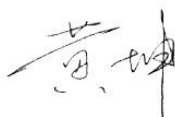


TEST REPORT

Applicant: Siren Marine, Inc.
EUT Description: Data Communication Module
Model: Siren 3
Brand: Siren Marine and Connected Boat
FCC ID: 2BMMJSIREN3
Standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 22
FCC CFR Title 47 Part 24
FCC CFR Title 47 Part 25
FCC CFR Title 47 Part 27
FCC CFR Title 47 Part 90
Date of Receipt: 2024/11/12
Date of Test: 2024/11/12 to 2024/12/12
Date of Issue: 2024/12/12

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 the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample 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.



Huang Kun
Approved By:



Chen Chengfu
Reviewed By:

Revision History

Rev.	Issue Date	Description	Revised by
01	2024/12/12	Original	Chen Chengfu

Summary of Test Results

FCC Part	Test Band	Test Item	Test Result
§2.1046 §22.913(a)(5) §27.50(c)(10)	LTE Band 5/26(824 ~ 849MHz) LTE Band 12/85	Effective Radiated Power	Pass
§27.50(b)(10)	LTE Band 13	Effective Radiated Power	Pass
§2.1046 §24.232(c) §27.50(d)(4)	LTE Band 2/25 LTE Band 4/66	Effective Isotropic Radiated Power	Pass
§2.1046 §90.635(b)	LTE Band 26(814 ~ 824MHz)	Transmitter Conducted Output Power	Pass
§22.913(d) §24.232(d) §27.50(d)(5)	LTE Band 5/26(824 ~ 849MHz) LTE Band 2/25 Others Band	Peak-Average Ratio	Pass*
§2.1049	All Band	Occupied Bandwidth	Pass*
§2.1051 §90.691(a)	LTE Band 26(814 ~ 824MHz)	Emission Mask	Pass*
§2.1051 §22.917(a) §24.238(a) §27.53(c) §27.53(g) §27.53(h)	LTE Band 5/26(824 ~ 849MHz) LTE Band 2/25 LTE Band 13 LTE Band 12/85 LTE Band 4/66	Band Edge	Pass*
§2.1051 §22.917(a) §24.238(a) §27.53(c) §27.53(g) §27.53(h) §90.691	LTE Band 5/26(824 ~ 849MHz) LTE Band 2/25 LTE Band 13 LTE Band 12/85 LTE Band 4/66 LTE Band 26(814 ~ 824MHz)	Spurious Emission at Antenna Terminals	Pass*
§2.1053 §22.917(a) §24.238(a) §27.53(c)&(f) §27.53(g) §27.53(h) §90.691	LTE Band 5/26(824 ~ 849MHz) LTE Band 2/25 LTE Band 13 LTE Band 12/85 LTE Band 4/66 LTE Band 26(814 ~ 824MHz)	Field Strength of Spurious Radiation	Pass
§2.1055 §22.355 §24.235 §27.54 §90.213	LTE Band 5/26(824 ~ 849MHz) LTE Band 2/25 Others Band LTE Band 26(814 ~ 824MHz)	Frequency Stability	Pass*
Remark: 1. Pass: Meet the requirement. 2. Pass*: Refer to Module FCC ID: XMR202406BG95S5, Detailed data reference Report No.: SZCR240600220102, provided by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch			

FCC Part	Test Band	Test Item	Test Result
§2.1046 §25.204	NTN Band 23/255	Effective Isotropic Radiated Power	Pass
§2.1049(h)	NTN Band 23/255	Occupied Bandwidth	Pass*
§2.1051 §25.202 (f)(1)(2)	NTN Band 23/255	Emission Mask	Pass*
§2.1051 §25.202 (f)(3)	NTN Band 23/255	Conducted Spurious emissions	Pass*
§2.1053 §25.202 (f)(3)	NTN Band 23/255	Field Strength of Spurious Radiation	Pass
§2.1055 §25.202 (d)	NTN Band 23/255	Frequency Stability	Pass*
§25.216(c)(e)(h)(i)	NTN Band 23/255	Additional unwanted emission limits for MESS	Pass*

Remark:

1. Pass: Meet the requirement.
2. Pass*: Refer to Module FCC ID: XMR202406BG95S5, Detailed data reference Report No.: FYCR240700001901, provided by Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, 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. 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:	Siren Marine, Inc.
Address:	221 3rd St, Suite 300, Newport, RI 02840, United States

1.2.2 Manufacturer

Manufacturer:	Siren Marine, Inc.
Address:	221 3rd St, Suite 300, Newport, RI 02840, United States

1.3 Product Information

EUT Description:	Data Communication Module			
Model:	Siren 3			
Brand:	Siren Marine and Connected Boat			
Hardware Version:	V1.0			
Software Version:	S3_App-0.1.19			
Power Class:	Class 3: All			
IMEI:	RF Conducted	862063070013656		
	RSE	862063070013656		
Device Capabilities:				
Modulation Type:	LTE Cat M1:	☒ QPSK, ☒ 16QAM, ☐ 64QAM, ☐ 256QAM		
	NTN:	☒ BPSK, ☒ QPSK		
Operation Frequency Range:	Band	TX Frequency	RX Frequency	
	Cat M1 Band 2	1850 ~ 1910 MHz	1930 ~ 1990 MHz	
	Cat M1 Band 4	1710 ~ 1755 MHz	2110 ~ 2155 MHz	
	Cat M1 Band 5	824 ~ 849 MHz	869 ~ 894 MHz	
	Cat M1 Band 12	699 ~ 716 MHz	729 ~ 746 MHz	
	Cat M1 Band 13	777 ~ 787 MHz	746 ~ 756 MHz	
	Cat M1 Band 25	1850 ~ 1915 MHz	1930 ~ 1995 MHz	
	Cat M1 Band 26 (814 ~ 824 MHz)	814 ~ 824 MHz	859 ~ 869 MHz	
	Cat M1 Band 26 (824 ~ 849 MHz)	824 ~ 849 MHz	869 ~ 894 MHz	
	Cat M1 Band 66	1710 ~ 1780 MHz	2110 ~ 2200 MHz	
	Cat M1 Band 85	698 ~ 716 MHz	728 ~ 746 MHz	
	NTN Band 23	2000 ~ 2020 MHz	2180 ~ 2200 MHz	
	NTN Band 255	1626.5 ~ 1660.5 MHz	1525 ~ 1559 MHz	
Antenna Type:	☐ External, ☒ Integrated			
Antenna Gain:	Band	ANT Gain(dBi)	Band	ANT Gain(dBi)
	Cat M1 Band 2:	1.58	Cat M1 Band 4:	1.29
	Cat M1 Band 5:	1.36	Cat M1 Band 12:	-3.24
	Cat M1 Band 13:	0.96	Cat M1 Band 25:	1.58
	Cat M1 Band 26: (814 ~ 824 MHz)	1.54	Cat M1 Band 26: (824 ~ 849 MHz)	1.36
	Cat M1 Band 66:	1.29	Cat M1 Band 85:	-3.24
	NTN Band 23:	2.54	NTN Band 255:	2.38
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 Cat M1 Band 2	1.4MHz	Low	18607	1850.7 MHz	Low	607	1930.7 MHz
		Middle	18900	1880 MHz	Middle	900	1960 MHz
		High	19193	1909.3 MHz	High	1193	1989.3 MHz
	3MHz	Low	18615	1851.5 MHz	Low	615	1931.5 MHz
		Middle	18900	1880 MHz	Middle	900	1960 MHz
		High	19185	1908.5 MHz	High	1185	1988.5 MHz
	5MHz	Low	18625	1852.5 MHz	Low	625	1932.5 MHz
		Middle	18900	1880 MHz	Middle	900	1960 MHz
		High	19175	1907.5 MHz	High	1175	1987.5 MHz
	10MHz	Low	18650	1855 MHz	Low	650	1935 MHz
		Middle	18900	1880 MHz	Middle	900	1960 MHz
		High	19150	1905 MHz	High	1150	1985 MHz
	15MHz	Low	18675	1857.5 MHz	Low	675	1937.5 MHz
		Middle	18900	1880 MHz	Middle	900	1960 MHz
		High	19125	1902.5 MHz	High	1125	1982.5 MHz
	20MHz	Low	18700	1860 MHz	Low	700	1940 MHz
		Middle	18900	1880 MHz	Middle	900	1960 MHz
		High	19100	1900 MHz	High	1100	1980 MHz
LTE Cat M1 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
	20MHz	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
LTE Cat M1	1.4MHz	Low	20407	824.7 MHz	Low	2407	869.7 MHz

Band	Bandwidth	TX Frequency			RX Frequency		
		Range	Channel	Frequency	Range	Channel	Frequency
Band 5		Middle	20525	836.5 MHz	Middle	2525	881.5 MHz
		High	20643	848.3 MHz	High	2643	893.3 MHz
	3MHz	Low	20415	825.5 MHz	Low	2415	870.5 MHz
		Middle	20525	836.5 MHz	Middle	2525	881.5 MHz
		High	20635	847.5 MHz	High	2635	892.5 MHz
	5MHz	Low	20425	826.5 MHz	Low	2425	871.5 MHz
		Middle	20525	836.5 MHz	Middle	2525	881.5 MHz
		High	20625	846.5 MHz	High	2625	891.5 MHz
	10MHz	Low	20450	829 MHz	Low	2450	874 MHz
		Middle	20525	836.5 MHz	Middle	2525	881.5 MHz
		High	20600	844 MHz	High	2600	889 MHz
LTE Cat M1 Band 12	1.4MHz	Low	23017	699.7 MHz	Low	5017	729.7 MHz
		Middle	23095	707.5 MHz	Middle	5095	737.5 MHz
		High	23173	715.3 MHz	High	5173	745.3 MHz
	3MHz	Low	23025	700.5 MHz	Low	5025	730.5 MHz
		Middle	23095	707.5 MHz	Middle	5095	737.5 MHz
		High	23165	714.5 MHz	High	5165	744.5 MHz
	5MHz	Low	23035	701.5 MHz	Low	5035	731.5 MHz
		Middle	23095	707.5 MHz	Middle	5095	737.5 MHz
		High	23155	713.5 MHz	High	5155	743.5 MHz
	10MHz	Low	23060	704 MHz	Low	5060	734 MHz
		Middle	23095	707.5 MHz	Middle	5095	737.5 MHz
		High	23130	711 MHz	High	5130	741 MHz
LTE Cat M1 Band 13	5MHz	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
LTE Cat M1 Band 25	1.4MHz	Low	26047	1850.7 MHz	Low	8047	1930.7 MHz
		Middle	26365	1882.5 MHz	Middle	8365	1962.5 MHz
		High	26683	1914.3 MHz	High	8683	1994.3 MHz
	3MHz	Low	26055	1851.5 MHz	Low	8055	1931.5 MHz
		Middle	26365	1882.5 MHz	Middle	8365	1962.5 MHz
		High	26675	1913.5 MHz	High	8675	1993.5 MHz
	5MHz	Low	26065	1852.5 MHz	Low	8065	1932.5 MHz
		Middle	26365	1882.5 MHz	Middle	8365	1962.5 MHz
		High	26665	1912.5 MHz	High	8665	1992.5 MHz
	10MHz	Low	26090	1855 MHz	Low	8090	1935 MHz
		Middle	26365	1882.5 MHz	Middle	8365	1962.5 MHz

Band	Bandwidth	TX Frequency			RX Frequency		
		Range	Channel	Frequency	Range	Channel	Frequency
	15MHz	High	26640	1910 MHz	High	8640	1990 MHz
		Low	26115	1857.5 MHz	Low	8115	1937.5 MHz
		Middle	26365	1882.5 MH	Middle	8365	1962.5 MHz
		High	26615	1907.5 MHz	High	8615	1987.5 MHz
	20MHz	Low	26140	1860 MHz	Low	8140	1940 MHz
		Middle	26365	1882.5 MHz	Middle	8365	1962.5 MHz
		High	26590	1905 MHz	High	8590	1985 MHz
LTE Cat M1 Band 26 (814-824)	1.4MHz	Low	26697	814.7 MHz	Low	8697	859.7 MHz
		Middle	26740	819 MHz	Middle	8740	864MHz
		High	26783	823.3 MHz	High	8783	868.3 MHz
	3MHz	Low	26705	815.5 MHz	Low	8705	860.5 MHz
		Middle	26740	819 MHz	Middle	8740	864MHz
		High	26775	822.5 MHz	High	8775	867.5 MHz
	5MHz	Low	26715	816.5 MHz	Low	8715	861.5 MHz
		Middle	26740	819 MHz	Middle	8740	864MHz
		High	26765	821.5 MHz	High	8765	866.5 MHz
	10MHz	Low	26740	819 MHz	Low	8740	864MHz
		Middle	26740	819 MHz	Middle	8740	864MHz
		High	26740	819 MHz	High	8740	864MHz
LTE Cat M1 Band 26 (824-849)	1.4MHz	Low	26797	824.7 MHz	Low	8797	869.7 MHz
		Middle	26915	836.5 MHz	Middle	8915	881.5 MHz
		High	27033	848.3 MHz	High	9033	893.3 MHz
	3MHz	Low	26805	825.5 MHz	Low	8805	870.5 MHz
		Middle	26915	836.5 MHz	Middle	8915	881.5 MHz
		High	27025	847.5 MHz	High	9025	892.5 MHz
	5MHz	Low	26815	826.5 MHz	Low	8815	871.5 MHz
		Middle	26915	836.5 MHz	Middle	8915	881.5 MHz
		High	27015	846.5 MHz	High	9015	891.5 MHz
	10MHz	Low	26840	829 MHz	Low	8840	844 MHz
		Middle	26915	836.5 MHz	Middle	8915	881.5 MHz
		High	26990	844 MHz	High	8990	889 MHz
	15MHz	Low	26865	831.5 MHz	Low	8865	876.5 MHz
		Middle	26915	836.5 MHz	Middle	8915	881.5 MHz
		High	26965	841.5 MHz	High	8965	886.5 MHz
LTE Cat M1 Band 66	1.4MHz	Low	131979	1710.7 MHz	Low	66443	2110.7 MHz
		Middle	132322	1745 MHz	Middle	66786	2145MHz
		High	132665	1779.3 MHz	High	67329	2199.3 MHz
	3MHz	Low	131987	1711.5 MHz	Low	66451	2111.5 MHz
		Middle	132322	1745 MHz	Middle	66786	2145MHz
		High	132657	1778.5MHz	High	67321	2198.5MHz

