

TEST REPORT

Applicant: Shenzhen Evview GPS Technology
EUT Description: Personal Mobile Alarm System
Model: EC-W212X-V
FCC ID: 2AUMJEC-W212X-V
Standards: CFR 47, FCC Part 2
CFR 47, FCC Part 27
Date of Receipt: 2026/09/03
Date of Test: 2026/09/03 to 2026/09/16
Date of Issue: 2026/09/16

TOWE tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. Without written approval of TOWE, the test report shall not be reproduced except in full.



Jim Huang
Approved By:



Carey Chen
Reviewed By:

Revision History

Rev.	Issue Date	Description	Revised by
01	2026/09/16	Original	Carey Chen

Summary of Test Results

FCC Part	Test Band	Test Item	Test Result
§2.1046 §27.50(b)(10)	LTE Band 13	Effective Radiated Power	Pass*
§2.1046 §27.50(d)(4)	LTE Band 4	Effective Isotropic Radiated Power	Pass*
§27.50(d)(5)	LTE Band 4/ LTE Band 13	Peak-Average Ratio	Reference report SHE24010061-01AE
§2.1049	LTE Band 4/ LTE Band 13	Occupied Bandwidth	
§2.1051 §27.53(c) §27.53(h)	LTE Band 13 LTE Band 4	Band Edge	
§2.1051 §27.53(c) §27.53(h)	LTE Band 13 LTE Band 4	Spurious Emission at Antenna Terminals	
§2.1055 §27.54	LTE Band 4/ LTE Band 13	Frequency Stability	
§2.1053 §27.53(c)&(f) §27.53(h)	LTE Band 13 LTE Band 4	Field Strength of Spurious Radiation	Pass
Remark: 1. Pass: Meet the requirement. 2. Pass*: The items of power data refer to the previous report, updated the ERP/EIRP and only the maximum power of all frequency bands displayed in this report.			

Remark:

In this report the Field Strength of Spurious Radiation was tested, and the other data please refer to the previous report with report number SHE24010061-01AE (FCC ID: 2AJYU-8PYA00D) issued by ICAS Testing Technology Service (Shanghai) Co., Ltd.

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1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurement tests were conducted at the Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd. facility located at F 401 and F 101, Building E, Hongwei Industrial Zone, No. 6, Liuxian 3rd Road, Zone 70, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, People's Republic of China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014

Tel.: +86-755-27212361

Contact Email: info@towewireless.com

1.1.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory.

Test Firm Registration Number: 684095

Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0152

Company Number: 31000

1.2 Client Information

1.2.1 Applicant

Applicant:	Shenzhen Eview GPS Technology
Address:	Rm 201, building 1-A, Nankechuang Yuangu, Dalang, Longhua District, Shenzhen, China

1.2.2 Manufacturer

Manufacturer:	Shenzhen Eview GPS Technology
Address:	Rm 201, building 1-A, Nankechuang Yuangu, Dalang, Longhua District, Shenzhen, China

1.3 Product Information

EUT Description:	Personal Mobile Alarm System		
Model No.:	EC-W212X-V		
Hardware Version:	EV-W212-V1.0-20260525		
Software Version:	v1.1.0.108		
Device Capabilities:			
Modulation Type:	LTE:	☒ QPSK, ☒ 16QAM	
Operation Frequency Range:	Band	TX Frequency	RX Frequency
	LTE Band 4	1710 ~ 1755 MHz	2110 ~ 2155 MHz
	LTE Band 13	777 ~ 787 MHz	746 ~ 756 MHz
Antenna Type:	Integrated antenna		
Power Class:	Class 3: All		
Antenna Gain:	Band	Ant (dBi)	
	LTE Band 4	-4.4	
	LTE Band 13	-4.9	
Remark: The above EUT's information was declared by applicant, please refer to the specifications or user manual for more detailed description.			

