 23deg. C, 61%RH | 3.6Vdc from Battery | Bert Ma |
| BAND EDGE | 23deg. C, 61%RH | 3.6Vdc from Battery | Bert Ma |
| CONDCUDETED EMISSION | 23deg. C, 61%RH | 3.6Vdc from Battery | Bert Ma |
| RADIATED EMISSION | 23deg. C, 70%RH | 5Vdc from adapter | Vincent Chen |

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3.5 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

3.6 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.

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4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP.

4.1.2 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, EDGE, and 10MHz for LTE 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 = Output power level of S.G TX cable loss + Antenna gain of substitution horn.

CONDUCTED POWER MEASUREMENT:

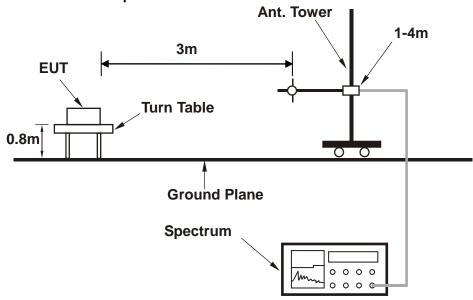
The EUT was set up for the maximum power with GSM, GPRS, EDGE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



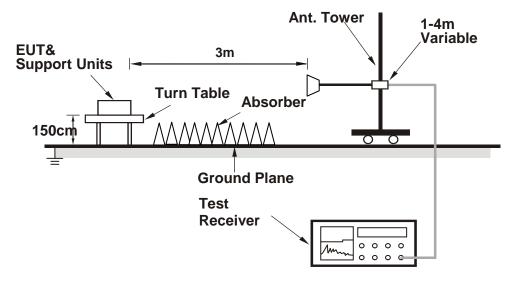
4.1.3 TEST SETUP

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

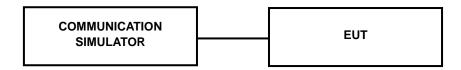


<Radiated Emission above 1 GHz>



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

CONDUCTED POWER MEASUREMENT:



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4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

The test results was recorded in Report No.:RXA1706-0199RF02R1.

EIRP POWER (dBm)

GSM

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|
| 512 | 1850.2 | -18.45 | 43.83 | 25.38 | 345.14 | Н |
| 661 | 1880.0 | -18.39 | 43.57 | 25.18 | 329.61 | Н |
| 810 | 1909.8 | -18.27 | 44.57 | 26.30 | 426.58 | Н |
| 512 | 1850.2 | -27.55 | 46.39 | 18.84 | 76.56 | V |
| 661 | 1880.0 | -26.48 | 47.10 | 20.62 | 115.29 | V |
| 810 | 1909.8 | -26.45 | 45.98 | 19.53 | 89.66 | V |

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).

2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss

EDGE

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|
| 512 | 1850.2 | -21.45 | 43.83 | 22.38 | 172.98 | Н |
| 661 | 1880.0 | -21.33 | 43.57 | 22.24 | 167.49 | Н |
| 810 | 1909.8 | -20.57 | 44.57 | 24.00 | 251.19 | Н |
| 512 | 1850.2 | -29.45 | 46.39 | 16.94 | 49.43 | V |
| 661 | 1880.0 | -28.66 | 47.10 | 18.44 | 69.79 | V |
| 810 | 1909.8 | -27.52 | 45.98 | 18.46 | 70.08 | V |

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).

2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss



LTE BAND 2

CHANNEL BANDWIDTH: 1.4MHz QPSK

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18607 | 1850.7 | -23.01 | 43.83 | 20.82 | 120.89 | Н | 2 |
| 18900 | 1880.0 | -23.15 | 43.57 | 20.42 | 110.15 | Н | 2 |
| 19193 | 1909.3 | -23.32 | 44.32 | 21.00 | 125.86 | Н | 2 |
| 18607 | 1850.7 | -32.42 | 46.41 | 13.99 | 25.07 | V | 2 |
| 18900 | 1880.0 | -33.00 | 47.07 | 14.07 | 25.53 | V | 2 |
| 19193 | 1909.3 | -31.23 | 45.88 | 14.65 | 29.20 | V | 2 |

CHANNEL BANDWIDTH: 1.4MHz 16QAM

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18607 | 1850.7 | -23.88 | 43.83 | 19.95 | 98.95 | Н | 2 |
| 18900 | 1880.0 | -24.08 | 43.57 | 19.49 | 88.92 | Н | 2 |
| 19193 | 1909.3 | -24.28 | 44.32 | 20.04 | 100.90 | Н | 2 |
| 18607 | 1850.7 | -33.29 | 46.41 | 13.12 | 20.52 | V | 2 |
| 18900 | 1880.0 | -33.93 | 47.07 | 13.14 | 20.61 | V | 2 |
| 19193 | 1909.3 | -32.19 | 45.88 | 13.69 | 23.41 | V | 2 |

CHANNEL BANDWIDTH: 3MHz QPSK

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18615 | 1851.5 | -22.99 | 43.82 | 20.83 | 121.12 | Н | 2 |
| 18900 | 1880.0 | -23.21 | 43.57 | 20.36 | 108.64 | Н | 2 |
| 19185 | 1908.5 | -23.27 | 44.38 | 21.11 | 129.00 | Н | 2 |
| 18615 | 1851.5 | -32.40 | 46.45 | 14.05 | 25.42 | V | 2 |
| 18900 | 1880.0 | -33.06 | 47.07 | 14.01 | 25.18 | V | 2 |
| 19185 | 1908.5 | -31.18 | 45.88 | 14.70 | 29.51 | V | 2 |



CHANNEL BANDWIDTH: 3MHz 16QAM

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18615 | 1851.5 | -24.06 | 43.82 | 19.76 | 94.67 | Н | 2 |
| 18900 | 1880.0 | -24.10 | 43.57 | 19.47 | 88.51 | Н | 2 |
| 19185 | 1908.5 | -24.26 | 44.38 | 20.12 | 102.71 | Н | 2 |
| 18615 | 1851.5 | -33.47 | 46.45 | 12.98 | 19.87 | V | 2 |
| 18900 | 1880.0 | -33.95 | 47.07 | 13.12 | 20.51 | V | 2 |
| 19185 | 1908.5 | -32.17 | 45.88 | 13.71 | 23.50 | V | 2 |