Band	Bandwidth	TX Frequency			RX Frequency		
		Range	Channel	Frequency	Range	Channel	Frequency
	5MHz	Low	131997	1712.5 MHz	Low	66461	2112.5 MHz
		Middle	132322	1745 MHz	Middle	66786	2145MHz
		High	132647	1777.5 MHz	High	67311	2197.5 MHz
	10MHz	Low	132022	1715 MHz	Low	66486	2115 MHz
		Middle	132322	1745 MHz	Middle	66786	2145MHz
		High	132622	1775 MHz	High	67286	2195 MHz
	15MHz	Low	132047	1717.5 MHz	Low	66511	2117.5 MHz
		Middle	132322	1745 MHz	Middle	66786	2145MHz
		High	132597	1772.5 MHz	High	67261	2192.5 MHz
	20MHz	Low	132072	1720 MHz	Low	66536	2120 MHz
		Middle	132322	1745 MHz	Middle	66786	2145MHz
		High	132572	1770 MHz	High	67236	2190 MHz
LTE Cat M1 Band 85	5MHz	Low	23025	700.5 MHz	Low	5025	730.5 MHz
		Middle	23090	707 MHz	Middle	5090	737 MHz
		High	23155	713.5 MHz	High	5155	743.5 MHz
	10MHz	Low	23050	703 MHz	Low	5050	733 MHz
		Middle	23090	707 MHz	Middle	5090	737 MHz
		High	23130	711 MHz	High	5130	741 MHz

Test Mode	SCS (kHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
NTN Band 23	3.75	2000.1 MHz	2010 MHz	2019.9 MHz
	15			
NTN Band 255	3.75	1626.6 MHz	1643.5 MHz	1660.4 MHz
	15			

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
TM 3	EUT communication with simulated station in NTN/BPSK mode
TM 4	EUT communication with simulated station in NTN/QPSK mode

2.3 Support Unit used in test

Description	Manufacturer	Model	Serial Number
DC POWER	WANPTEK	WPS305H	/

2.4 Test Environment

Temperature:	Normal: 15°C ~ 35°C
Relative Humidity	45 ~ 56 % RH Ambient
Voltage:	DC 12V

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.

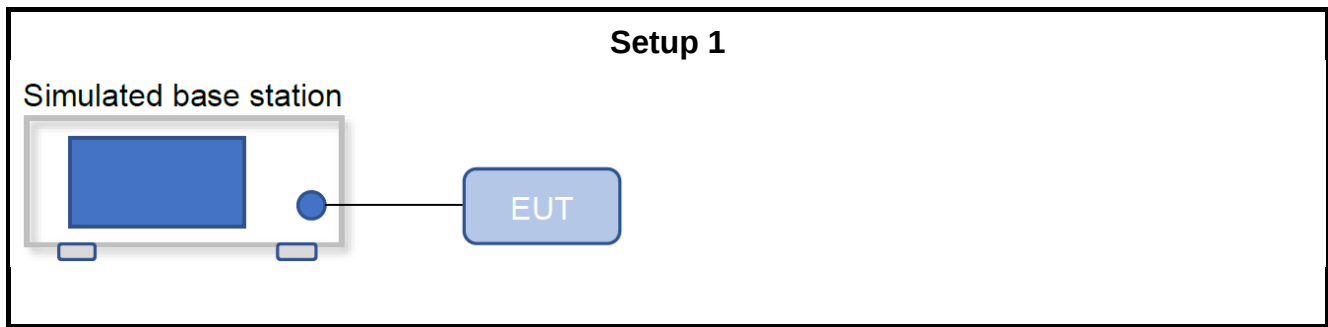
Offset = RF cable loss + attenuator factor.

2.6 Modifications

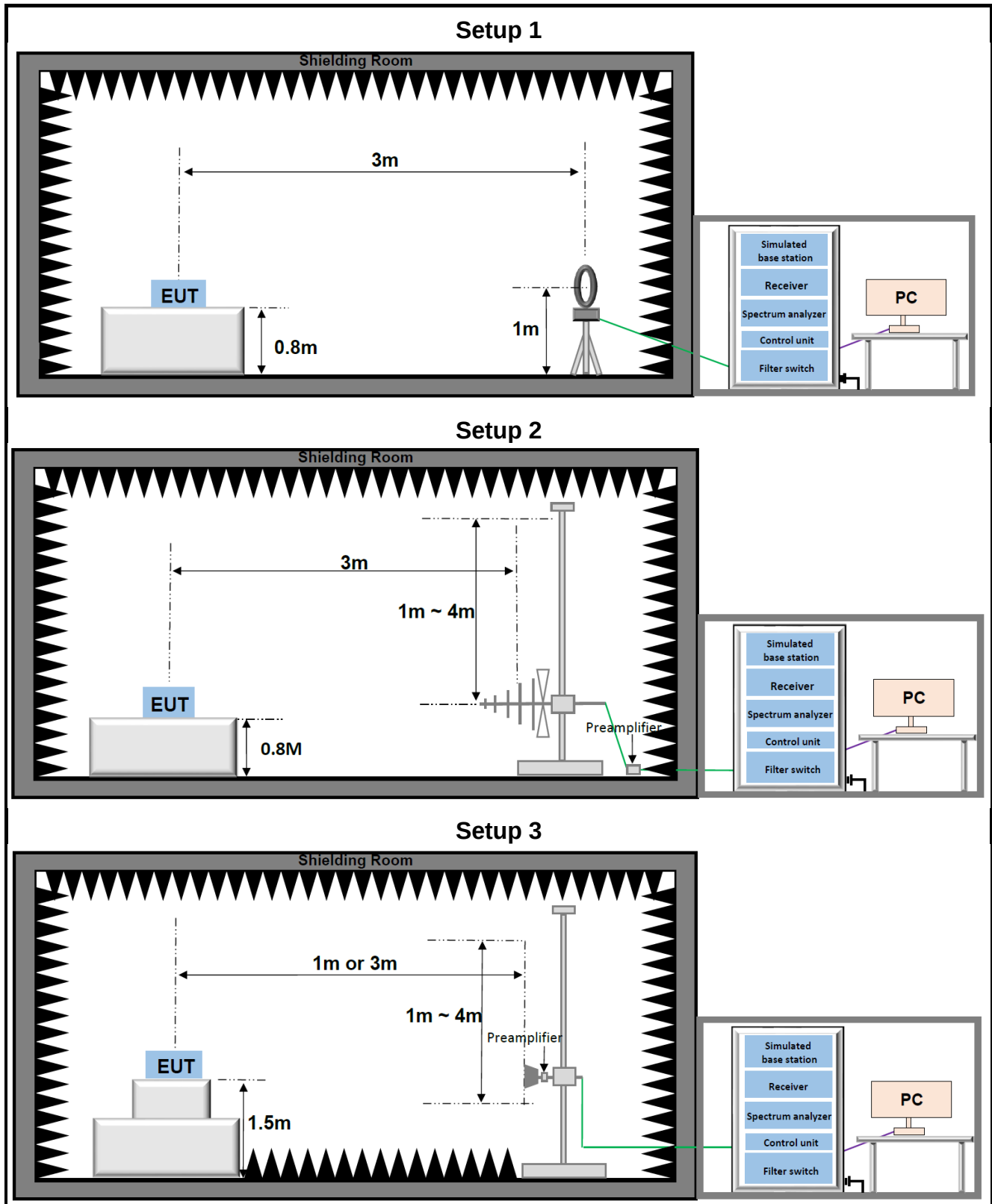
No modifications were made during testing.

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

RF04					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Radio Communication Analyzer	Anritsu	MT8821C	6262170436	2024/03/25	2025/03/24
Signal Analyzer	Keysight	N9020A	US46220152	2024/03/25	2025/03/24
Signal Generator	Keysight	N5182A	MY49060761	2024/03/25	2025/03/24
Signal Generator	R&S	SMR20	101691	2024/03/25	2025/03/24
Hygrometer	BingYu	HTC-1	N/A	2023/06/01	2025/05/31
Band Reject Filter Group	Tonscend	JS0806-F	23B806F0662	N/A	N/A
RF Control Unit	Tonscend	JS0806-1	22L8060650	N/A	N/A
Measurement Software	Tonscend	TS1120 V3.1.46	10636	N/A	N/A

Radiated Emission					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1643	2023/06/25	2025/06/24
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2809	2023/06/25	2025/06/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2023/06/25	2025/06/24
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2023/06/29	2025/06/28
Signal Analyzer	Keysight	N9020A	MY49100252	2024/03/25	2025/03/24
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2024/05/30	2025/05/29
Wideband Radio Communication Tester	R&S	CMW500	150645	2024/03/25	2025/03/24
Wideband Radio Communication Tester	R&S	CMW500	171955	2024/05/31	2025/05/30
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2023/04/08	2025/04/07
Low Noise Amplifier	Tonscend	TAP01018050	AP22G806258	2023/04/08	2025/04/07
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2023/04/08	2025/04/07
Hygrometer	BINGYU	HTC-1	N/A	2023/06/01	2025/05/31
Band Reject Filter Group	Townshend	JS0806-F	23A806F0652	N/A	N/A
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A

3.2 Measurement Uncertainty

Parameter	U _{lab}
Output Power	0.76dB
Radiated Emissions(9kHz~30MHz)	2.40dB
Radiated Emissions(30MHz~1000MHz)	4.66dB
Radiated Emissions(1GHz~18GHz)	5.42dB
Radiated Emissions(18GHz~40GHz)	5.46dB

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
§22.913(a)(5)	LTE Band 5/26(824 ~ 849MHz)	The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7watts.
§24.232(c)	LTE Band 2/25	Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.
§27.50(d)(4)	LTE Band 4/66	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(c)(10)	LTE Band 12/85	Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3watts ERP.
§27.50(b)(10)	LTE Band 13	Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788MHz, and 805-806 MHz bands are limited to 3 watts ERP.
§90.635(b)	LTE Band 26(814~824MHz)	The maximum output power of the transmitter for mobile stations is 100 watts (20dBw).
§2.1046 §25.204	NTN Band 23/255	ERP≤ 40dBW

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**.

4.2 Field Strength of Spurious Radiation

Limits

FCC part	Test Band	Limit
§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	LTE Band 5/26(824 ~ 849MHz) LTE Band 2/25 LTE Band 12/85 LTE Band 4/66	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.
§90.691	LTE Band 26(814~824MHz)	The power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ decibels or 80 decibels, whichever is the lesser attenuation.
§2.1053 §25.202 (f)(3)	NTN Band 23/255	In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts

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

7. The field strength is calculated by adding the Antenna Factor, Cable Factor. The basic equation with a sample calculation is as follows:

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

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

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

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

So, from d: The measuring distance is usually at 3m, then $20\log(3)=9.5424$*

Then, $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 9.5424 - 104.8 = E(\text{dB}\mu\text{V/m}) - 95.2576$

8. Repeat above procedures until all frequencies measured was complete.
9. 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

The detailed test data see: **Appendix A- Test Setup Photos**

Appendix

Effective (Isotropic) Radiated Power Output Data

Test Result for NTN Band 23

Band 23 SCS 15kHz					
Modulation	Frequency(MHz)	Ntones	Conducted Power(dBm)	Antenna Gain(dBi)	EIRP (dBm)
QPSK	2000.1	12@0	23.22	2.54	25.76
QPSK		1@1	23.35	2.54	25.89
QPSK		1@10	23.16	2.54	25.7
BPSK		1@1	23.09	2.54	25.63
BPSK		1@10	23.15	2.54	25.69
QPSK	2010	12@0	22.93	2.54	25.47
QPSK		1@1	23.81	2.54	26.35
QPSK		1@10	23.14	2.54	25.68
BPSK		1@1	23.32	2.54	25.86
BPSK		1@10	23.26	2.54	25.8
QPSK	2019.9	12@0	23.25	2.54	25.79
QPSK		1@1	23.58	2.54	26.12
QPSK		1@10	23.1	2.54	25.64
BPSK		1@1	23.49	2.54	26.03
BPSK		1@10	23.02	2.54	25.56

Band 23 SCS 3.75kHz					
Modulation	Frequency(MHz)	Ntones	Conducted Power(dBm)	Antenna Gain(dBi)	EIRP (dBm)
QPSK	2000.1	1@1	23.24	2.54	25.78
QPSK		1@46	23.19	2.54	25.73
BPSK		1@1	23.14	2.54	25.68
BPSK		1@46	23.08	2.54	25.62
QPSK	2010	1@1	23.35	2.54	25.89
QPSK		1@46	23.14	2.54	25.68
BPSK		1@1	23.18	2.54	25.72
BPSK		1@46	23.12	2.54	25.66
QPSK	2019.9	1@1	23.26	2.54	25.8
QPSK		1@46	23.19	2.54	25.73
BPSK		1@1	23.24	2.54	25.78
BPSK		1@46	23.13	2.54	25.67