2 Test Configuration

2.1 Test Channel

Band	Bandwidth	TX Frequency			RX Frequency		
		Range	Channel	Frequency	Range	Channel	Frequency
LTE Band 4	1.4MHz	Low	19957	1710.7 MHz	Low	1957	2110.7 MHz
		Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz
		High	20393	1754.3 MHz	High	2393	2154.3 MHz
	3MHz	Low	19965	1711.5 MHz	Low	1965	2111.5 MHz
		Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz
		High	20385	1753.5 MHz	High	2385	2153.5 MHz
	5MHz	Low	19975	1712.5 MHz	Low	1975	2112.5 MHz
		Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz
		High	20375	1752.5 MHz	High	2375	2152.5 MHz
	10MHz	Low	20000	1715 MHz	Low	2115	2115 MHz
		Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz
		High	20350	1750 MHz	High	2350	2150 MHz
	15MHz	Low	20025	1717.5 MHz	Low	2025	2117.5 MHz
		Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz
		High	20325	1747.5 MHz	High	2325	2147.5 MHz
LTE Band 13	5MHz	Low	20050	1720 MHz	Low	2050	2120 MHz
		Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz
		High	20300	1745 MHz	High	2300	2145 MHz
	10MHz	Low	23205	779.5 MHz	Low	5205	748.5 MHz
		Middle	23230	782 MHz	Middle	5230	751 MHz
		High	23255	784.5 MHz	High	5255	753.5 MHz
	10MHz	Low	23230	782 MHz	Low	5230	751 MHz
		Middle	23230	782 MHz	Middle	5230	751 MHz
		High	23230	782 MHz	High	5230	751 MHz

2.2 Test Mode

Test Mode	Description
TM 1	EUT communication with simulated station in LTE/QPSK mode
TM 2	EUT communication with simulated station in LTE/16QAM mode

2.3 Support Unit used in test

The EUT has been tested as an independent unit.

2.4 Test Environment

Temperature:	Normal: 15°C ~ 35°C
Relative Humidity:	45 ~ 56 % RH Ambient
Voltage:	Nominal: 3.87Vdc

2.5 Test RF Cable

For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

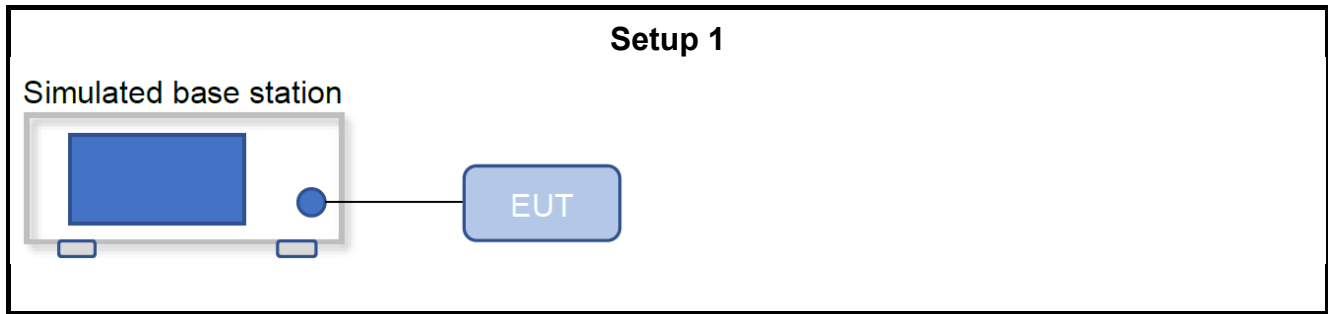
Offset = RF cable loss + attenuator factor.