CHANNEL BANDWIDTH: 5MHz QPSK

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18625 | 1852.5 | -23.05 | 43.83 | 20.78 | 119.62 | Н | 2 |
| 18900 | 1880.0 | -23.16 | 43.57 | 20.41 | 109.90 | Н | 2 |
| 19175 | 1907.5 | -23.22 | 44.19 | 20.97 | 124.97 | Н | 2 |
| 18625 | 1852.5 | -32.46 | 46.46 | 14.00 | 25.14 | V | 2 |
| 18900 | 1880.0 | -33.01 | 47.07 | 14.06 | 25.47 | V | 2 |
| 19175 | 1907.5 | -31.13 | 45.89 | 14.76 | 29.93 | V | 2 |

CHANNEL BANDWIDTH: 5MHz 16QAM

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18625 | 1852.5 | -23.88 | 43.83 | 19.95 | 98.81 | Н | 2 |
| 18900 | 1880.0 | -24.18 | 43.57 | 19.39 | 86.90 | Н | 2 |
| 19175 | 1907.5 | -24.32 | 44.19 | 19.87 | 97.01 | Н | 2 |
| 18625 | 1852.5 | -33.29 | 46.46 | 13.17 | 20.76 | V | 2 |
| 18900 | 1880.0 | -34.03 | 47.07 | 13.04 | 20.14 | V | 2 |
| 19175 | 1907.5 | -32.23 | 45.89 | 13.66 | 23.23 | V | 2 |

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CHANNEL BANDWIDTH: 10MHz QPSK

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18650 | 1855.0 | -22.86 | 43.86 | 21.00 | 125.92 | Н | 2 |
| 18900 | 1880.0 | -23.10 | 43.57 | 20.47 | 111.43 | Н | 2 |
| 19150 | 1905.0 | -23.09 | 43.99 | 20.90 | 123.14 | Н | 2 |
| 18650 | 1855.0 | -32.27 | 46.28 | 14.01 | 25.17 | V | 2 |
| 18900 | 1880.0 | -32.95 | 47.07 | 14.12 | 25.82 | V | 2 |
| 19150 | 1905.0 | -31.00 | 45.92 | 14.92 | 31.06 | V | 2 |

CHANNEL BANDWIDTH: 10MHz 16QAM

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18650 | 1855.0 | -24.01 | 43.86 | 19.85 | 96.63 | Н | 2 |
| 18900 | 1880.0 | -24.20 | 43.57 | 19.37 | 86.50 | Н | 2 |
| 19150 | 1905.0 | -24.25 | 43.99 | 19.74 | 94.28 | Н | 2 |
| 18650 | 1855.0 | -33.42 | 46.28 | 12.86 | 19.31 | V | 2 |
| 18900 | 1880.0 | -34.05 | 47.07 | 13.02 | 20.04 | V | 2 |
| 19150 | 1905.0 | -32.16 | 45.92 | 13.76 | 23.78 | V | 2 |

CHANNEL BANDWIDTH: 15MHz QPSK

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18675 | 1857.5 | -22.87 | 43.99 | 21.12 | 129.48 | Н | 2 |
| 18900 | 1880.0 | -23.17 | 43.57 | 20.40 | 109.65 | Н | 2 |
| 19125 | 1902.5 | -23.16 | 43.66 | 20.50 | 112.07 | Н | 2 |
| 18675 | 1857.5 | -32.28 | 45.93 | 13.65 | 23.16 | V | 2 |
| 18900 | 1880.0 | -33.02 | 47.07 | 14.05 | 25.41 | V | 2 |
| 19125 | 1902.5 | -31.07 | 46.20 | 15.13 | 32.60 | V | 2 |



CHANNEL BANDWIDTH: 15MHz 16QAM

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18675 | 1857.5 | -23.73 | 43.99 | 20.26 | 106.22 | Н | 2 |
| 18900 | 1880.0 | -24.04 | 43.57 | 19.53 | 89.74 | Н | 2 |
| 19125 | 1902.5 | -24.01 | 43.66 | 19.65 | 92.15 | Н | 2 |
| 18675 | 1857.5 | -33.14 | 45.93 | 12.79 | 19.00 | V | 2 |
| 18900 | 1880.0 | -33.89 | 47.07 | 13.18 | 20.80 | V | 2 |
| 19125 | 1902.5 | -31.92 | 46.20 | 14.28 | 26.80 | V | 2 |

CHANNEL BANDWIDTH: 20MHz QPSK

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18700 | 1860.0 | -23.45 | 43.50 | 20.05 | 101.13 | Н | 2 |
| 18900 | 1880.0 | -23.62 | 43.57 | 19.95 | 98.86 | Н | 2 |
| 19100 | 1900.0 | -23.74 | 43.62 | 19.88 | 97.19 | Н | 2 |
| 18700 | 1860.0 | -32.86 | 45.57 | 12.71 | 18.66 | V | 2 |
| 18900 | 1880.0 | -33.47 | 47.07 | 13.60 | 22.91 | V | 2 |
| 19100 | 1900.0 | -31.65 | 46.26 | 14.61 | 28.91 | V | 2 |

CHANNEL BANDWIDTH: 20MHz 16QAM

| Channel | Frequency (MHz) | SPA LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) | LIMIT (W) |
|---------|--------------------|------------------|--------------------------|-----------|----------|-----------------------|--------------|
| 18700 | 1860.0 | -24.38 | 43.50 | 19.12 | 81.64 | Н | 2 |
| 18900 | 1880.0 | -24.69 | 43.57 | 18.88 | 77.27 | Н | 2 |
| 19100 | 1900.0 | -24.57 | 43.62 | 19.05 | 80.28 | Н | 2 |
| 18700 | 1860.0 | -33.79 | 45.57 | 11.78 | 15.07 | V | 2 |
| 18900 | 1880.0 | -34.54 | 47.07 | 12.53 | 17.91 | V | 2 |
| 19100 | 1900.0 | -32.48 | 46.26 | 13.78 | 23.88 | V | 2 |

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).