Test Result for NTN Band 255

Band 255 SCS 15kHz					
Modulation	Frequency(MHz)	Ntones	Conducted Power(dBm)	Antenna Gain(dBi)	EIRP (dBm)
QPSK	1626.6	12@0	23.56	2.38	25.94
QPSK		1@1	23.83	2.38	26.21
QPSK		1@10	23.57	2.38	25.95
BPSK		1@1	23.69	2.38	26.07
BPSK		1@10	23.52	2.38	25.9
QPSK	1643.5	12@0	23.48	2.38	25.86
QPSK		1@1	23.83	2.38	26.21
QPSK		1@10	23.56	2.38	25.94
BPSK		1@1	23.75	2.38	26.13
BPSK		1@10	23.53	2.38	25.91
QPSK	1660.4	12@0	23.44	2.38	25.82
QPSK		1@1	23.85	2.38	26.23
QPSK		1@10	23.69	2.38	26.07
BPSK		1@1	23.67	2.38	26.05
BPSK		1@10	23.54	2.38	25.92

Band 255 SCS 3.75kHz					
Modulation	Frequency(MHz)	Ntones	Conducted Power(dBm)	Antenna Gain(dBi)	EIRP (dBm)
QPSK	1626.6	1@1	23.34	2.38	25.72
QPSK		1@46	23.22	2.38	25.6
BPSK		1@1	23.12	2.38	25.5
BPSK		1@46	23.09	2.38	25.47
QPSK	1643.5	1@1	23.31	2.38	25.69
QPSK		1@46	23.33	2.38	25.71
BPSK		1@1	23.16	2.38	25.54
BPSK		1@46	23.12	2.38	25.5
QPSK	1660.4	1@1	23.35	2.38	25.73
QPSK		1@46	23.24	2.38	25.62
BPSK		1@1	23.27	2.38	25.65
BPSK		1@46	23.13	2.38	25.51

Test Result for Cat M1 Band 2

LTE FDD Band 2, Nominal Bandwidth: 1.4MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.71	1.58	23.29	23.29
		1	0	24.23	1.58	25.81	25.81
	MCH	6	0	21.7	1.58	23.28	23.28
		1	0	23.99	1.58	25.57	25.57
	HCH	6	0	22.02	1.58	23.6	23.6
		1	0	24.21	1.58	25.79	25.79
16QAM	LCH	5	0	21.69	1.58	23.27	23.27
		1	0	22.86	1.58	24.44	24.44
	MCH	5	0	21.7	1.58	23.28	23.28
		1	0	22.93	1.58	24.51	24.51
	HCH	5	0	21.98	1.58	23.56	23.56
		1	0	23.12	1.58	24.7	24.7

Remark: EIRP limit for FCC/IC band 2 is 33dBm, so test result is pass.

LTE FDD Band 2, Nominal Bandwidth: 3MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.72	1.58	23.3	23.3
		1	0	24.05	1.58	25.63	25.63
	MCH	6	0	21.72	1.58	23.3	23.3
		1	0	24.04	1.58	25.62	25.62
	HCH	6	0	22.08	1.58	23.66	23.66
		1	0	24.21	1.58	25.79	25.79
16QAM	LCH	5	0	21.62	1.58	23.2	23.2
		1	0	22.77	1.58	24.35	24.35
	MCH	5	0	21.4	1.58	22.98	22.98
		1	0	22.92	1.58	24.5	24.5
	HCH	5	0	21.96	1.58	23.54	23.54
		1	0	23.03	1.58	24.61	24.61

Remark: EIRP limit for FCC/IC band 2 is 33dBm, so test result is pass.

LTE FDD Band 2, Nominal Bandwidth: 5MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.74	1.58	24.32	24.32
		1	0	24.05	1.58	25.63	25.63
	MCH	6	0	22.89	1.58	24.47	24.47
		1	0	24.16	1.58	25.74	25.74
	HCH	6	0	23.12	1.58	24.7	24.7
		1	0	24.19	1.58	25.77	25.77
16QAM	LCH	5	0	21.9	1.58	23.48	23.48
		1	0	24	1.58	25.58	25.58
	MCH	5	0	22.09	1.58	23.67	23.67
		1	0	24.35	1.58	25.93	25.93
	HCH	5	0	22.28	1.58	23.86	23.86
		1	0	24.13	1.58	25.71	25.71

Remark: EIRP limit for FCC/IC band 2 is 33dBm, so test result is pass.

LTE FDD Band 2, Nominal Bandwidth: 10MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.81	1.58	24.39	24.39
		1	0	24.04	1.58	25.62	25.62
	MCH	6	0	22.75	1.58	24.33	24.33
		1	0	24.17	1.58	25.75	25.75
	HCH	6	0	23.13	1.58	24.71	24.71
		1	0	24.24	1.58	25.82	25.82
16QAM	LCH	5	0	22.99	1.58	24.57	24.57
		1	0	23.97	1.58	25.55	25.55
	MCH	5	0	22.97	1.58	24.55	24.55
		1	0	24.2	1.58	25.78	25.78
	HCH	5	0	23.37	1.58	24.95	24.95
		1	0	24.13	1.58	25.71	25.71

Remark: EIRP limit for FCC/IC band 2 is 33dBm, so test result is pass.

LTE FDD Band 2, Nominal Bandwidth: 15MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	24.02	1.58	25.6	25.6
		1	0	24.03	1.58	25.61	25.61
	MCH	6	0	23.94	1.58	25.52	25.52
		1	0	24.19	1.58	25.77	25.77
	HCH	6	0	24.33	1.58	25.91	25.91
		1	0	24.15	1.58	25.73	25.73
16QAM	LCH	5	0	23.98	1.58	25.56	25.56
		1	0	24.02	1.58	25.6	25.6
	MCH	5	0	24.1	1.58	25.68	25.68
		1	0	24.22	1.58	25.8	25.8
	HCH	5	0	24.45	1.58	26.03	26.03
		1	0	24.07	1.58	25.65	25.65

Remark: EIRP limit for FCC/IC band 2 is 33dBm, so test result is pass.

LTE FDD Band 2, Nominal Bandwidth: 20MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	23.99	1.58	25.57	25.57
		1	0	24.09	1.58	25.67	25.67
	MCH	6	0	23.93	1.58	25.51	25.51
		1	0	24.1	1.58	25.68	25.68
	HCH	6	0	24.29	1.58	25.87	25.87
		1	0	24.16	1.58	25.74	25.74
16QAM	LCH	5	0	24.05	1.58	25.63	25.63
		1	0	23.99	1.58	25.57	25.57
	MCH	5	0	24.19	1.58	25.77	25.77
		1	0	23.98	1.58	25.56	25.56
	HCH	5	0	24.39	1.58	25.97	25.97
		1	0	24.11	1.58	25.69	25.69

Remark: EIRP limit for FCC/IC band 2 is 33dBm, so test result is pass.

Test Result for Cat M1 Band 4

LTE FDD Band 4, Nominal Bandwidth: 1.4MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.97	1.29	23.26	23.26
		1	0	23.94	1.29	25.23	25.23
	MCH	6	0	21.86	1.29	23.15	23.15
		1	0	23.82	1.29	25.11	25.11
	HCH	6	0	21.87	1.29	23.16	23.16
		1	0	23.93	1.29	25.22	25.22
16QAM	LCH	5	0	21.88	1.29	23.17	23.17
		1	0	22.67	1.29	23.96	23.96
	MCH	5	0	21.96	1.29	23.25	23.25
		1	0	22.82	1.29	24.11	24.11
	HCH	5	0	21.78	1.29	23.07	23.07
		1	0	22.52	1.29	23.81	23.81

Remark: EIRP limit for FCC/IC band 4 is 30dBm, so test result is pass.

LTE FDD Band 4, Nominal Bandwidth: 3MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.87	1.29	23.16	23.16
		1	0	24.17	1.29	25.46	25.46
	MCH	6	0	21.87	1.29	23.16	23.16
		1	0	24.04	1.29	25.33	25.33
	HCH	6	0	21.87	1.29	23.16	23.16
		1	0	23.93	1.29	25.22	25.22
16QAM	LCH	5	0	21.81	1.29	23.1	23.1
		1	0	22.83	1.29	24.12	24.12
	MCH	5	0	21.82	1.29	23.11	23.11
		1	0	22.88	1.29	24.17	24.17
	HCH	5	0	21.78	1.29	23.07	23.07
		1	0	22.57	1.29	23.86	23.86

Remark: EIRP limit for FCC/IC band 4 is 30dBm, so test result is pass.

LTE FDD Band 4, Nominal Bandwidth: 5MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.87	1.29	24.16	24.16
		1	0	24.24	1.29	25.53	25.53
	MCH	6	0	22.95	1.29	24.24	24.24
		1	0	24.31	1.29	25.6	25.6
	HCH	6	0	22.9	1.29	24.19	24.19
		1	0	23.91	1.29	25.2	25.2
16QAM	LCH	5	0	22.1	1.29	23.39	23.39
		1	0	23.91	1.29	25.2	25.2
	MCH	5	0	21.91	1.29	23.2	23.2
		1	0	24.25	1.29	25.54	25.54
	HCH	5	0	22.06	1.29	23.35	23.35
		1	0	23.58	1.29	24.87	24.87

Remark: EIRP limit for FCC/IC band 4 is 30dBm, so test result is pass.

LTE FDD Band 4, Nominal Bandwidth: 10MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.94	1.29	24.23	24.23
		1	0	24.22	1.29	25.51	25.51
	MCH	6	0	22.94	1.29	24.23	24.23
		1	0	24.31	1.29	25.6	25.6
	HCH	6	0	22.88	1.29	24.17	24.17
		1	0	23.96	1.29	25.25	25.25
16QAM	LCH	5	0	23.11	1.29	24.4	24.4
		1	0	23.87	1.29	25.16	25.16
	MCH	5	0	22.93	1.29	24.22	24.22
		1	0	24.26	1.29	25.55	25.55
	HCH	5	0	23.08	1.29	24.37	24.37
		1	0	23.69	1.29	24.98	24.98

Remark: EIRP limit for FCC/IC band 4 is 30dBm, so test result is pass.

LTE FDD Band 4, Nominal Bandwidth: 15MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	23.9	1.29	25.19	25.19
		1	0	24.17	1.29	25.46	25.46
	MCH	6	0	24.01	1.29	25.3	25.3
		1	0	24.24	1.29	25.53	25.53
	HCH	6	0	23.91	1.29	25.2	25.2
		1	0	23.83	1.29	25.12	25.12
16QAM	LCH	5	0	24.18	1.29	25.47	25.47
		1	0	23.83	1.29	25.12	25.12
	MCH	5	0	23.97	1.29	25.26	25.26
		1	0	24.25	1.29	25.54	25.54
	HCH	5	0	24.13	1.29	25.42	25.42
		1	0	23.49	1.29	24.78	24.78

Remark: EIRP limit for FCC/IC band 4 is 30dBm, so test result is pass.

LTE FDD Band 4, Nominal Bandwidth: 20MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	24.05	1.29	25.34	25.34
		1	0	24.17	1.29	25.46	25.46
	MCH	6	0	23.96	1.29	25.25	25.25
		1	0	24.24	1.29	25.53	25.53
	HCH	6	0	23.93	1.29	25.22	25.22
		1	0	23.95	1.29	25.24	25.24
16QAM	LCH	5	0	24.18	1.29	25.47	25.47
		1	0	23.95	1.29	25.24	25.24
	MCH	5	0	23.99	1.29	25.28	25.28
		1	0	24.25	1.29	25.54	25.54
	HCH	5	0	24.07	1.29	25.36	25.36
		1	0	23.59	1.29	24.88	24.88

Remark: EIRP limit for FCC/IC band 4 is 30dBm, so test result is pass.

Test Result for Cat M1 Band 5

LTE FDD Band 5, Nominal Bandwidth: 1.4MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.41	1.36	20.62	20.62
		1	0	23.41	1.36	22.62	22.62
	MCH	6	0	21.65	1.36	20.86	20.86
		1	0	23.69	1.36	22.9	22.9
	HCH	6	0	21.54	1.36	20.75	20.75
		1	0	23.51	1.36	22.72	22.72
16QAM	LCH	5	0	21.25	1.36	20.46	20.46
		1	0	22.37	1.36	21.58	21.58
	MCH	5	0	21.67	1.36	20.88	20.88
		1	0	22.1	1.36	21.31	21.31
	HCH	5	0	21.56	1.36	20.77	20.77
		1	0	22.2	1.36	21.41	21.41

Remark: ERP limit for FCC/IC band 5 is 38.45dBm, so test result is pass.

LTE FDD Band 5, Nominal Bandwidth: 3MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.39	1.36	20.6	20.6
		1	0	23.56	1.36	22.77	22.77
	MCH	6	0	21.7	1.36	20.91	20.91
		1	0	23.83	1.36	23.04	23.04
	HCH	6	0	21.54	1.36	20.75	20.75
		1	0	23.52	1.36	22.73	22.73
16QAM	LCH	5	0	21.44	1.36	20.65	20.65
		1	0	22.38	1.36	21.59	21.59
	MCH	5	0	21.52	1.36	20.73	20.73
		1	0	22.88	1.36	22.09	22.09
	HCH	5	0	21.67	1.36	20.88	20.88
		1	0	22.21	1.36	21.42	21.42

Remark: ERP limit for FCC/IC band 5 is 38.45dBm, so test result is pass.

LTE FDD Band 5, Nominal Bandwidth: 5MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.46	1.36	21.67	21.67
		1	0	23.64	1.36	22.85	22.85
	MCH	6	0	22.65	1.36	21.86	21.86
		1	0	23.84	1.36	23.05	23.05
	HCH	6	0	22.58	1.36	21.79	21.79
		1	0	23.5	1.36	22.71	22.71
16QAM	LCH	5	0	21.16	1.36	20.37	20.37
		1	0	23.34	1.36	22.55	22.55
	MCH	5	0	21.56	1.36	20.77	20.77
		1	0	23.96	1.36	23.17	23.17
	HCH	5	0	21.48	1.36	20.69	20.69
		1	0	23.23	1.36	22.44	22.44

Remark: ERP limit for FCC/IC band 5 is 38.45dBm, so test result is pass.