2.6 Modifications

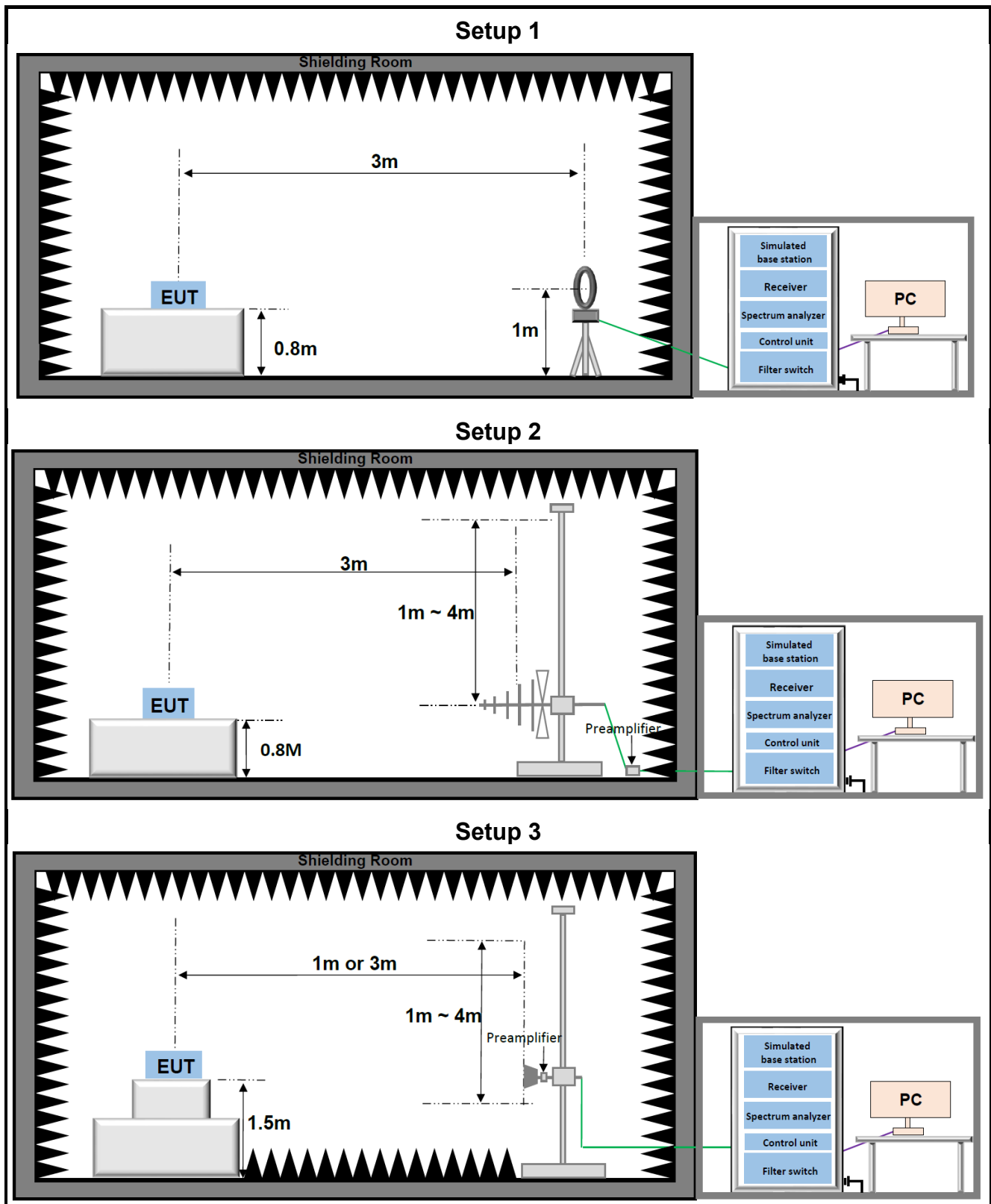
No modifications were made during testing.

2.7 Test Setup Diagram

2.7.1 Conducted Configuration



2.7.2 Radiated Configuration



3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable recognized national standards.

3.1 Test Equipment List

Radiated Emission					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Double-Ridged Horn Antennas	Tonscend	HA32-18	806HA003608251015	2025/12/13	2028/12/12
Biconic Logarithmic Periodic Antennas	Tonscend	BLA32-30	80SBLA001011251010	2025/12/13	2028/12/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	01290	2026/06/18	2029/06/17
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2026/06/13	2029/06/12
Signal Analyzer	Keysight	N9020A	MY57120015	2026/01/19	2028/01/18
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2026/05/29	2027/05/28
Wideband Radio Communication Tester	R&S	CMW500	150645	2026/03/06	2027/03/05
Low Noise Amplifier	Tonscend	TAP9K3G40	806JSAP044710251054	2026/01/19	2028/01/18
Low Noise Amplifier	Tonscend	TAP01018050	806JSAF044509251052	2026/01/19	2028/01/18
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2025/03/11	2027/03/10
Hygrometer	BINGYU	HTC-1	N/A	2026/07/24	2027/07/23
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A

3.2 Measurement Uncertainty

Parameter	U _{lab}
Radiated Emissions(9kHz~30MHz)	2.42dB
Radiated Emissions(30MHz~1000MHz)	4.62dB
Radiated Emissions(1GHz~18GHz)	5.30dB
Radiated Emissions(18GHz~40GHz)	5.52dB

Uncertainty figures are valid to a confidence level of 95%

4 Test Results

4.1 Output Power (ERP / EIRP / Conducted Power)

Limits

FCC Part	Test Band	Limit
§27.50(d)(4)	LTE Band 4	Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780MHz bands are limited to 1watt EIRP. Fixed stations operating in the 1710-1755MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.
§27.50(b)(10)	LTE Band 13	Portable stations (hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

Test Procedure

KDB 971168 D01 V03r01 Section 5.2.1, for Conducted Output Power

KDB 971168 D01 V03r01 Section 5.2, for Effective (Isotropic) Radiated Power

Test Settings

Conducted Output Power:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the simulated base station. The simulated station was set to force the EUT to its maximum power setting, Transmitter output power was read off in dBm, read values have added cable loss and attenuation.