2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss

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4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

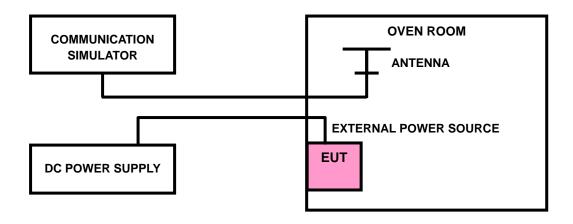
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.2.2 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 $\pm 0.5^{\circ}$ 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.

4.2.3 TEST SETUP



4.2.4 TEST RESULTS

The test results was recorded in Report No.:RXA1706-0199RF02R1.

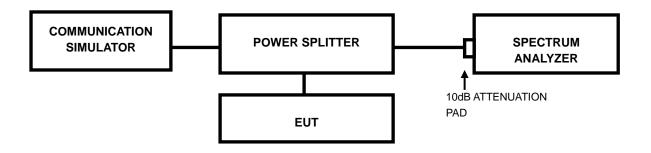
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4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 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.

4.3.2 TEST SETUP



4.3.3 TEST RESULTS

The test results was recorded in Report No.:RXA1706-0199RF02R1.

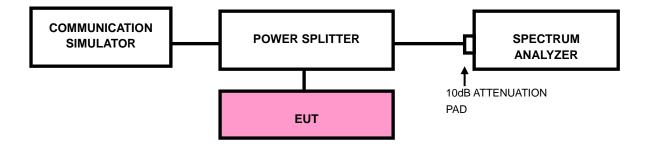


4.4 BAND EDGE MEASUREMENT

4.4.1 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.

4.4.2 TEST SETUP





4.4.3 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1.5MHz. RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (GSM/GPRS/EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 20kHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz)
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz)
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 50kHz and VBW of the spectrum is 200kHz. (LTE bandwidth 5MHz)
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz)
- g. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 15MHz)
- h. he center frequency of spectrum is the band edge frequency and span is 1~5 MHz.
 RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 20MHz)
- i. Record the max trace plot into the test report.

4.4.4 TEST RESULTS

The test results was recorded in Report No.:RXA1706-0199RF02R1.

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4.5 CONDUCTED SPURIOUS EMISSIONS

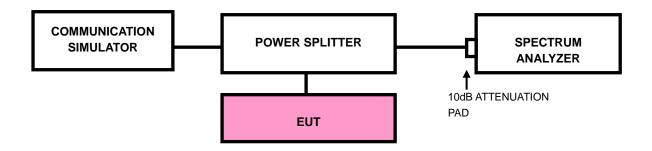
4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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.

4.5.2 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.

4.5.3 TEST SETUP



4.5.4 TEST RESULTS

The test results was recorded in Report No.:RXA1706-0199RF02R1.

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4.6 RADIATED EMISSION MEASUREMENT

4.6.1 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.

4.6.2 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. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.

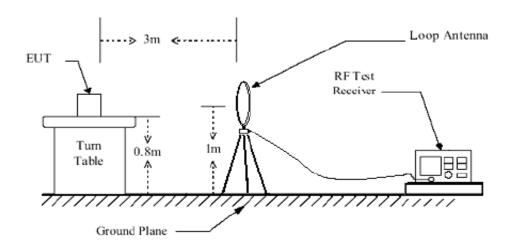
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.6.3 DEVIATION FROM TEST STANDARD

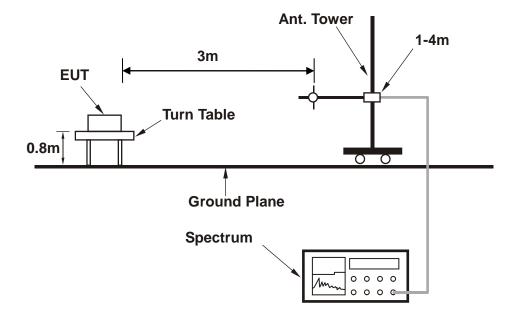
No deviation



4.6.4 TEST SETUP <Below 30MHz>



< Frequency Range 30MHz~1GHz >

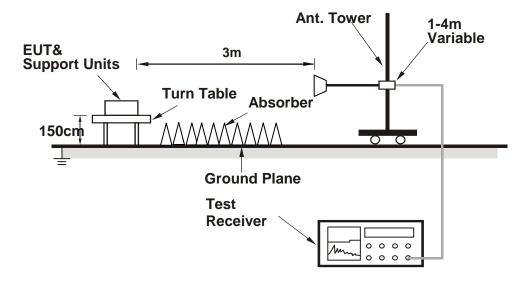


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< Frequency Range above 1GHz >



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



4.6.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

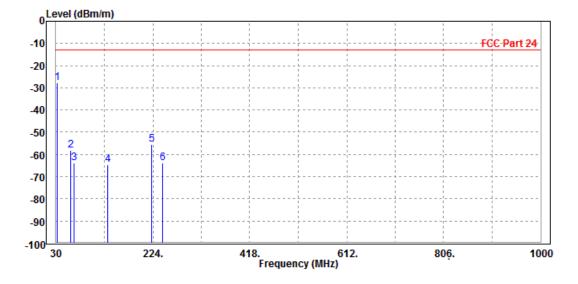
9 KHz – 30 MHz data: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz – 1GHz data:

LTE Band 2

| MODE | TX channel 18900 | FREQUENCY RANGE | Below 1000MHz | | | | | |
|---|-----------------------|-----------------|--------------------|--|--|--|--|--|
| ENVIRONMENTAL CONDITIONS 23deg. C, 70%RH | | INPUT POWER | DC 5V from adapter | | | | | |
| TESTED BY | ESTED BY Vincent Chen | | | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |

| | | | Read | Limit | 0ver | | | |
|------|---------|--------|--------|--------|--------|--------|--------|------------|
| | Freq | Level | Level | Line | Limit | Factor | Remark | Pol/Phase |
| _ | | | | | | | | |
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| | | | | | | | | |
| 1 PP | 32.110 | -27.89 | -44.33 | -13.00 | -14.89 | 16.44 | Peak | Horizontal |
| 2 | 59.660 | -58.15 | -51.33 | -13.00 | -45.15 | -6.82 | Peak | Horizontal |
| 3 | 66.970 | -63.80 | -53.01 | -13.00 | -50.80 | -10.79 | Peak | Horizontal |
| 4 | 134.480 | -64.60 | -46.99 | -13.00 | -51.60 | -17.61 | Peak | Horizontal |
| 5 | 222.180 | -55.58 | -38.77 | -13.00 | -42.58 | -16.81 | Peak | Horizontal |
| 6 | 242.770 | -63.96 | -47.54 | -13.00 | -50.96 | -16.42 | Peak | Horizontal |