LTE FDD Band 5, Nominal Bandwidth: 10MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.44	1.36	21.65	21.65
		1	0	23.53	1.36	22.74	22.74
	MCH	6	0	22.63	1.36	21.84	21.84
		1	0	23.82	1.36	23.03	23.03
	HCH	6	0	22.51	1.36	21.72	21.72
		1	0	23.67	1.36	22.88	22.88
16QAM	LCH	5	0	22.31	1.36	21.52	21.52
		1	0	23.13	1.36	22.34	22.34
	MCH	5	0	22.6	1.36	21.81	21.81
		1	0	23.88	1.36	23.09	23.09
	HCH	5	0	22.41	1.36	21.62	21.62
		1	0	23.39	1.36	22.6	22.6

Remark: ERP limit for FCC/IC band 5 is 38.45dBm, so test result is pass.

Test Result for Cat M1 Band 12

LTE FDD Band 12, Nominal Bandwidth: 1.4MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	20.86	-3.24	15.47	15.47
		1	0	22.97	-3.24	17.58	17.58
	MCH	6	0	21.37	-3.24	15.98	15.98
		1	0	23.01	-3.24	17.62	17.62
	HCH	6	0	20.99	-3.24	15.6	15.6
		1	0	22.75	-3.24	17.36	17.36
16QAM	LCH	5	0	20.7	-3.24	15.31	15.31
		1	0	22.42	-3.24	17.03	17.03
	MCH	5	0	21.44	-3.24	16.05	16.05
		1	0	22.49	-3.24	17.1	17.1
	HCH	5	0	20.96	-3.24	15.57	15.57
		1	0	22.21	-3.24	16.82	16.82

Remark: ERP limit for FCC/IC band 12 is 34.77dBm, so test result is pass.

LTE FDD Band 12, Nominal Bandwidth: 3MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.27	-3.24	15.88	15.88
		1	0	22.93	-3.24	17.54	17.54
	MCH	6	0	21.53	-3.24	16.14	16.14
		1	0	23.37	-3.24	17.98	17.98
	HCH	6	0	21.26	-3.24	15.87	15.87
		1	0	23.02	-3.24	17.63	17.63
16QAM	LCH	5	0	21.26	-3.24	15.87	15.87
		1	0	22.02	-3.24	16.63	16.63
	MCH	5	0	21.61	-3.24	16.22	16.22
		1	0	22.36	-3.24	16.97	16.97
	HCH	5	0	21.32	-3.24	15.93	15.93
		1	0	22	-3.24	16.61	16.61

Remark: ERP limit for FCC/IC band 12 is 34.77dBm, so test result is pass.

LTE FDD Band 12, Nominal Bandwidth: 5MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.31	-3.24	16.92	16.92
		1	0	23.44	-3.24	18.05	18.05
	MCH	6	0	22.62	-3.24	17.23	17.23
		1	0	23.82	-3.24	18.43	18.43
	HCH	6	0	22.36	-3.24	16.97	16.97
		1	0	23.31	-3.24	17.92	17.92
16QAM	LCH	5	0	21.01	-3.24	15.62	15.62
		1	0	22.87	-3.24	17.48	17.48
	MCH	5	0	21.5	-3.24	16.11	16.11
		1	0	23.3	-3.24	17.91	17.91
	HCH	5	0	21.14	-3.24	15.75	15.75
		1	0	22.76	-3.24	17.37	17.37

Remark: ERP limit for FCC/IC band 12 is 34.77dBm, so test result is pass.

LTE FDD Band 12, Nominal Bandwidth: 10MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.41	-3.24	17.02	17.02
		1	0	23.45	-3.24	18.06	18.06
	MCH	6	0	22.57	-3.24	17.18	17.18
		1	0	23.6	-3.24	18.21	18.21
	HCH	6	0	22.29	-3.24	16.9	16.9
		1	0	23.41	-3.24	18.02	18.02
16QAM	LCH	5	0	22.22	-3.24	16.83	16.83
		1	0	22.78	-3.24	17.39	17.39
	MCH	5	0	22.37	-3.24	16.98	16.98
		1	0	22.93	-3.24	17.54	17.54
	HCH	5	0	22.23	-3.24	16.84	16.84
		1	0	22.83	-3.24	17.44	17.44

Remark: ERP limit for FCC/IC band 12 is 34.77dBm, so test result is pass.

Test Result for Cat M1 Band 13

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	23205	QPSK	1	0	Low	22.24	21.05	34.77	PASS
Band13	5MHz	23205	QPSK	1	5	Low	22.14	20.95	34.77	PASS
Band13	5MHz	23205	QPSK	6	0	Low	21.36	20.17	34.77	PASS
Band13	5MHz	23230	QPSK	1	0	Low	22.37	21.18	34.77	PASS
Band13	5MHz	23230	QPSK	1	5	Low	22.15	20.96	34.77	PASS
Band13	5MHz	23230	QPSK	6	0	Low	21.33	20.14	34.77	PASS
Band13	5MHz	23255	QPSK	1	0	High	22.23	21.04	34.77	PASS
Band13	5MHz	23255	QPSK	1	5	High	22.06	20.87	34.77	PASS
Band13	5MHz	23255	QPSK	6	0	High	21.31	20.12	34.77	PASS
Band13	10MHz	23230	QPSK	1	0	Low	22.36	21.17	34.77	PASS
Band13	10MHz	23230	QPSK	1	5	Low	22.13	20.94	34.77	PASS
Band13	10MHz	23230	QPSK	6	0	Low	21.31	20.12	34.77	PASS
Band13	10MHz	23230	QPSK	1	0	High	22.22	21.03	34.77	PASS
Band13	10MHz	23230	QPSK	1	5	High	22.06	20.87	34.77	PASS
Band13	10MHz	23230	QPSK	6	0	High	21.25	20.06	34.77	PASS
Band13	5MHz	23205	16QAM	1	0	Low	22.61	21.42	34.77	PASS
Band13	5MHz	23205	16QAM	1	5	Low	22.50	21.31	34.77	PASS
Band13	5MHz	23205	16QAM	5	0	Low	21.25	20.06	34.77	PASS
Band13	5MHz	23230	16QAM	1	0	Low	22.34	21.15	34.77	PASS
Band13	5MHz	23230	16QAM	1	5	Low	22.14	20.95	34.77	PASS
Band13	5MHz	23230	16QAM	5	0	Low	21.15	19.96	34.77	PASS
Band13	5MHz	23255	16QAM	1	0	High	22.61	21.42	34.77	PASS
Band13	5MHz	23255	16QAM	1	5	High	22.32	21.13	34.77	PASS
Band13	5MHz	23255	16QAM	5	0	High	21.10	19.91	34.77	PASS
Band13	10MHz	23230	16QAM	1	0	Low	22.66	21.47	34.77	PASS
Band13	10MHz	23230	16QAM	1	5	Low	22.39	21.2	34.77	PASS
Band13	10MHz	23230	16QAM	5	0	Low	22.40	21.21	34.77	PASS
Band13	10MHz	23230	16QAM	1	0	High	22.55	21.36	34.77	PASS
Band13	10MHz	23230	16QAM	1	5	High	22.14	20.95	34.77	PASS
Band13	10MHz	23230	16QAM	5	0	High	22.22	21.03	34.77	PASS

Test Result for Cat M1 Band 25

LTE FDD Band 25, Nominal Bandwidth: 1.4MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.44	1.58	23.02	23.02
		1	0	23.56	1.58	25.14	25.14
	MCH	6	0	21.54	1.58	23.12	23.12
		1	0	23.84	1.58	25.42	25.42
	HCH	6	0	21.6	1.58	23.18	23.18
		1	0	23.54	1.58	25.12	25.12
16QAM	LCH	5	0	21.45	1.58	23.03	23.03
		1	0	22.45	1.58	24.03	24.03
	MCH	5	0	21.22	1.58	22.8	22.8
		1	0	22.52	1.58	24.1	24.1
	HCH	5	0	21.56	1.58	23.14	23.14
		1	0	22.51	1.58	24.09	24.09

Remark: EIRP limit for FCC/IC band 25 is 33dBm, so test result is pass.

LTE FDD Band 25, Nominal Bandwidth: 3MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.51	1.58	23.09	23.09
		1	0	23.66	1.58	25.24	25.24
	MCH	6	0	21.63	1.58	23.21	23.21
		1	0	23.85	1.58	25.43	25.43
	HCH	6	0	21.57	1.58	23.15	23.15
		1	0	23.7	1.58	25.28	25.28
16QAM	LCH	5	0	21.49	1.58	23.07	23.07
		1	0	22.52	1.58	24.1	24.1
	MCH	5	0	21.44	1.58	23.02	23.02
		1	0	22.54	1.58	24.12	24.12
	HCH	5	0	21.74	1.58	23.32	23.32
		1	0	22.45	1.58	24.03	24.03

Remark: EIRP limit for FCC/IC band 25 is 33dBm, so test result is pass.

LTE FDD Band 25, Nominal Bandwidth: 5MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.57	1.58	24.15	24.15
		1	0	23.78	1.58	25.36	25.36
	MCH	6	0	22.57	1.58	24.15	24.15
		1	0	23.87	1.58	25.45	25.45
	HCH	6	0	22.69	1.58	24.27	24.27
		1	0	23.67	1.58	25.25	25.25
16QAM	LCH	5	0	21.76	1.58	23.34	23.34
		1	0	24.06	1.58	25.64	25.64
	MCH	5	0	21.79	1.58	23.37	23.37
		1	0	23.99	1.58	25.57	25.57
	HCH	5	0	21.87	1.58	23.45	23.45
		1	0	23.79	1.58	25.37	25.37

Remark: EIRP limit for FCC/IC band 25 is 33dBm, so test result is pass.

LTE FDD Band 25, Nominal Bandwidth: 10MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.44	1.58	24.02	24.02
		1	0	23.75	1.58	25.33	25.33
	MCH	6	0	22.49	1.58	24.07	24.07
		1	0	23.87	1.58	25.45	25.45
	HCH	6	0	22.64	1.58	24.22	24.22
		1	0	23.63	1.58	25.21	25.21
16QAM	LCH	5	0	22.67	1.58	24.25	24.25
		1	0	23.9	1.58	25.48	25.48
	MCH	5	0	22.45	1.58	24.03	24.03
		1	0	23.96	1.58	25.54	25.54
	HCH	5	0	22.83	1.58	24.41	24.41
		1	0	23.92	1.58	25.5	25.5

Remark: EIRP limit for FCC/IC band 25 is 33dBm, so test result is pass.

LTE FDD Band 25, Nominal Bandwidth: 15MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	23.53	1.58	25.11	25.11
		1	0	23.77	1.58	25.35	25.35
	MCH	6	0	23.69	1.58	25.27	25.27
		1	0	23.9	1.58	25.48	25.48
	HCH	6	0	23.66	1.58	25.24	25.24
		1	0	23.68	1.58	25.26	25.26
16QAM	LCH	5	0	23.82	1.58	25.4	25.4
		1	0	24.03	1.58	25.61	25.61
	MCH	5	0	23.8	1.58	25.38	25.38
		1	0	24.06	1.58	25.64	25.64
	HCH	5	0	23.76	1.58	25.34	25.34
		1	0	23.73	1.58	25.31	25.31

Remark: EIRP limit for FCC/IC band 25 is 33dBm, so test result is pass.

LTE FDD Band 25, Nominal Bandwidth: 20MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	23.54	1.58	25.12	25.12
		1	0	23.75	1.58	25.33	25.33
	MCH	6	0	23.67	1.58	25.25	25.25
		1	0	23.85	1.58	25.43	25.43
	HCH	6	0	23.66	1.58	25.24	25.24
		1	0	23.68	1.58	25.26	25.26
16QAM	LCH	5	0	23.83	1.58	25.41	25.41
		1	0	24.02	1.58	25.6	25.6
	MCH	5	0	23.76	1.58	25.34	25.34
		1	0	24.01	1.58	25.59	25.59
	HCH	5	0	23.9	1.58	25.48	25.48
		1	0	23.73	1.58	25.31	25.31

Remark: EIRP limit for FCC/IC band 25 is 33dBm, so test result is pass.

Test Result for Cat M1 Band 26(824 ~ 849 MHz)

LTE FDD Band 26b, Nominal Bandwidth: 1.4MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.43	1.36	20.64	20.64
		1	0	23.73	1.36	22.94	22.94
	MCH	6	0	21.49	1.36	20.7	20.7
		1	0	23.68	1.36	22.89	22.89
	HCH	6	0	21.36	1.36	20.57	20.57
		1	0	23.55	1.36	22.76	22.76
16QAM	LCH	5	0	21.36	1.36	20.57	20.57
		1	0	22.15	1.36	21.36	21.36
	MCH	5	0	21.41	1.36	20.62	20.62
		1	0	22.75	1.36	21.96	21.96
	HCH	5	0	21.42	1.36	20.63	20.63
		1	0	22.03	1.36	21.24	21.24

Remark: ERP limit for FCC/IC band 26b is 38.45dBm, so test result is pass.

LTE FDD Band 26b, Nominal Bandwidth: 3MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.45	1.36	20.66	20.66
		1	0	23.76	1.36	22.97	22.97
	MCH	6	0	21.48	1.36	20.69	20.69
		1	0	23.8	1.36	23.01	23.01
	HCH	6	0	21.36	1.36	20.57	20.57
		1	0	23.71	1.36	22.92	22.92
16QAM	LCH	5	0	21.24	1.36	20.45	20.45
		1	0	22.7	1.36	21.91	21.91
	MCH	5	0	21.35	1.36	20.56	20.56
		1	0	22.82	1.36	22.03	22.03
	HCH	5	0	21.28	1.36	20.49	20.49
		1	0	22.66	1.36	21.87	21.87

Remark: ERP limit for FCC/IC band 26b is 38.45dBm, so test result is pass.