Radiated Power:

The formula for calculating ERP/EIRP based on conduction power is as follows:

$EIRP\ (dBm) = \text{Conducted Power}\ (dBm) + \text{antenna gain}\ (dBi)$

$ERP = EIRP - 2.15dB$

Test Setup

Refer to section 2.7.1 Setup 1

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Results

The detailed test data see: **Appendix**.

Remark: The items of power data refer to the previous report, updated the ERP/EIRP and only the maximum power of all frequency bands displayed in this report.

4.2 Field Strength of Spurious Radiation

Limits

FCC part	Test Band	Limit
§2.1053 §27.53(h)	LTE Band 4	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.
§27.53(c)(f)	LTE Band 13	On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB; For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Test Procedure

KDB 971168 D01 V03r01 Section 7

Test Settings

- For radiated emissions measurements performed at frequencies less than or equal to 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the reference ground plane.
- For radiated emissions measurements performed at frequencies above 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 150cm above the ground plane.
- Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1m to 4m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e, field strength or received power), when orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25cm.
- For each suspected emission, the EUT was ranged its worst case and then tune the antenna tower(from 1~4m) and turntable(from 0~360°) find the maximum reading. Preamplifier and a high pass filter are used for the test in order get better signal level comply with the guidelines.
- The simulated base station was set to force the EUT to its maximum transmitting power.
- spectrum analyzer setting:
Measurements 9kHz ~150kHz: RBW = 300Hz; VBW ≥ 3kHz; Detector = RMS
Measurements 150kHz ~30MHz: RBW = 10kHz; VBW ≥ 30kHz; Detector = RMS
Measurements 30MHz~1000MHz: RBW = 100kHz or 1MHz; VBW ≥ 1MHz or 3MHz; Detector = RMS
Measurements Above 1000MHz: RBW = 1 MHz; VBW ≥ 3 MHz; Detector = RMS
- The field strength is calculated by adding the Antenna Factor, Cable Factor. The basic equation with a sample calculation is as follows:

$$E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$$

$$E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$$

$$E(\text{dB}\mu\text{V/m}) = \text{EIRP(dBm)} - 20\log(D) + 104.8; \text{ where } D \text{ is the measurement distance(in the far field region) in m.}$$

$$\text{EIRP(dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8; \text{ where } D \text{ is the measurement distance(in the far field region) in m.}$$

So, from d: The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$
Then, $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 9.5424 - 104.8 = E(\text{dB}\mu\text{V/m}) - 95.2576$
- Repeat above procedures until all frequencies measured was complete.
- Measure and record the results in the test report.

Test notes

1. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
3. Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. the disturbance between 9kHz to 30MHz, 30MHz-1GHz and 18GHz to 40GHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be recorded, so only the harmonics had been displayed.
4. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Test Setup