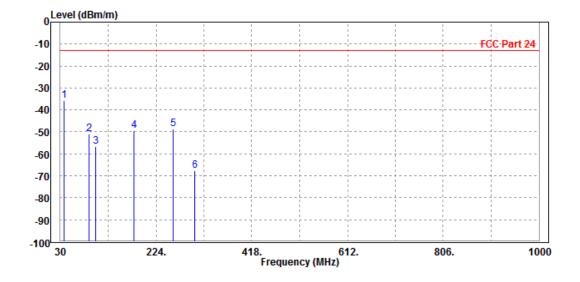


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| MODE | TX channel 18900 | FREQUENCY RANGE | Below 1000MHz | | | | |
|---|------------------|-----------------|--------------------|--|--|--|--|
| ENVIRONMENTAL CONDITIONS 23deg. C, 70%RH | | INPUT POWER | DC 5V from adapter | | | | |
| TESTED BY | Vincent Chen | | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |

| | Freq | Level | Read Level | | Over Limit | Factor | Remark | Pol/Phase |
|------|---------|--------|---------------|--------|---------------|--------|--------|-----------|
| _ | | | | | | | | |
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 PP | 38.170 | -35.85 | -34.56 | -13.00 | -22.85 | -1.29 | Peak | Vertical |
| 2 | 88.780 | -50.98 | -40.48 | -13.00 | -37.98 | -10.50 | Peak | Vertical |
| 3 | 101.440 | -56.70 | -45.84 | -13.00 | -43.70 | -10.86 | Peak | Vertical |
| 4 | 179.000 | -49.38 | -36.11 | -13.00 | -36.38 | -13.27 | Peak | Vertical |
| 5 | 259.420 | -48.63 | -37.15 | -13.00 | -35.63 | -11.48 | Peak | Vertical |
| 6 | 301.810 | -67.77 | -56.48 | -13.00 | -54.77 | -11.29 | Peak | Vertical |





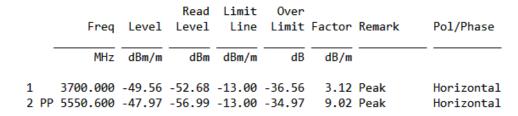
ABOVE 1GHz DATA

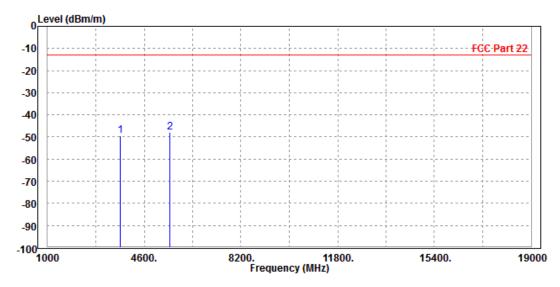
Note: For higher frequency, the emission is too low to be detected.

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 | Vincent Chen | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | |

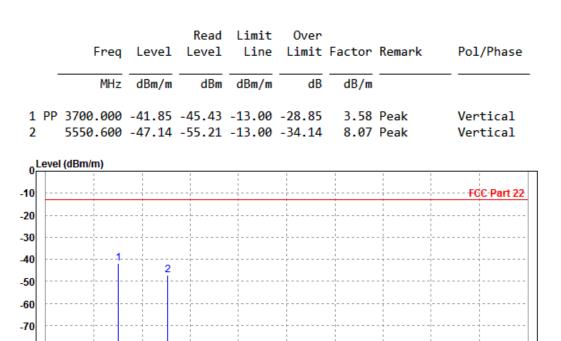




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| MODE | TX channel 512 | FREQUENCY RANGE | Above 1000MHz | | | |
|---|-----------------|-----------------|--------------------|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | |
| TESTED BY | Vincent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



8200. 11800. Frequency (MHz)

15400.

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19000

-80 -90

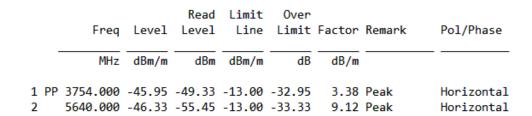
-100 1000

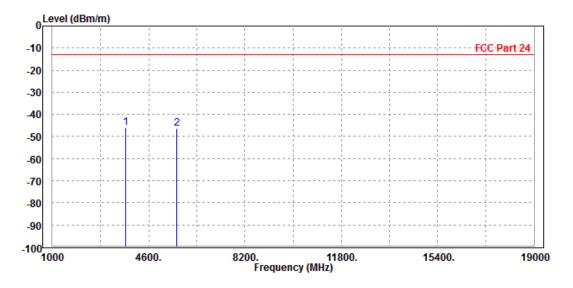
4600.



CH 661

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

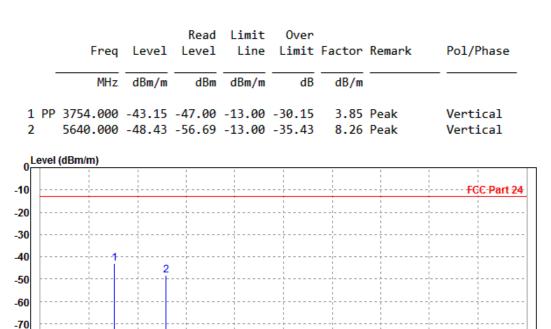




Tel: +86 755 8869 6566



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



8200. 11800. Frequency (MHz)

15400.

Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

19000

-80 -90

-100 1000

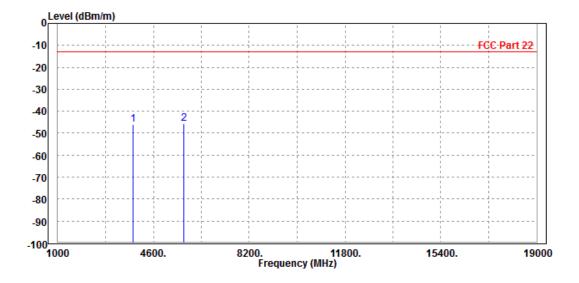
4600.