LTE FDD Band 26b, Nominal Bandwidth: 5MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.65	1.36	21.86	21.86
		1	0	23.89	1.36	23.1	23.1
	MCH	6	0	22.78	1.36	21.99	21.99
		1	0	24.01	1.36	23.22	23.22
	HCH	6	0	22.7	1.36	21.91	21.91
		1	0	23.86	1.36	23.07	23.07
16QAM	LCH	5	0	21.51	1.36	20.72	20.72
		1	0	23.99	1.36	23.2	23.2
	MCH	5	0	21.65	1.36	20.86	20.86
		1	0	24.03	1.36	23.24	23.24
	HCH	5	0	21.42	1.36	20.63	20.63
		1	0	23.72	1.36	22.93	22.93

Remark: ERP limit for FCC/IC band 26b is 38.45dBm, so test result is pass.

LTE FDD Band 26b, Nominal Bandwidth: 10MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.54	1.36	21.75	21.75
		1	0	23.78	1.36	22.99	22.99
	MCH	6	0	22.66	1.36	21.87	21.87
		1	0	23.9	1.36	23.11	23.11
	HCH	6	0	22.66	1.36	21.87	21.87
		1	0	23.74	1.36	22.95	22.95
16QAM	LCH	5	0	22.59	1.36	21.8	21.8
		1	0	23.91	1.36	23.12	23.12
	MCH	5	0	22.63	1.36	21.84	21.84
		1	0	24.1	1.36	23.31	23.31
	HCH	5	0	22.64	1.36	21.85	21.85
		1	0	23.69	1.36	22.9	22.9

Remark: ERP limit for FCC/IC band 26b is 38.45dBm, so test result is pass.

LTE FDD Band 26b, Nominal Bandwidth: 15MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	23.78	1.36	22.99	22.99
		1	0	23.79	1.36	23	23
	MCH	6	0	23.85	1.36	23.06	23.06
		1	0	23.9	1.36	23.11	23.11
	HCH	6	0	23.73	1.36	22.94	22.94
		1	0	23.81	1.36	23.02	23.02
16QAM	LCH	5	0	23.72	1.36	22.93	22.93
		1	0	24.05	1.36	23.26	23.26
	MCH	5	0	23.75	1.36	22.96	22.96
		1	0	23.99	1.36	23.2	23.2
	HCH	5	0	23.6	1.36	22.81	22.81
		1	0	23.67	1.36	22.88	22.88

Remark: ERP limit for FCC/IC band 26b is 38.45dBm, so test result is pass.

Test Result for Cat M1 Band 66

LTE FDD Band 66, Nominal Bandwidth: 1.4MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.78	1.29	23.07	23.07
		1	0	24.17	1.29	25.46	25.46
	MCH	6	0	21.91	1.29	23.2	23.2
		1	0	24.01	1.29	25.3	25.3
	HCH	6	0	21.55	1.29	22.84	22.84
		1	0	23.52	1.29	24.81	24.81
16QAM	LCH	5	0	21.83	1.29	23.12	23.12
		1	0	22.81	1.29	24.1	24.1
	MCH	5	0	21.58	1.29	22.87	22.87
		1	0	22.47	1.29	23.76	23.76
	HCH	5	0	21.57	1.29	22.86	22.86
		1	0	22.33	1.29	23.62	23.62

Remark: EIRP limit for FCC/IC band 66 is 30dBm, so test result is pass.

LTE FDD Band 66, Nominal Bandwidth: 3MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	21.95	1.29	23.24	23.24
		1	0	23.99	1.29	25.28	25.28
	MCH	6	0	21.84	1.29	23.13	23.13
		1	0	24.07	1.29	25.36	25.36
	HCH	6	0	21.55	1.29	22.84	22.84
		1	0	23.52	1.29	24.81	24.81
16QAM	LCH	5	0	21.67	1.29	22.96	22.96
		1	0	22.8	1.29	24.09	24.09
	MCH	5	0	21.54	1.29	22.83	22.83
		1	0	22.87	1.29	24.16	24.16
	HCH	5	0	21.56	1.29	22.85	22.85
		1	0	22.43	1.29	23.72	23.72

Remark: EIRP limit for FCC/IC band 66 is 30dBm, so test result is pass.

LTE FDD Band 66, Nominal Bandwidth: 5MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.92	1.29	24.21	24.21
		1	0	24.03	1.29	25.32	25.32
	MCH	6	0	22.99	1.29	24.28	24.28
		1	0	24.25	1.29	25.54	25.54
	HCH	6	0	22.59	1.29	23.88	23.88
		1	0	23.59	1.29	24.88	24.88
16QAM	LCH	5	0	22.05	1.29	23.34	23.34
		1	0	23.86	1.29	25.15	25.15
	MCH	5	0	21.98	1.29	23.27	23.27
		1	0	24.16	1.29	25.45	25.45
	HCH	5	0	21.75	1.29	23.04	23.04
		1	0	23.79	1.29	25.08	25.08

Remark: EIRP limit for FCC/IC band 66 is 30dBm, so test result is pass.

LTE FDD Band 66, Nominal Bandwidth: 10MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.78	1.29	24.07	24.07
		1	0	23.94	1.29	25.23	25.23
	MCH	6	0	22.89	1.29	24.18	24.18
		1	0	24.16	1.29	25.45	25.45
	HCH	6	0	22.6	1.29	23.89	23.89
		1	0	23.56	1.29	24.85	24.85
16QAM	LCH	5	0	23.06	1.29	24.35	24.35
		1	0	23.65	1.29	24.94	24.94
	MCH	5	0	22.89	1.29	24.18	24.18
		1	0	24.18	1.29	25.47	25.47
	HCH	5	0	22.78	1.29	24.07	24.07
		1	0	23.88	1.29	25.17	25.17

Remark: EIRP limit for FCC/IC band 66 is 30dBm, so test result is pass.

LTE FDD Band 66, Nominal Bandwidth: 15MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	23.86	1.29	25.15	25.15
		1	0	24.12	1.29	25.41	25.41
	MCH	6	0	23.85	1.29	25.14	25.14
		1	0	24.17	1.29	25.46	25.46
	HCH	6	0	23.61	1.29	24.9	24.9
		1	0	23.52	1.29	24.81	24.81
16QAM	LCH	5	0	23.8	1.29	25.09	25.09
		1	0	24.24	1.29	25.53	25.53
	MCH	5	0	23.97	1.29	25.26	25.26
		1	0	24.24	1.29	25.53	25.53
	HCH	5	0	23.86	1.29	25.15	25.15
		1	0	23.93	1.29	25.22	25.22

Remark: EIRP limit for FCC/IC band 66 is 30dBm, so test result is pass.

LTE FDD Band 66, Nominal Bandwidth: 20MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: EIRP (dBm)	IC: EIRP (dBm)
		Size	Offset				
QPSK	LCH	6	0	23.9	1.29	25.19	25.19
		1	0	24.19	1.29	25.48	25.48
	MCH	6	0	23.8	1.29	25.09	25.09
		1	0	24.09	1.29	25.38	25.38
	HCH	6	0	23.62	1.29	24.91	24.91
		1	0	23.53	1.29	24.82	24.82
16QAM	LCH	5	0	23.92	1.29	25.21	25.21
		1	0	24.14	1.29	25.43	25.43
	MCH	5	0	23.84	1.29	25.13	25.13
		1	0	24.1	1.29	25.39	25.39
	HCH	5	0	23.77	1.29	25.06	25.06
		1	0	23.84	1.29	25.13	25.13

Remark: EIRP limit for FCC/IC band 66 is 30dBm, so test result is pass.

Test Result for Cat M1 Band 85

LTE FDD Band 85, Nominal Bandwidth: 5MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.48	-3.24	17.09	17.09
		1	0	23.86	-3.24	18.47	18.47
	MCH	6	0	22.51	-3.24	17.12	17.12
		1	0	23.81	-3.24	18.42	18.42
	HCH	6	0	22.45	-3.24	17.06	17.06
		1	0	23.56	-3.24	18.17	18.17
16QAM	LCH	5	0	21.34	-3.24	15.95	15.95
		1	0	23.32	-3.24	17.93	17.93
	MCH	5	0	21.56	-3.24	16.17	16.17
		1	0	23.82	-3.24	18.43	18.43
	HCH	5	0	21.41	-3.24	16.02	16.02
		1	0	23.53	-3.24	18.14	18.14

Remark: ERP limit for FCC/IC band 85 is 34.77dBm, so test result is pass.

LTE FDD Band 85, Nominal Bandwidth: 10MHz							
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)	FCC: ERP (dBm)	IC: ERP (dBm)
		Size	Offset				
QPSK	LCH	6	0	22.46	-3.24	17.07	17.07
		1	0	23.78	-3.24	18.39	18.39
	MCH	6	0	22.46	-3.24	17.07	17.07
		1	0	23.76	-3.24	18.37	18.37
	HCH	6	0	22.43	-3.24	17.04	17.04
		1	0	23.56	-3.24	18.17	18.17
16QAM	LCH	5	0	22.48	-3.24	17.09	17.09
		1	0	23.83	-3.24	18.44	18.44
	MCH	5	0	22.46	-3.24	17.07	17.07
		1	0	23.79	-3.24	18.4	18.4
	HCH	5	0	22.44	-3.24	17.05	17.05
		1	0	23.62	-3.24	18.23	18.23

Remark: ERP limit for FCC/IC band 85 is 34.77dBm, so test result is pass.

Note:

1) EIRP= Conducted output power + Antenna gain

2) ERP= Conducted output power + Antenna gain-2.15

Transmitter Conducted Output Power**Test Result for Cat M1 Band 26(814 ~ 824 MHz)**

LTE FDD Band 26a, Nominal Bandwidth: 1.4MHz					
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)
		Size	Offset		
QPSK	LCH	6	0	21.17	1.54
		1	0	23.67	1.54
	MCH	6	0	21.24	1.54
		1	0	23.67	1.54
	HCH	6	0	21.42	1.54
		1	0	23.64	1.54
16QAM	LCH	5	0	21.17	1.54
		1	0	22.08	1.54
	MCH	5	0	21.07	1.54
		1	0	22.62	1.54
	HCH	5	0	21.34	1.54
		1	0	22.13	1.54

Remark: ERP limit for FCC/IC band 26a is 50dBm, so test result is pass.

LTE FDD Band 26a, Nominal Bandwidth: 3MHz					
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)
		Size	Offset		
QPSK	LCH	6	0	21.23	1.54
		1	0	23.56	1.54
	MCH	6	0	21.26	1.54
		1	0	23.78	1.54
	HCH	6	0	21.41	1.54
		1	0	23.63	1.54
16QAM	LCH	5	0	20.95	1.54
		1	0	22.5	1.54
	MCH	5	0	21.09	1.54
		1	0	22.64	1.54
	HCH	5	0	21.21	1.54
		1	0	22.68	1.54

Remark: ERP limit for FCC/ICand 26a is 50dBm, so test result is pass.

LTE FDD Band 26a, Nominal Bandwidth: 5MHz					
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)
		Size	Offset		
QPSK	LCH	6	0	22.58	1.54
		1	0	23.8	1.54
	MCH	6	0	22.6	1.54
		1	0	23.83	1.54
	HCH	6	0	22.73	1.54
		1	0	23.69	1.54
16QAM	LCH	5	0	21.22	1.54
		1	0	23.91	1.54
	MCH	5	0	21.33	1.54
		1	0	23.86	1.54
	HCH	5	0	21.48	1.54
		1	0	23.8	1.54

Remark: ERP limit for FCC/IC band 26a is 50dBm, so test result is pass.

LTE FDD Band 26a, Nominal Bandwidth: 10MHz					
Modulation	Channel	RB Configuration		Conducted output power (dBm)	Antenna gain (dBi)
		Size	Offset		
QPSK	MCH	6	0	22.57	1.54
		1	0	23.81	1.54
16QAM	MCH	5	0	22.36	1.54
		1	0	23.76	1.54

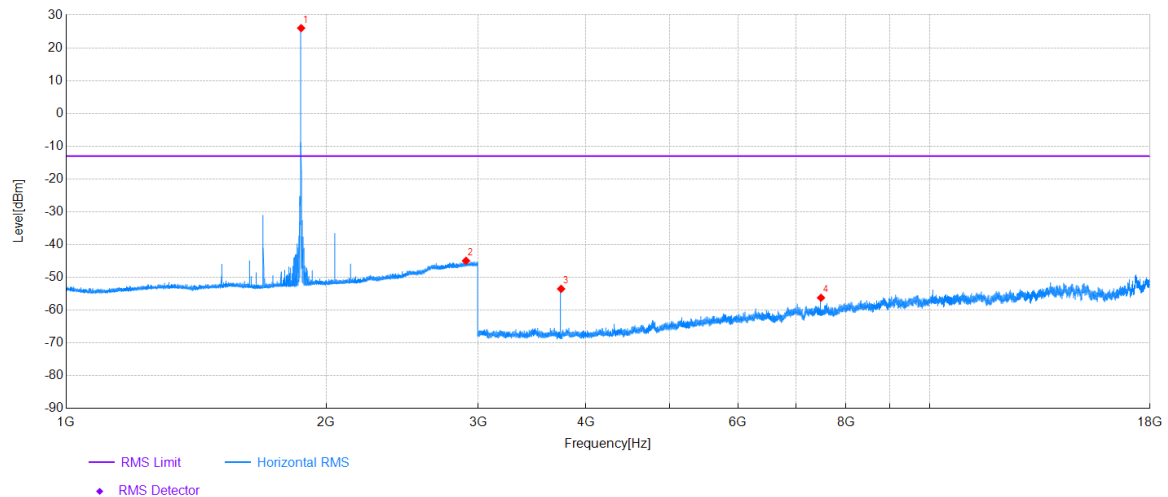
Remark: ERP limit for FCC/IC band 26a is 50dBm, so test result is pass.