Refer to section 2.7.2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

5 Test Setup Photos

For detailed test setup photos, see **Appendix A - WWAN Setup Photos**

Appendix

Maximum Power

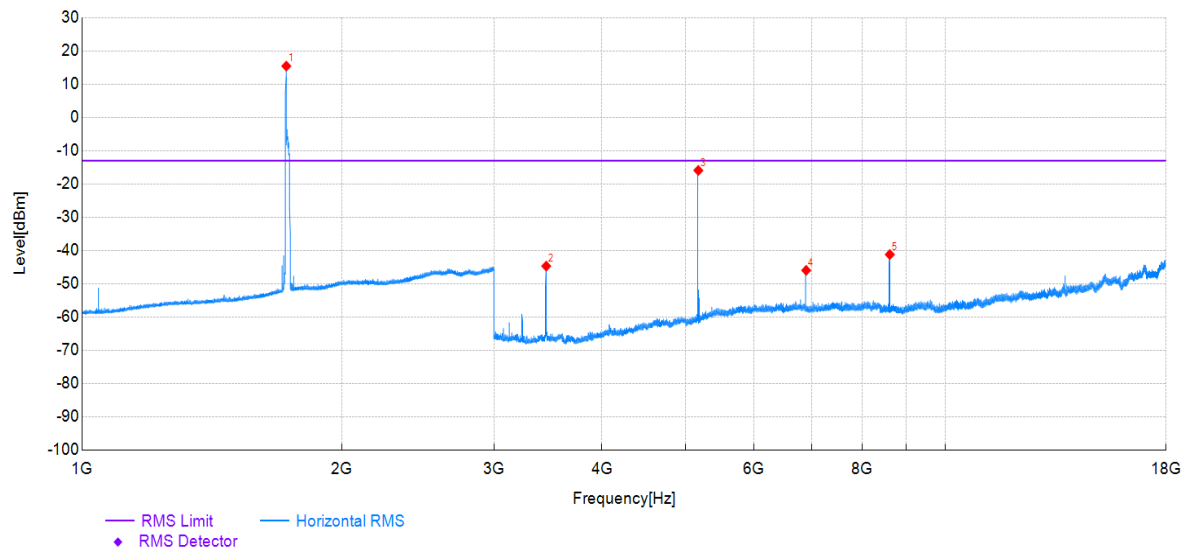
Frequency Band	Frequency Range (MHz)		Emission Designator	Conducted Power (dBm)	Conducted Power (W)	Gain (dBi)	EIRP/ERP		Limit (dBm)
	Low	High					dBm	W	
LTE Band 4	1720	1745	17M9G7D	23.33	0.2153	-4.4	18.93	0.0782	30.00
LTE Band 4	1720	1745	3M75W7D	22.22	0.1667	-4.4	17.82	0.0605	30.00
LTE Band 4	1715	1750	8M96G7D	23.54	0.2259	-4.4	19.14	0.0820	30.00
LTE Band 4	1717.5	1747.5	3M27W7D	22.61	0.1824	-4.4	18.21	0.0662	30.00
LTE Band 13	782	782	8M99G7D	24.18	0.2618	-4.9	17.13	0.0516	34.77
LTE Band 13	782	782	2M41W7D	23.50	0.2239	-4.9	16.45	0.0442	34.77

Field Strength of Spurious Radiation

Test Result

Project Information			
Mode:	LTE Band 4	Band:	4
Bandwidth	20MHz	Channel	Mid
IMEI:	-	Engineer:	Tian Shuo
Remark:			