CH 810

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

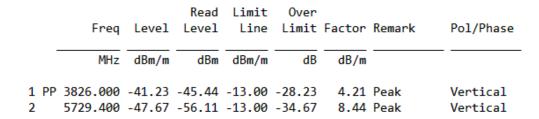
| | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase |
|-----------|----------------------|-------|-----|---------------|----|--------|--------|--------------------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 2 PF | 3826.000 5729.400 | | | | | | | Horizontal Horizontal |

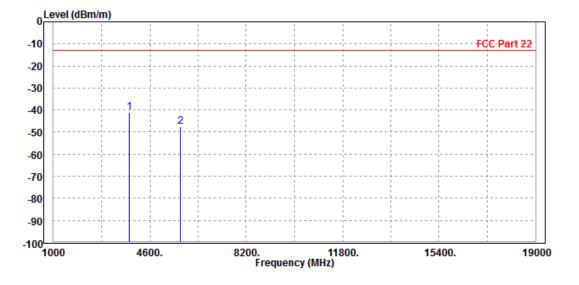


Tel: +86 755 8869 6566



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



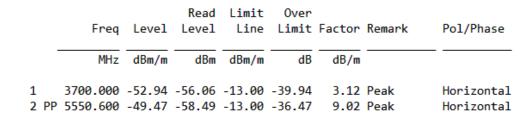


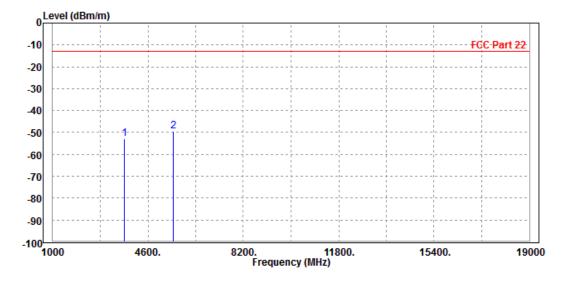


EDGE 1900:

CH 512

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



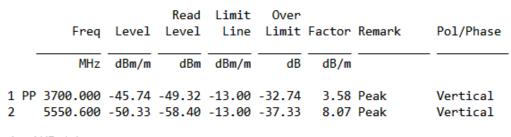


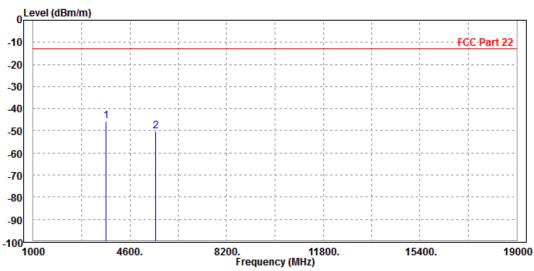
Email: customerservice.dg@cn.bureauveritas.com

BV 7Layers Communications Technology



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

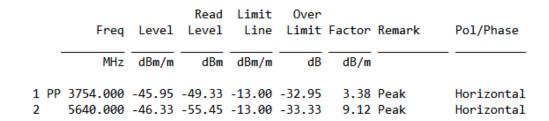


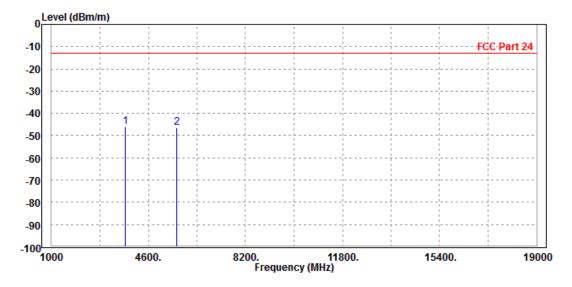




CH 661

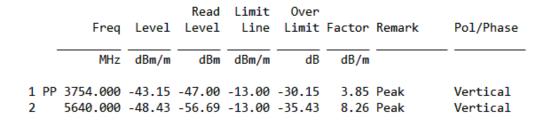
| MODE | TX channel 661 | FREQUENCY RANGE | Above 1000MHz | | | |
|---|------------------------|-----------------|--------------------|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | |
| TESTED BY | TESTED BY Vincent Chen | | | | | |
| ANTENNA POLARITY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

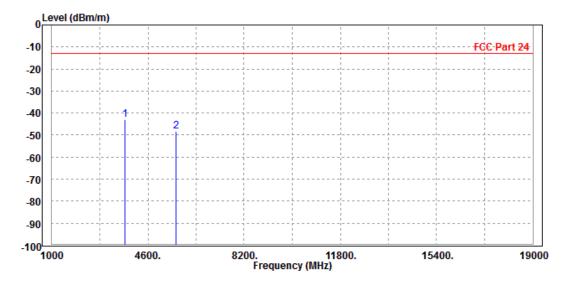






| MODE | TX channel 661 | FREQUENCY RANGE | Above 1000MHz | | |
|---|-----------------|-----------------|--------------------|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | |
| TESTED BY | Vincent Chen | | | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL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



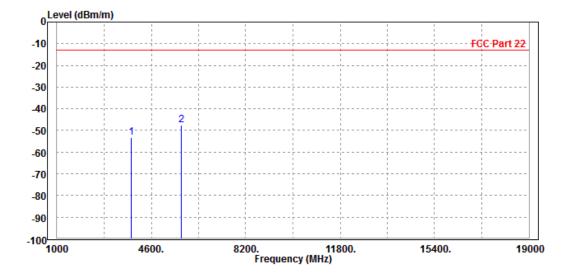




CH 810

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

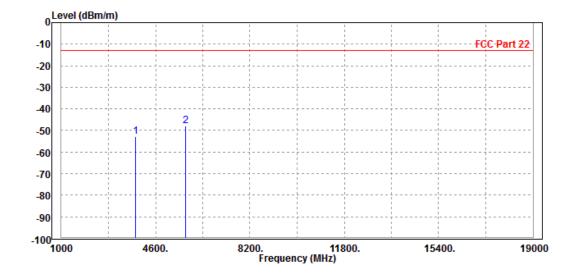
| | | | Read | Limit | 0ver | | | |
|------|----------|--------|--------|--------|--------|--------|--------|------------|
| | Freq | Level | Level | Line | Limit | Factor | Remark | Pol/Phase |
| _ | | | | | | | | |
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| | | | | | | | | |
| 1 | 3826.000 | -53.31 | -57.04 | -13.00 | -40.31 | 3.73 | Peak | Horizontal |
| 2 PP | 5729.400 | -47.47 | -56.69 | -13.00 | -34.47 | 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 | Vincent Chen | | | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | |

| | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase |
|---|----------------------|-------|-----|---------------|----|--------|--------|----------------------|
| - | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| | 3826.000 5729.400 | | | | | | | Vertical Vertical |