Field Strength of Spurious Radiation

Test Result for LTE Cat M1

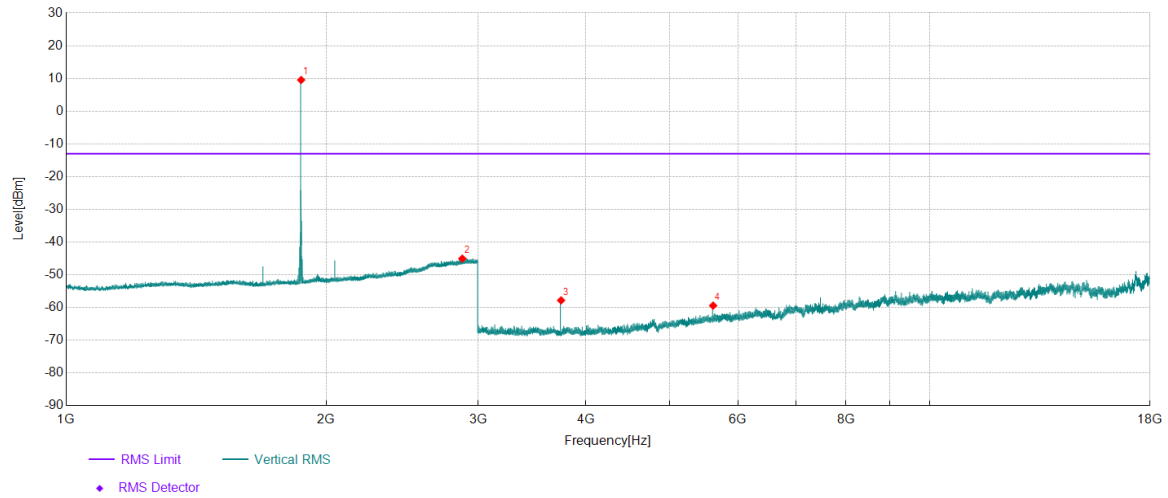
Project Information			
Mode:	Cat M	Band:	Band 2
Bandwidth:	20MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph



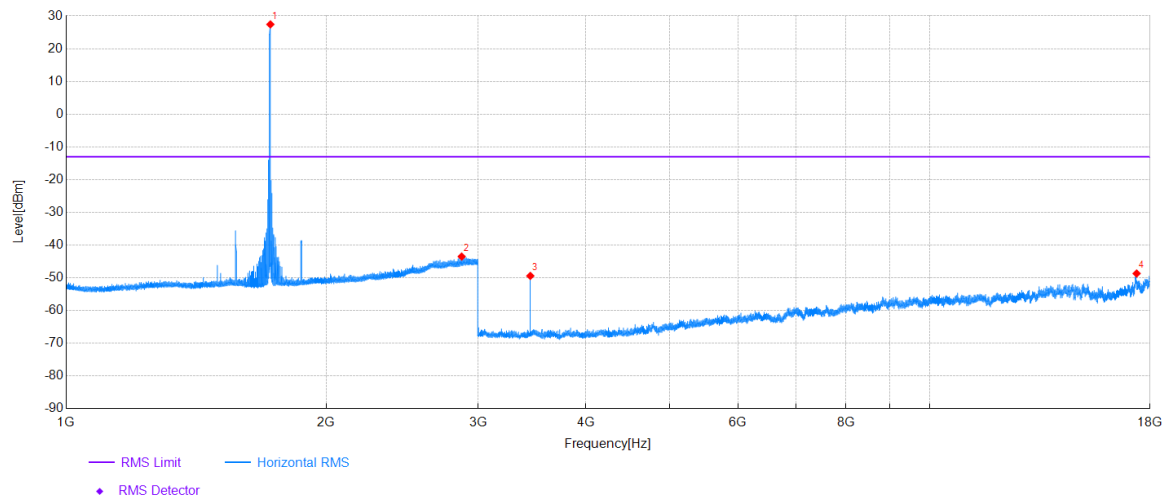
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1871.40	121.07	-95.06	26.01	-	-	Horizontal	NA
2	2904.60	45.55	-90.50	-44.95	-13.00	31.95	Horizontal	PASS
3	3743.00	53.92	-107.43	-53.51	-13.00	40.51	Horizontal	PASS
4	7485.50	40.59	-96.83	-56.24	-13.00	43.24	Horizontal	PASS

Project Information			
Mode:	Cat M	Band:	Band 2
Bandwidth:	20MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

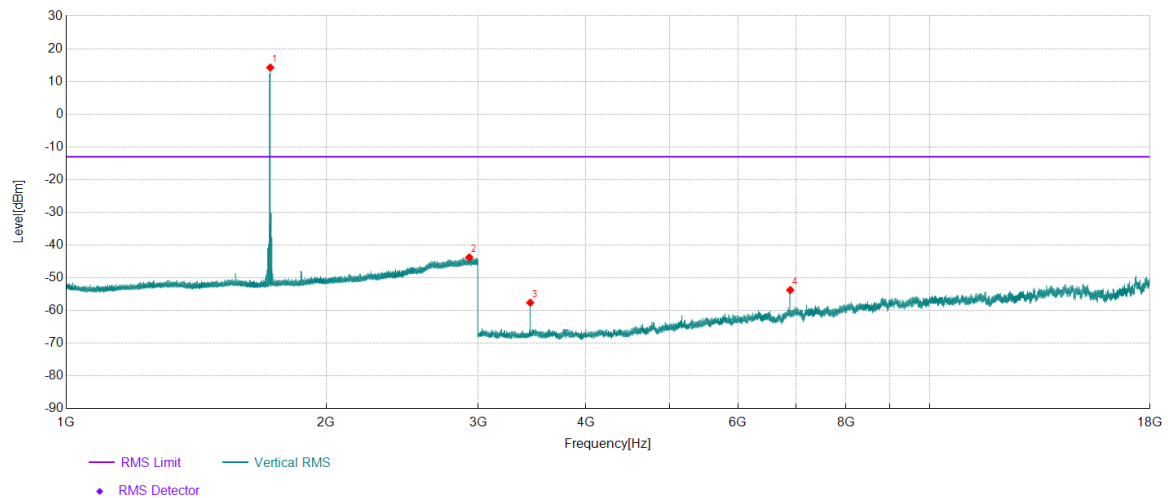
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1871.40	104.58	-95.06	9.52	-	-	Vertical	NA
2	2876.00	45.60	-90.67	-45.07	-13.00	32.07	Vertical	PASS
3	3743.00	49.61	-107.43	-57.82	-13.00	44.82	Vertical	PASS
4	5614.00	41.74	-101.18	-59.44	-13.00	46.44	Vertical	PASS

Project Information			
Mode:	Cat M	Band:	Band 4
Bandwidth:	20MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

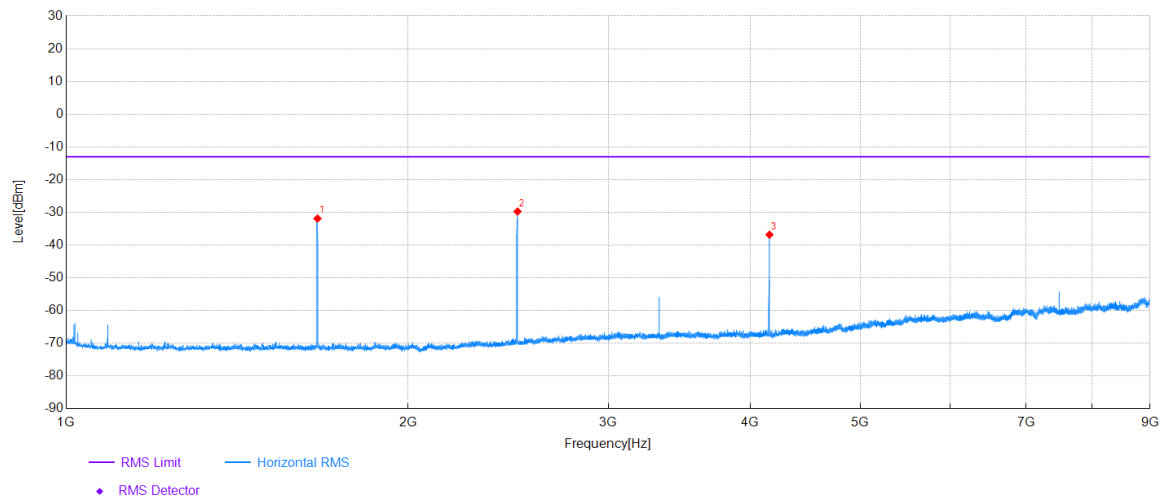
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1723.90	122.43	-95.01	27.42	-	-	Horizontal	NA
2	2871.20	47.18	-90.70	-43.52	-13.00	30.52	Horizontal	PASS
3	3448.00	57.88	-107.30	-49.42	-13.00	36.42	Horizontal	PASS
4	17367.50	34.38	-83.08	-48.70	-13.00	35.70	Horizontal	PASS

Project Information			
Mode:	Cat M	Band:	Band 4
Bandwidth:	20MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

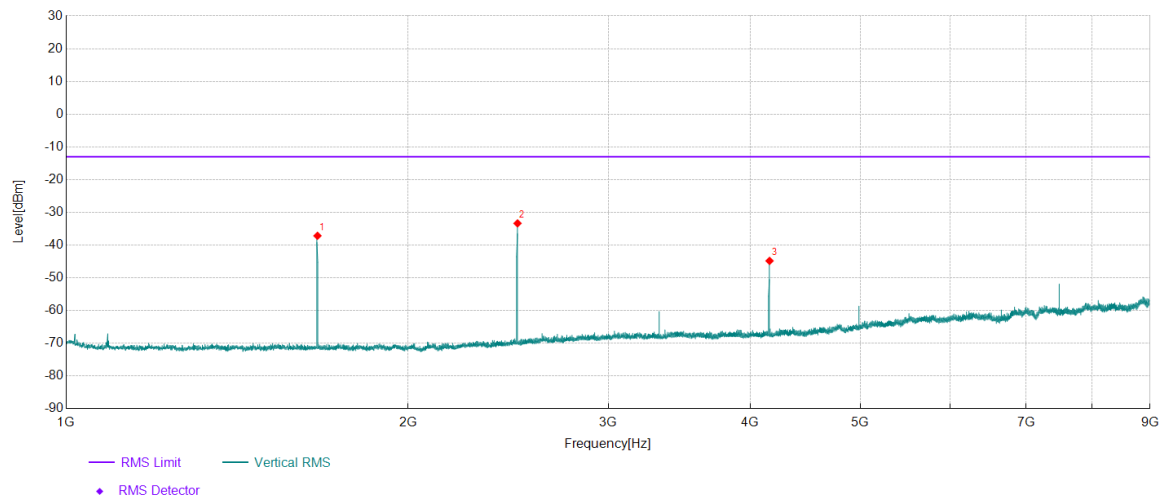
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1723.60	109.24	-95.01	14.23	-	-	Vertical	NA
2	2930.30	46.70	-90.47	-43.77	-13.00	30.77	Vertical	PASS
3	3447.00	49.68	-107.30	-57.62	-13.00	44.62	Vertical	PASS
4	6895.50	43.64	-97.40	-53.76	-13.00	40.76	Vertical	PASS

Project Information			
Mode:	Cat M	Band:	Band 5
Bandwidth:	10MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

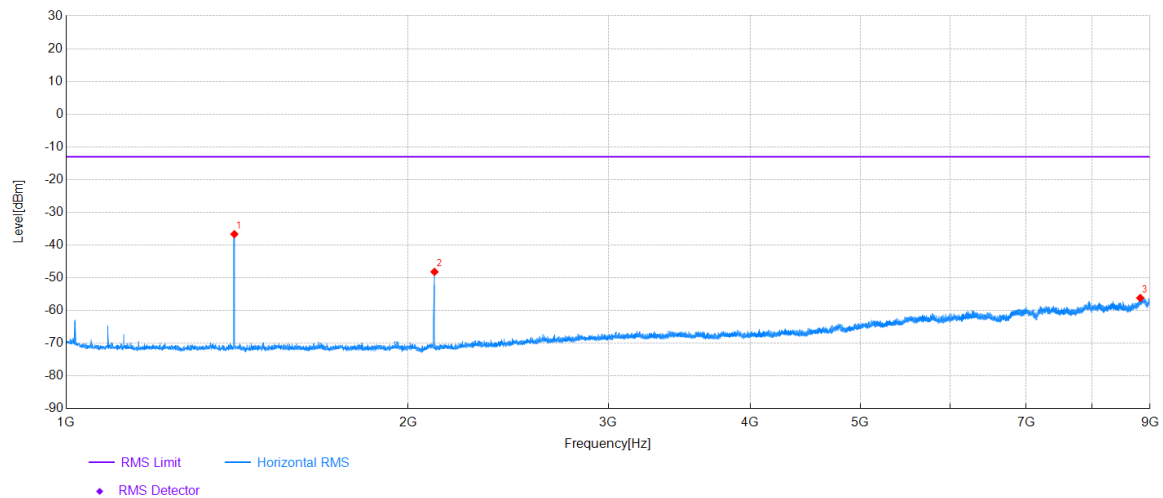
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1664.40	82.20	-114.12	-31.92	-13.00	18.92	Horizontal	PASS
2	2496.80	81.63	-111.38	-29.75	-13.00	16.75	Horizontal	PASS
3	4161.20	68.58	-105.41	-36.83	-13.00	23.83	Horizontal	PASS

Project Information			
Mode:	Cat M	Band:	Band 5
Bandwidth:	10MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