Test Graph

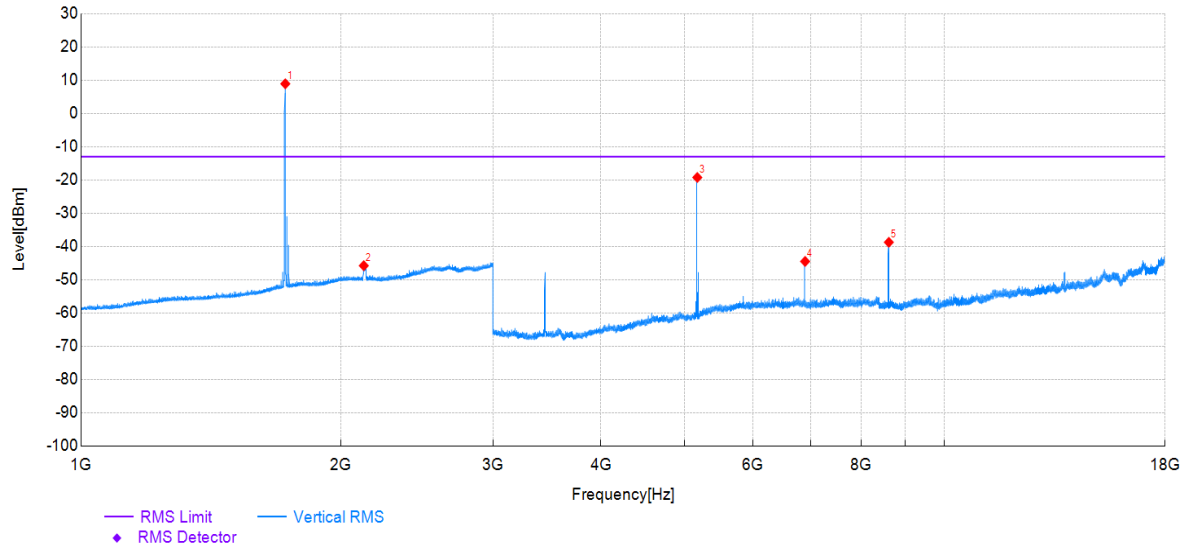


Data List									
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Trace	Polarity	Verdict
1	1723.60	110.64	-95.21	15.43	-	-	RMS	Horizontal	NA
2	3447.00	63.47	-108.17	-44.70	-13.00	31.70	RMS	Horizontal	PASS
3	5171.00	85.53	-101.47	-15.94	-13.00	2.94	RMS	Horizontal	PASS
4	6894.50	50.81	-96.79	-45.98	-13.00	32.98	RMS	Horizontal	PASS
5	8618.00	52.76	-93.98	-41.22	-13.00	28.22	RMS	Horizontal	PASS

Project Information

Mode:	LTE Band 4	Band:	4
Bandwidth	20MHz	Channel	Mid
IMEI:	-	Engineer:	Tian Shuo
Remark:			

Test Graph



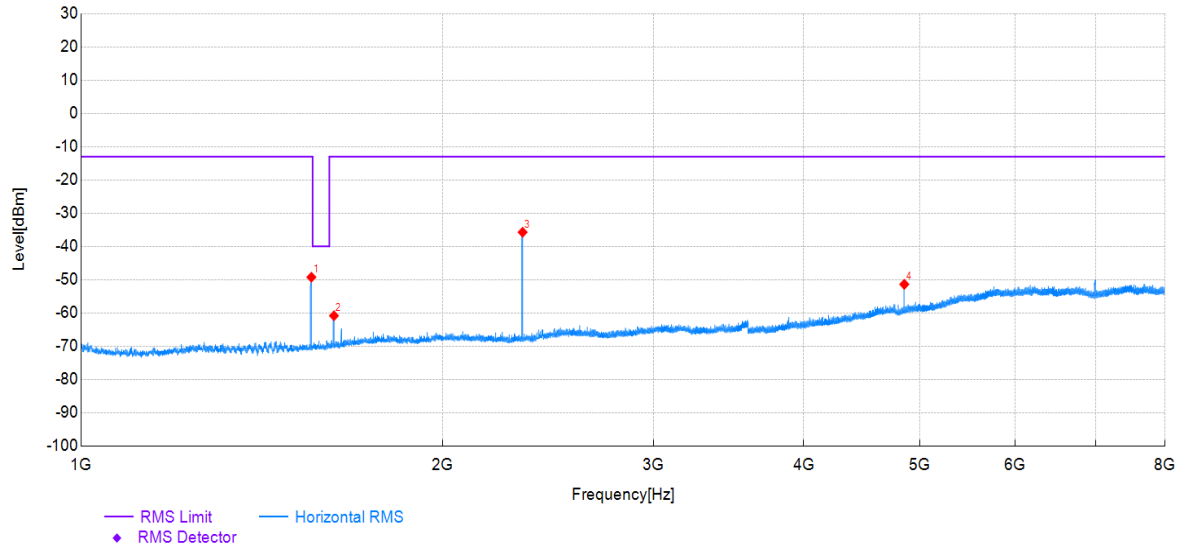
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Trace	Polarity	Verdict
1	1723.60	104.10	-95.21	8.89	-	-	RMS	Vertical	NA
2	2124.80	48.11	-93.90	-45.79	-	-	RMS	Vertical	NA
3	5171.00	82.21	-101.47	-19.26	-13.00	6.26	RMS	Vertical	PASS
4	6894.00	52.29	-96.79	-44.50	-13.00	31.50	RMS	Vertical	PASS
5	8618.00	55.23	-93.98	-38.75	-13.00	25.75	RMS	Vertical	PASS

Project Information

Mode:	LTE Band 13	Band:	13
Bandwidth	10MHz	Channel	Mid
IMEI:	-	Engineer:	Tian Shuo
Remark:			