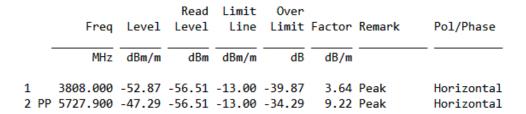
Tel: +86 755 8869 6566

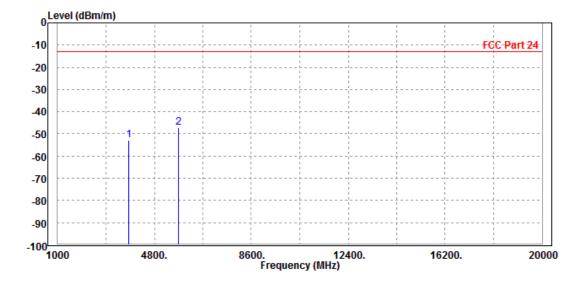


LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

| MODE | TX channel 18900 | FREQUENCY RANGE | Above 1000MHz | | | |
|---|------------------|-----------------|--------------------|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | |
| TESTED BY | Vincent Chen | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | |

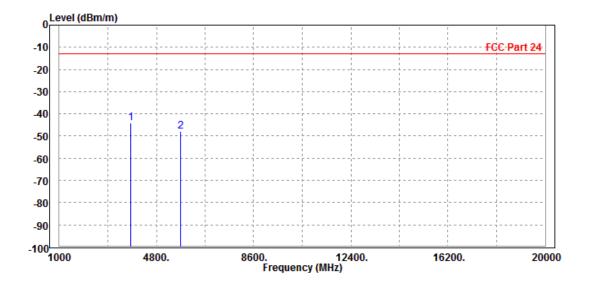






| MODE | TX channel 18900 | FREQUENCY RANGE | Above 1000MHz | | | |
|---|------------------|-----------------|--------------------|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | |
| TESTED BY | Vincent Chen | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | |

| | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase |
|---|----------------------|-------|-----|---------------|----|--------|--------|----------------------|
| - | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| | 3808.000 5727.900 | | | | | | | Vertical Vertical |

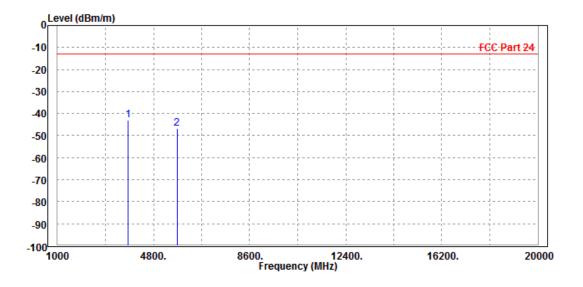




CHANNEL BANDWIDTH: 3MHz / QPSK

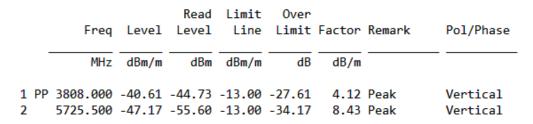
| MODE TX channel 18900 | | FREQUENCY RANGE | Above 1000MHz | | | |
|---|------------------------|-----------------|--------------------|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | |
| TESTED BY | TESTED BY Vincent Chen | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | |

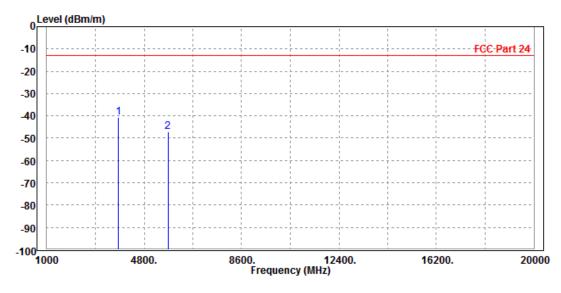
| | | | Read | Limit | 0ver | | | |
|------|----------|--------|--------|--------|--------|--------|--------|------------|
| | Freq | Level | Level | Line | Limit | Factor | Remark | Pol/Phase |
| | | | | | | | | |
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| | | | | | | | | |
| 1 PP | 3808.000 | -42.91 | -46.55 | -13.00 | -29.91 | 3.64 | Peak | Horizontal |
| 2 | 5725.500 | -46.80 | -56.02 | -13.00 | -33.80 | 9.22 | Peak | Horizontal |





| MODE | TX channel 18900 | FREQUENCY RANGE | Above 1000MHz | | |
|---|------------------|-----------------|--------------------|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | |
| TESTED BY | Vincent Chen | | | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | |



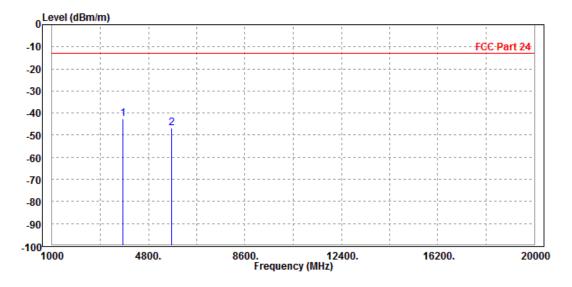




CHANNEL BANDWIDTH: 5MHz / QPSK

| MODE | TX channel 18900 | FREQUENCY RANGE | Above 1000MHz | | | | | |
|---|------------------|-----------------|--------------------|--|--|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | | | |
| TESTED BY | Vincent Chen | ncent Chen | | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |

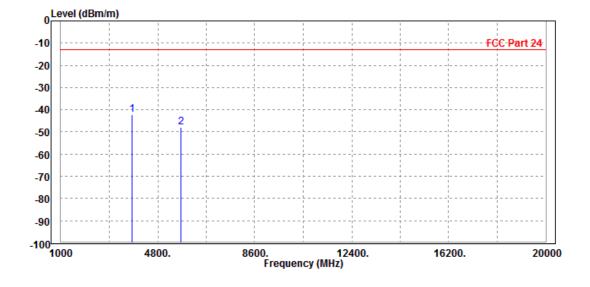
| | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase |
|-----------|----------------------|-------|-----|---------------|------|--------|--------|--------------------------|
| | MHz | dBm/m | dBm | dBm/m | ——dB | dB/m | | |
| 1 PP 2 | 3808.000 5722.500 | | | | | | | Horizontal Horizontal |





| MODE | TX channel 18900 | FREQUENCY RANGE | Above 1000MHz | | | | |
|---|------------------|-----------------|--------------------|--|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | | |
| TESTED BY | Vincent Chen | Vincent Chen | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |

| | | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase |
|--------|----|----------------------|-------|-----|---------------|----|--------|--------|----------------------|
| | - | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 2 | PP | 3808.000 5722.500 | | | | | | | Vertical Vertical |



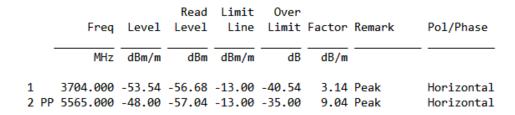
Tel: +86 755 8869 6566

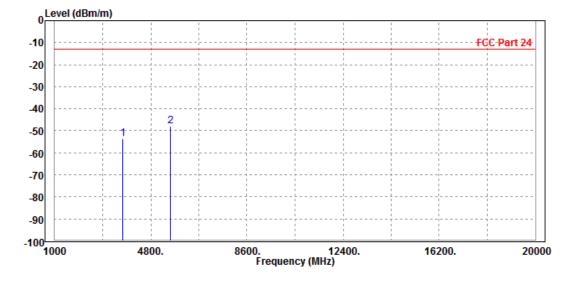


CHANNEL BANDWIDTH: 10MHz / QPSK

CH18650

| MODE | TX channel 18650 | FREQUENCY RANGE | Above 1000MHz | | | | | |
|---|------------------|-----------------|--------------------|--|--|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | | | |
| TESTED BY | Vincent Chen | ncent Chen | | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |

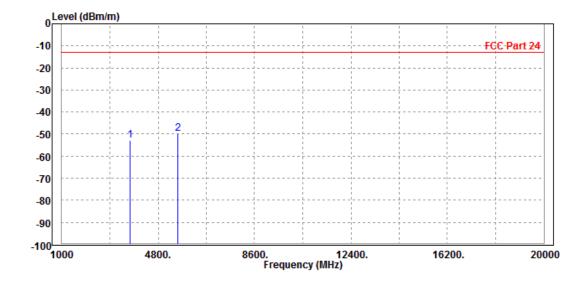






| MODE | TX channel 18650 | FREQUENCY RANGE | Above 1000MHz | | | |
|---|------------------|-----------------|--------------------|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | |
| TESTED BY | Vincent Chen | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | |

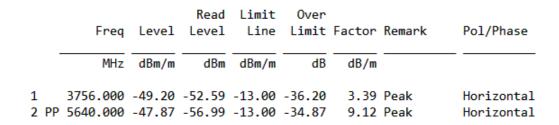
| | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase |
|---|----------------------|-------|-----|---------------|----|--------|--------|----------------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| _ | 3704.000 5565.000 | | | | | | | Vertical Vertical |

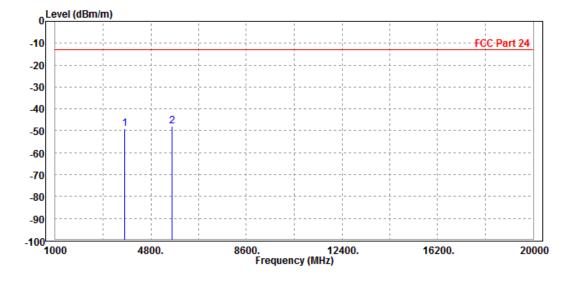




CH18900

| MODE | TX channel 18900 | FREQUENCY RANGE | Above 1000MHz | | | | |
|---|------------------|-----------------|--------------------|--|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | | |
| TESTED BY | Vincent Chen | | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | |





th Area, Hi-Tech Industrial Park, Nanshan

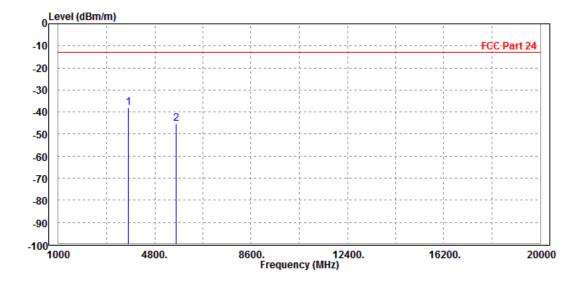
Fax: +86 755 8869 6577

Email: customerservice.dg@cn.bureauveritas.com



| MODE | TX channel 18900 | FREQUENCY RANGE | Above 1000MHz | | |
|---|------------------|-----------------|--------------------|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | |
| TESTED BY | Vincent Chen | | | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | |

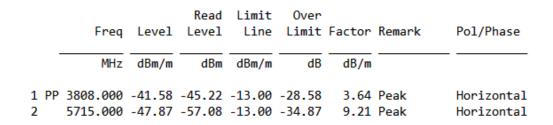
| | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase |
|---|----------------------|-------|-------|---------------|------|--------|--------|----------------------|
| _ | MHz | dBm/m | ——dBm | dBm/m | ——dB | dB/m | | |
| | 3756.000 5640.000 | | | | | | | Vertical Vertical |

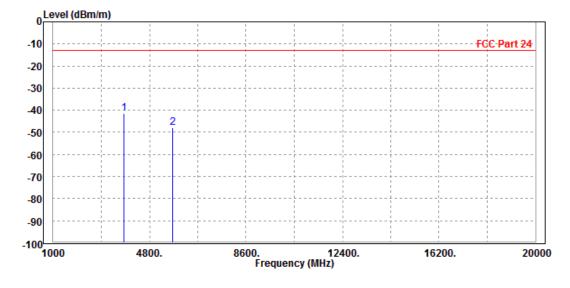




CH19150

| MODE | TX channel 19150 | FREQUENCY RANGE | Above 1000MHz | | | |
|---|------------------|-----------------|--------------------|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | |
| TESTED BY | Vincent Chen | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | |

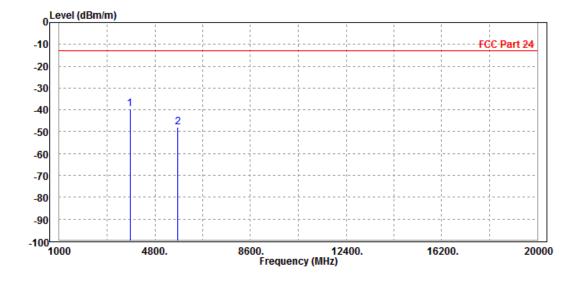






| MODE | TX channel 19150 | FREQUENCY RANGE Above 1000M | | | | | | |
|---|------------------|-----------------------------|--------------------|--|--|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | | | |
| TESTED BY | Vincent Chen | Vincent Chen | | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |

| | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase | |
|-----------|----------------------|-------|-----|---------------|------|--------|--------|----------------------|--|
| - | MHz | dBm/m | dBm | dBm/m | ——dB | dB/m | | - | |
| 1 PP 2 | 3810.000 5706.000 | | | | | | | Vertical Vertical | |

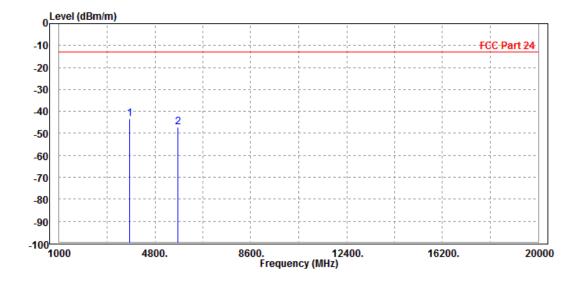




CHANNEL BANDWIDTH: 15MHz / QPSK

| MODE | TX channel 18900 | FREQUENCY RANGE | Above 1000MHz | | | | |
|---|------------------|-----------------|--------------------|--|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | | |
| TESTED BY | Vincent Chen | | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | |

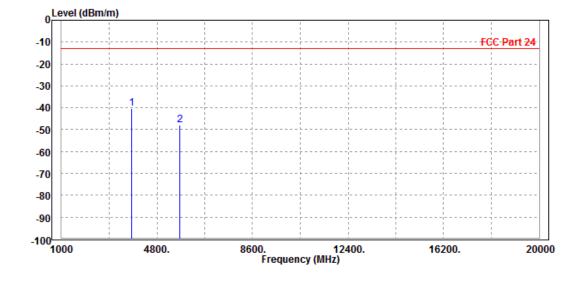
| | | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase |
|---|----|----------------------|-------|-----|---------------|----|--------|--------|--------------------------|
| | - | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP | 3808.000 5707.500 | | | | | | | Horizontal Horizontal |





| MODE TX channel 18900 | | FREQUENCY RANGE | Above 1000MHz | | | | |
|---|-----------------|-----------------|--------------------|--|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | | |
| TESTED BY | Vincent Chen | | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |

| | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase |
|-----------|----------------------|-------|-----|---------------|----|--------|--------|----------------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 PP 2 | 3808.000 5707.500 | | | | | | | Vertical Vertical |

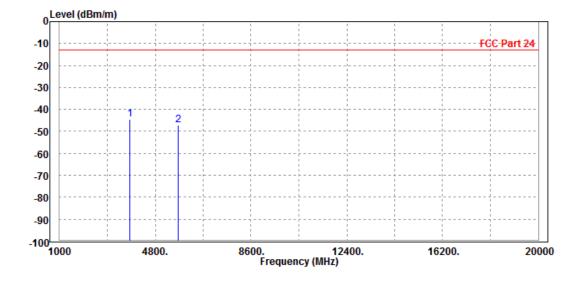




CHANNEL BANDWIDTH: 20MHz / QPSK

| MODE | TX channel 18900 | FREQUENCY RANGE | Above 1000MHz | | | | | |
|---|------------------------|-----------------|--------------------|--|--|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | | | |
| TESTED BY | TESTED BY Vincent Chen | | | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |

| | | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase |
|-----|----|----------------------|-------|-----|---------------|----|--------|--------|--------------------------|
| | - | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 2 | PP | 3808.000 5700.000 | | | | | | | Horizontal Horizontal |



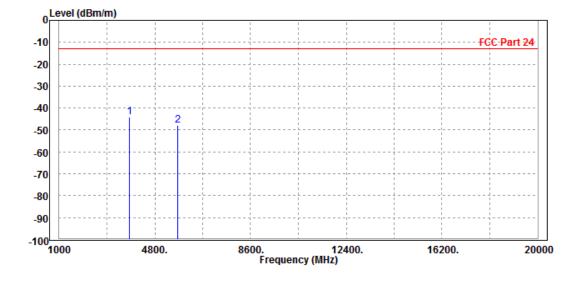
Tel: +86 755 8869 6566

Fax: +86 755 8869 6577



| MODE TX channel 18900 | | FREQUENCY RANGE | Above 1000MHz | | | | |
|---|-----------------|-----------------|--------------------|--|--|--|--|
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | DC 5V from adapter | | | | |
| TESTED BY | Vincent Chen | | | | | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |

| | | Freq | Level | | Limit Line | | Factor | Remark | Pol/Phase |
|--------|----|----------------------|-------|-----|---------------|----|--------|--------|----------------------|
| | - | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 2 | PP | 3808.000 5700.000 | | | | | | | Vertical Vertical |

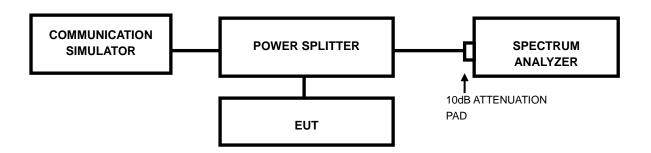


4.7 PEAK TO AVERAGE RATIO

4.7.1 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

4.7.2 TEST SETUP



4.7.3 TEST PROCEDURES

- 1. Set resolution/measurement bandwidth ≥ 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%.

4.7.4 TEST RESULTS

The test results was recorded in Report No.:RXA1706-0199RF02R1.

5 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.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.adt.com.tw

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6 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.

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