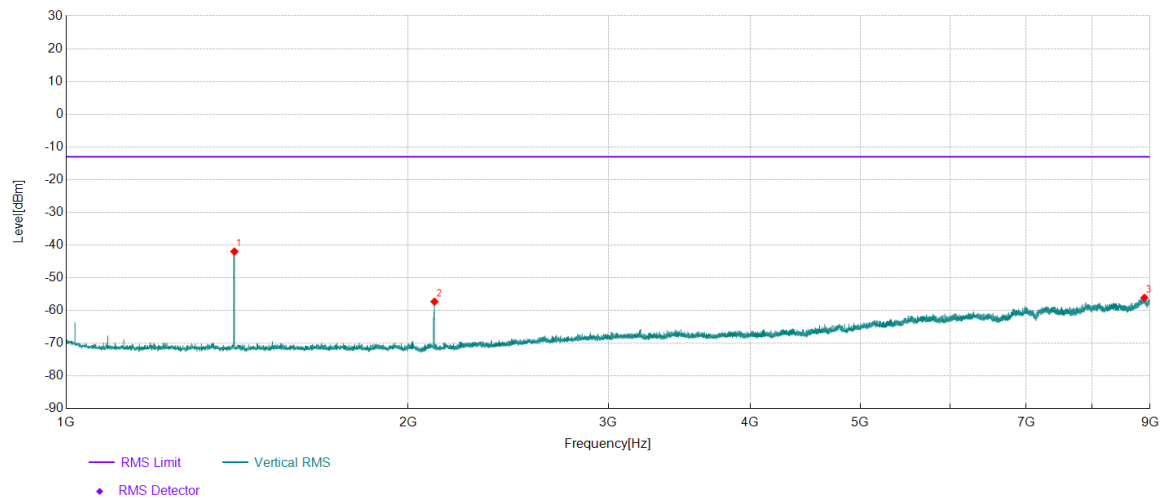
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1664.40	76.95	-114.12	-37.17	-13.00	24.17	Vertical	PASS
2	2496.80	78.01	-111.38	-33.37	-13.00	20.37	Vertical	PASS
3	4161.60	60.58	-105.41	-44.83	-13.00	31.83	Vertical	PASS

Project Information			
Mode:	Cat M	Band:	Band 12
Bandwidth:	10MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

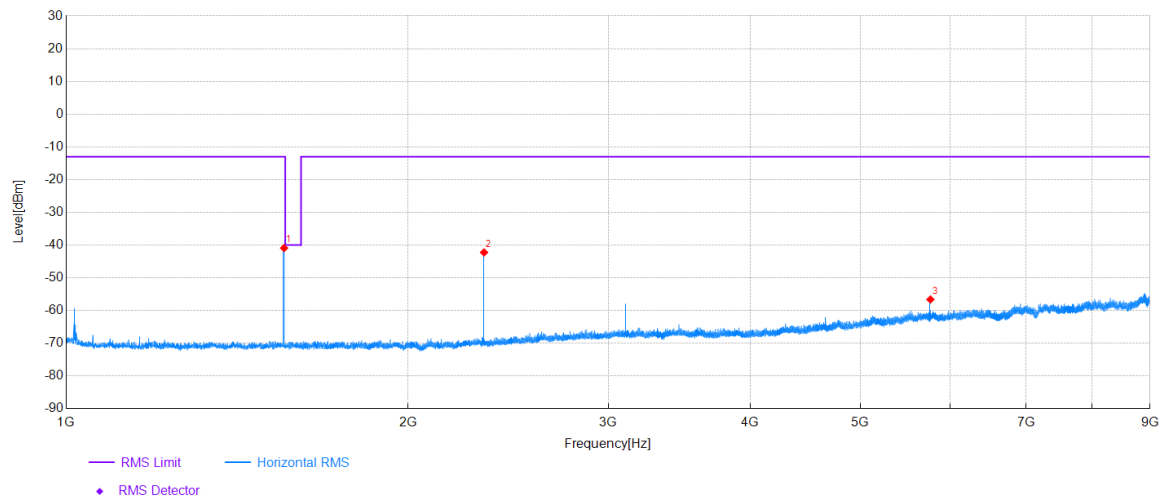
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1406.40	77.66	-114.33	-36.67	-13.00	23.67	Horizontal	PASS
2	2110.00	65.02	-113.21	-48.19	-13.00	35.19	Horizontal	PASS
3	8823.60	37.14	-93.32	-56.18	-13.00	43.18	Horizontal	PASS

Project Information			
Mode:	Cat M	Band:	Band 12
Bandwidth:	10MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

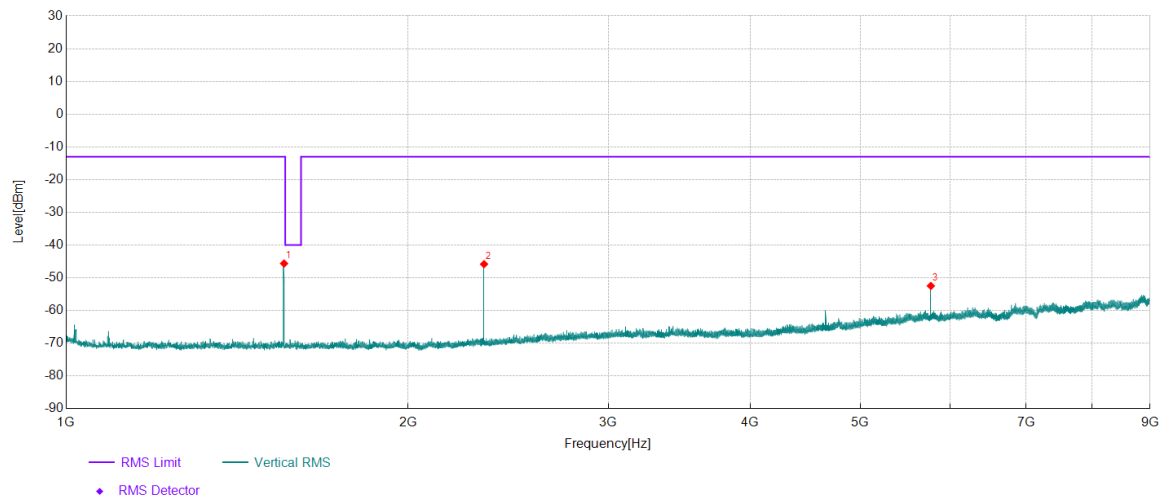
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1406.40	72.35	-114.33	-41.98	-13.00	28.98	Vertical	PASS
2	2110.00	55.90	-113.21	-57.31	-13.00	44.31	Vertical	PASS
3	8897.60	37.05	-93.16	-56.11	-13.00	43.11	Vertical	PASS

Project Information			
Mode:	Cat M	Band:	Band 13
Bandwidth:	10MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

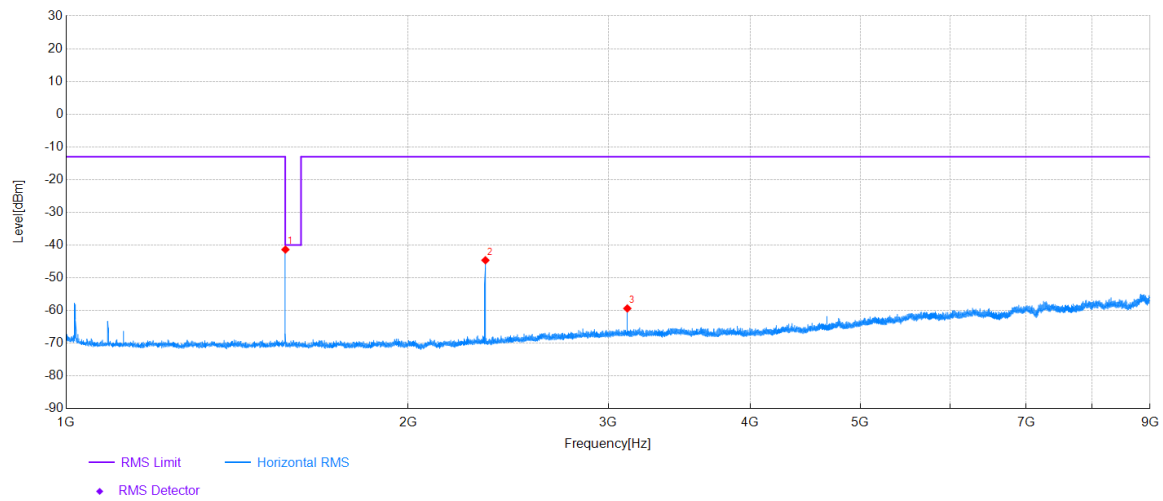
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1555.47	73.15	-114.07	-40.92	-13.00	27.92	Horizontal	PASS
2	2333.07	70.14	-112.39	-42.25	-13.00	29.25	Horizontal	PASS
3	5765.87	43.54	-100.17	-56.63	-13.00	43.63	Horizontal	PASS

Project Information			
Mode:	Cat M	Band:	Band 13
Bandwidth:	10MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

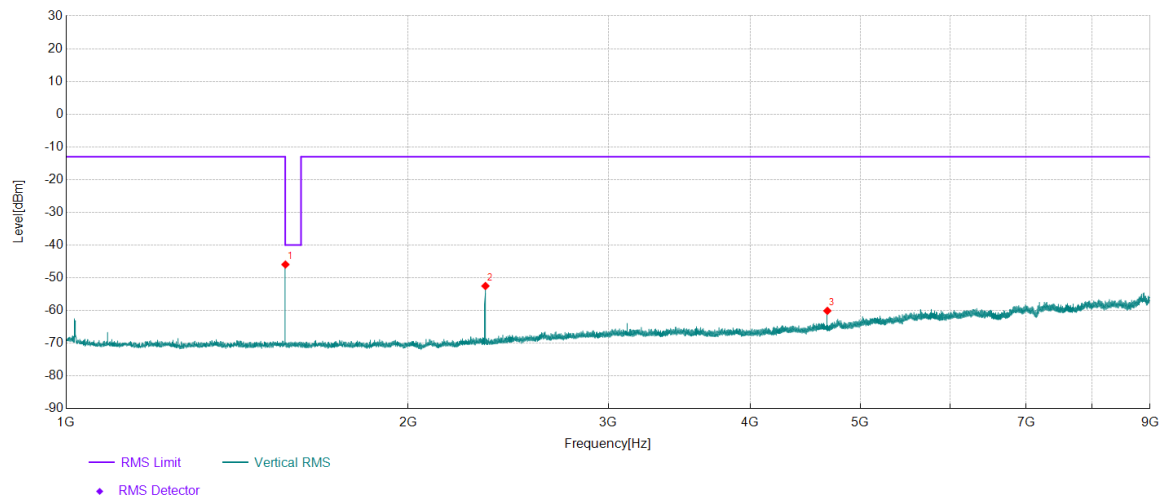
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1555.47	68.43	-114.07	-45.64	-13.00	32.64	Vertical	PASS
2	2333.07	66.56	-112.39	-45.83	-13.00	32.83	Vertical	PASS
3	5771.20	47.66	-100.15	-52.49	-13.00	39.49	Vertical	PASS

Project Information			
Mode:	Cat M	Band:	Band 13
Bandwidth:	5MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

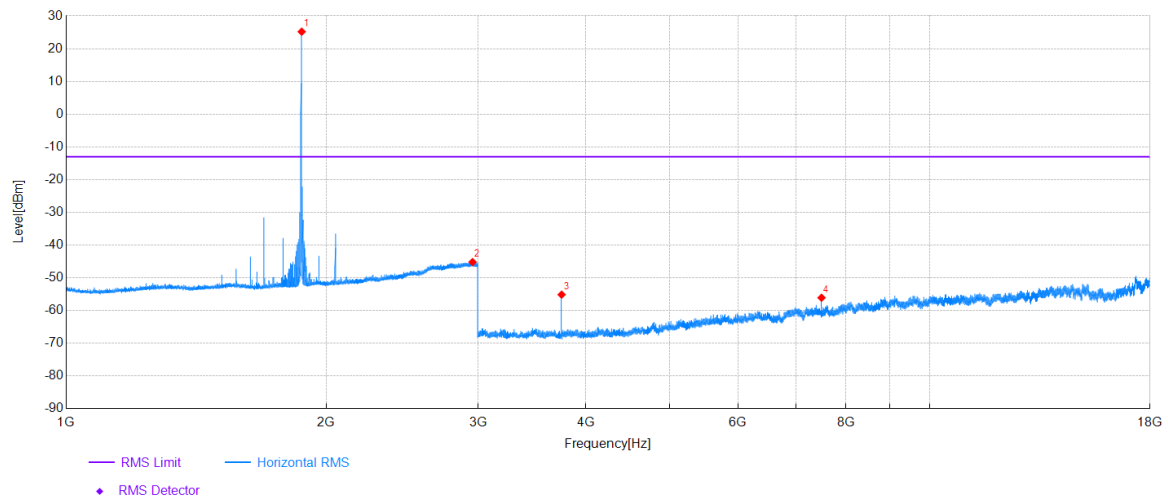
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1559.73	72.71	-114.09	-41.38	-40.00	1.38	Horizontal	PASS
2	2339.47	67.78	-112.43	-44.65	-13.00	31.65	Horizontal	PASS
3	3119.20	49.15	-108.53	-59.38	-13.00	46.38	Horizontal	PASS

Project Information			
Mode:	Cat M	Band:	Band 13
Bandwidth:	5MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