Test Graph



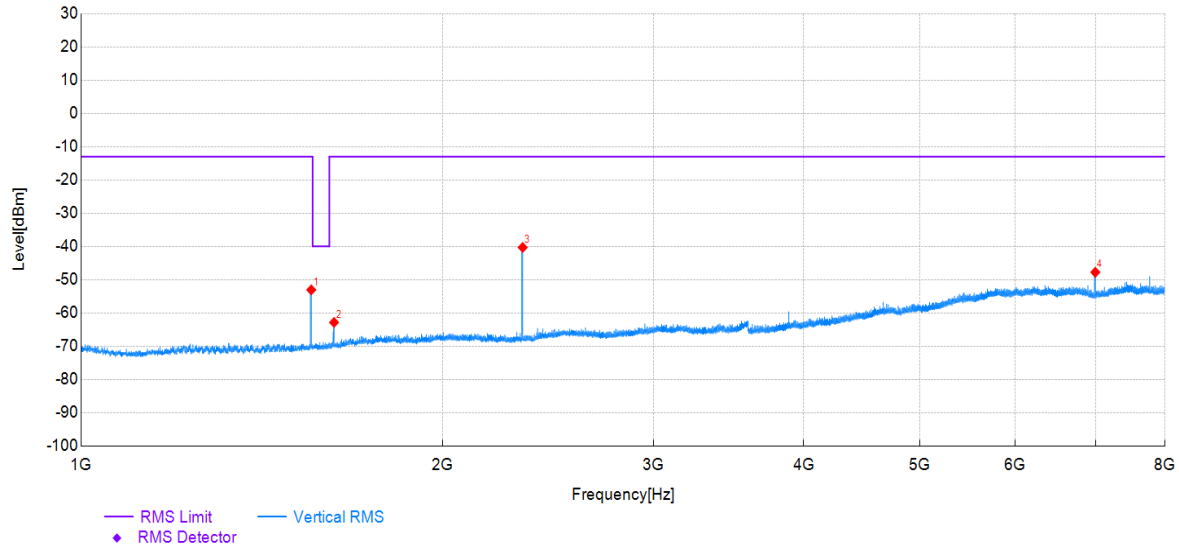
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Trace	Polarity	Verdict
1	1555.33	66.16	-115.40	-49.24	-13.00	36.24	RMS	Horizontal	PASS
2	1624.17	53.94	-114.76	-60.82	-13.00	47.82	RMS	Horizontal	PASS
3	2332.57	76.43	-112.15	-35.72	-13.00	22.72	RMS	Horizontal	PASS
4	4851.63	50.85	-102.24	-51.39	-13.00	38.39	RMS	Horizontal	PASS

Project Information

Mode:	LTE Band 13	Band:	13
Bandwidth	10MHz	Channel	Mid
IMEI:	-	Engineer:	Tian Shuo
Remark:			

Test Graph



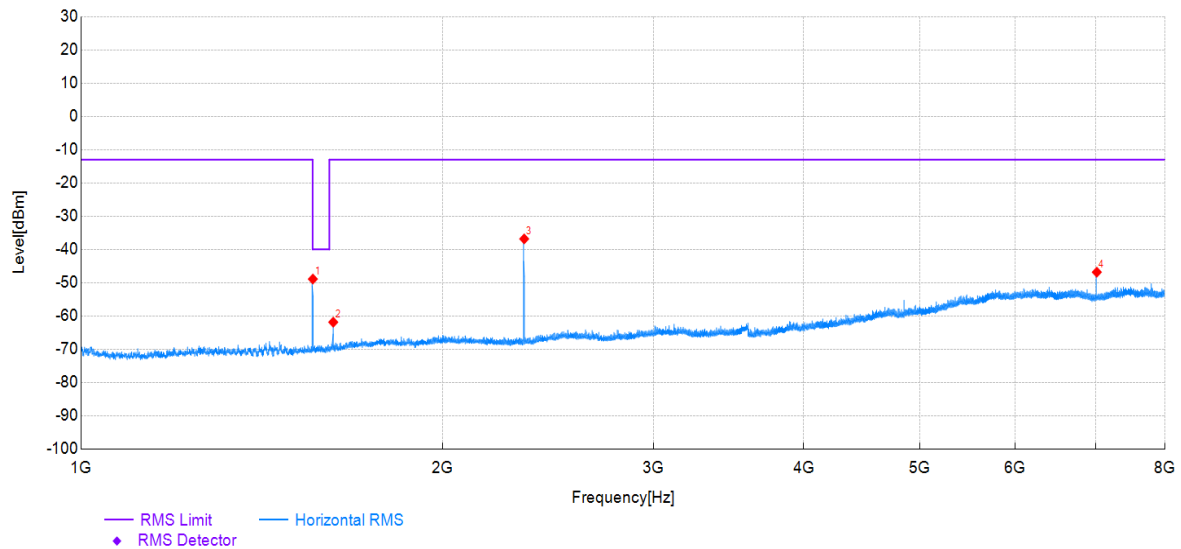
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Trace	Polarity	Verdict
1	1555.10	62.35	-115.40	-53.05	-13.00	40.05	RMS	Vertical	PASS
2	1624.40	51.92	-114.76	-62.84	-13.00	49.84	RMS	Vertical	PASS
3	2332.80	71.86	-112.15	-40.29	-13.00	27.29	RMS	Vertical	PASS
4	6998.30	49.43	-97.18	-47.75	-13.00	34.75	RMS	Vertical	PASS

Project Information

Mode:	LTE Band 13	Band:	13
Bandwidth	5MHz	Channel	Mid
IMEI:	-	Engineer:	Tian Shuo
Remark:			

Test Graph



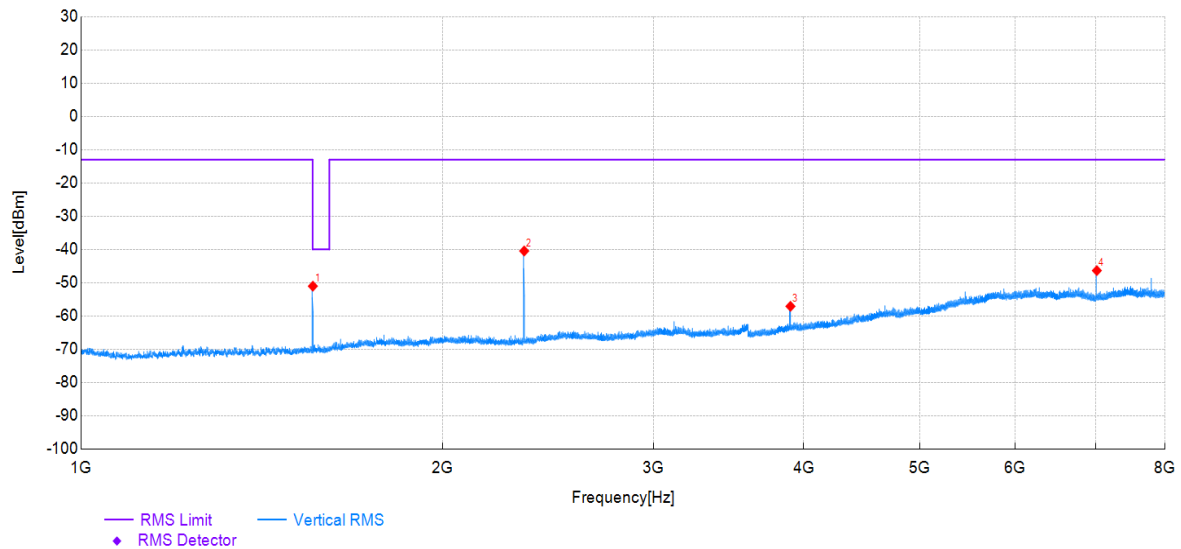
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Trace	Polarity	Verdict
1	1559.77	66.48	-115.38	-48.90	-40.00	8.90	RMS	Horizontal	PASS
2	1622.07	52.94	-114.80	-61.86	-13.00	48.86	RMS	Horizontal	PASS
3	2339.57	75.27	-112.10	-36.83	-13.00	23.83	RMS	Horizontal	PASS
4	7018.37	50.20	-97.02	-46.82	-13.00	33.82	RMS	Horizontal	PASS

Project Information

Mode:	LTE Band 13	Band:	13
Bandwidth	5MHz	Channel	Mid
IMEI:	-	Engineer:	Tian Shuo
Remark:			

Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Trace	Polarity	Verdict
1	1559.77	64.35	-115.38	-51.03	-40.00	11.03	RMS	Vertical	PASS
2	2339.57	71.65	-112.10	-40.45	-13.00	27.45	RMS	Vertical	PASS
3	3899.40	48.36	-105.45	-57.09	-13.00	44.09	RMS	Vertical	PASS
4	7018.83	50.66	-97.02	-46.36	-13.00	33.36	RMS	Vertical	PASS

~The End~