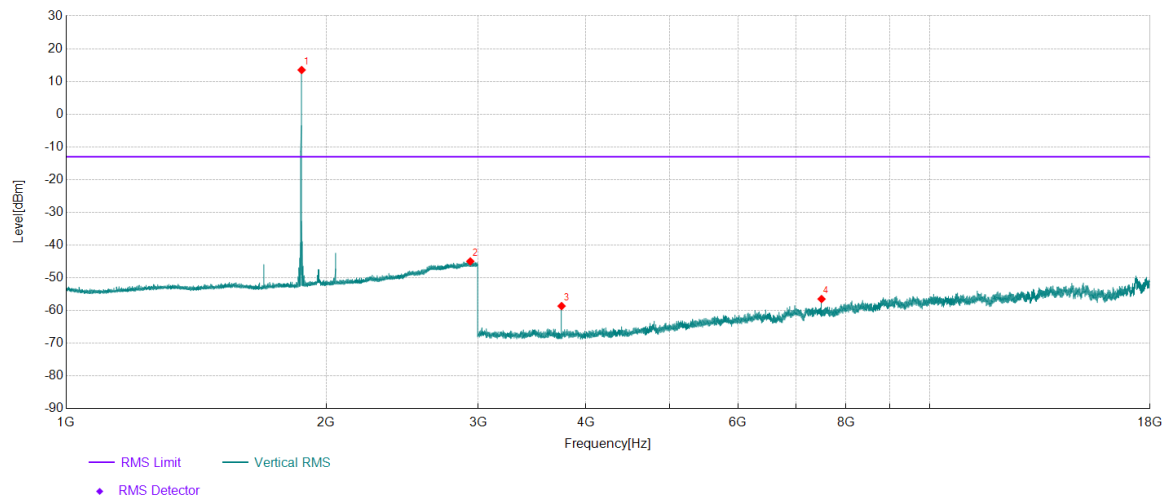
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1559.73	68.14	-114.09	-45.95	-40.00	5.95	Vertical	PASS
2	2339.47	59.92	-112.43	-52.51	-13.00	39.51	Vertical	PASS
3	4679.20	43.85	-103.94	-60.09	-13.00	47.09	Vertical	PASS

Project Information			
Mode:	Cat M	Band:	Band 25
Bandwidth:	20MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1874.00	120.23	-95.04	25.19	-	-	Horizontal	NA
2	2956.00	45.30	-90.50	-45.20	-13.00	32.20	Horizontal	PASS
3	3748.00	52.27	-107.42	-55.15	-13.00	42.15	Horizontal	PASS
4	7495.50	40.66	-96.76	-56.10	-13.00	43.10	Horizontal	PASS

Project Information			
Mode:	Cat M	Band:	Band 25
Bandwidth:	20MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

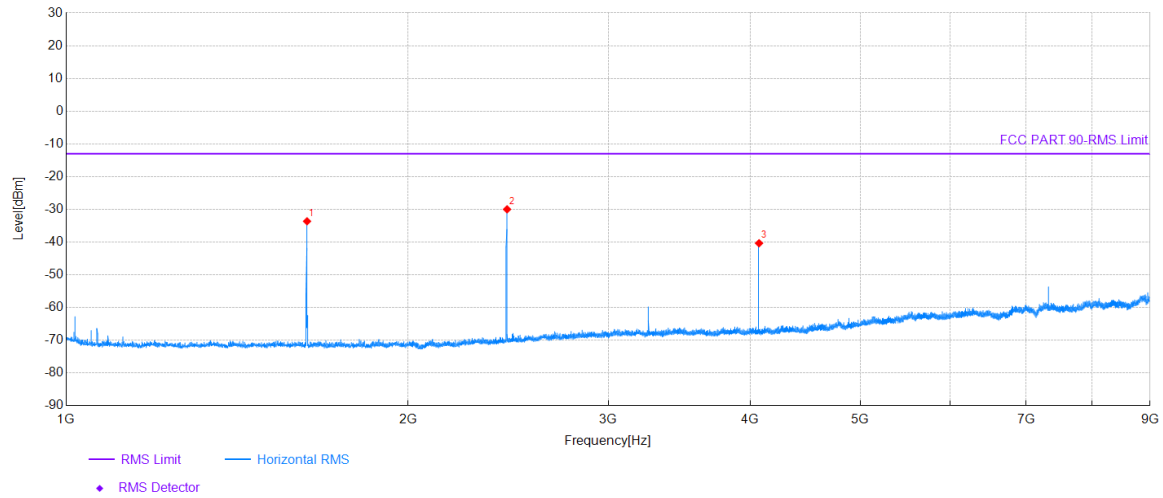
Test Graph

Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1874.00	108.53	-95.04	13.49	-	-	Vertical	NA
2	2938.20	45.46	-90.45	-44.99	-13.00	31.99	Vertical	PASS
3	3748.00	48.78	-107.42	-58.64	-13.00	45.64	Vertical	PASS
4	7496.00	40.27	-96.76	-56.49	-13.00	43.49	Vertical	PASS

Project Information

Mode:	Cat M	Band:	Band 26(814-824MHz)
Bandwidth:	10MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

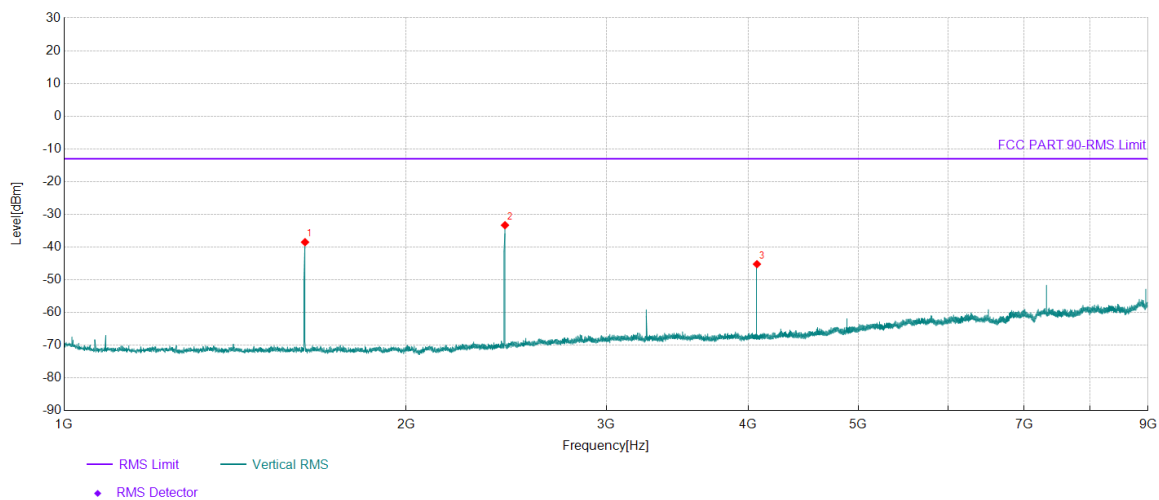
Test Graph



Data List

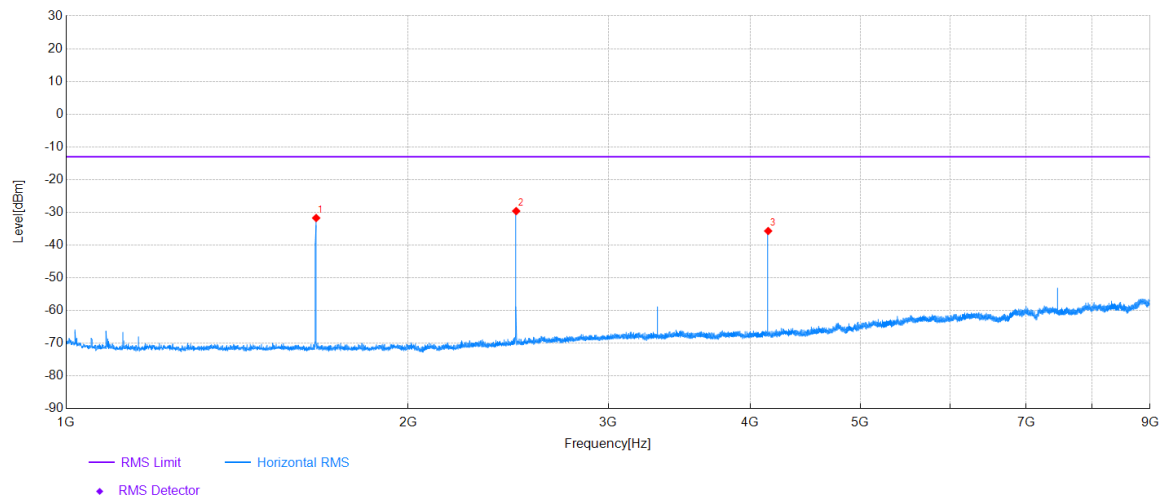
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1629.60	80.52	-114.17	-33.65	-13.00	20.65	Horizontal	PASS
2	2444.40	81.25	-111.24	-29.99	-13.00	16.99	Horizontal	PASS
3	4074.00	65.71	-106.07	-40.36	-13.00	27.36	Horizontal	PASS

Project Information			
Mode:	Cat M	Band:	Band 26(814-824MHz)
Bandwidth:	10MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph**Data List**

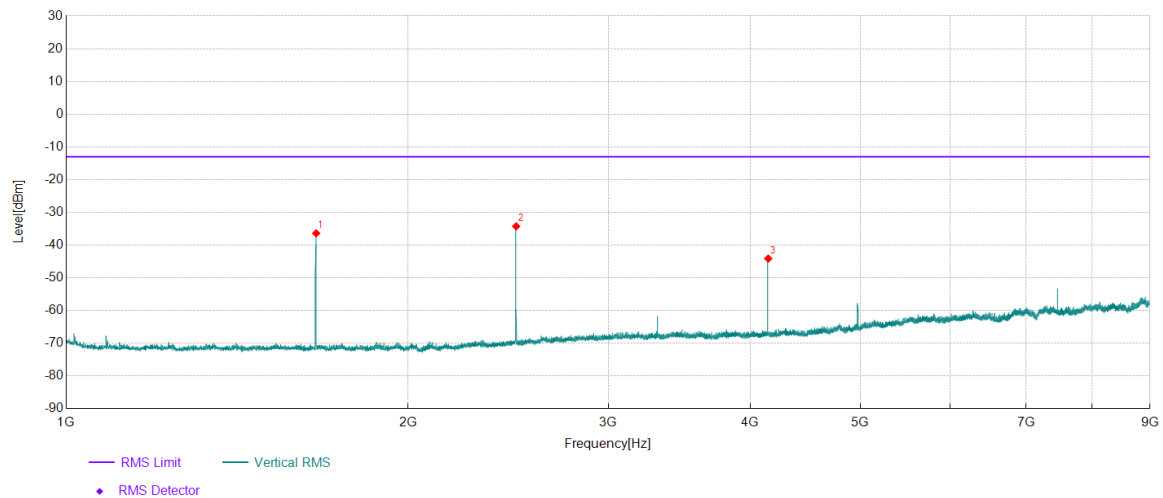
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1629.60	75.67	-114.17	-38.50	-13.00	25.50	Vertical	PASS
2	2444.00	77.92	-111.24	-33.32	-13.00	20.32	Vertical	PASS
3	4073.20	60.86	-106.07	-45.21	-13.00	32.21	Vertical	PASS

Project Information			
Mode:	Cat M	Band:	Band 26(824-849MHz)
Bandwidth:	15MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1660.00	82.38	-114.11	-31.73	-13.00	18.73	Horizontal	PASS
2	2490.00	81.72	-111.34	-29.62	-13.00	16.62	Horizontal	PASS
3	4150.00	69.67	-105.38	-35.71	-13.00	22.71	Horizontal	PASS

Project Information			
Mode:	Cat M	Band:	Band 26(824-849MHz)
Bandwidth:	15MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

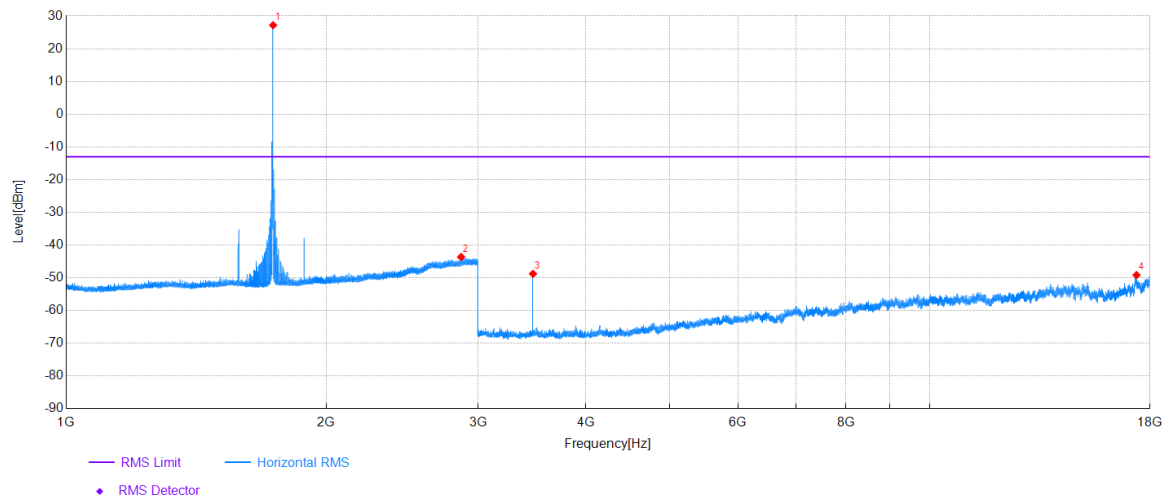
Test Graph

Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1660.00	77.71	-114.11	-36.40	-13.00	23.40	Vertical	PASS
2	2490.00	77.07	-111.34	-34.27	-13.00	21.27	Vertical	PASS
3	4150.40	61.25	-105.38	-44.13	-13.00	31.13	Vertical	PASS

Project Information

Mode:	Cat M	Band:	Band 66
Bandwidth:	20MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

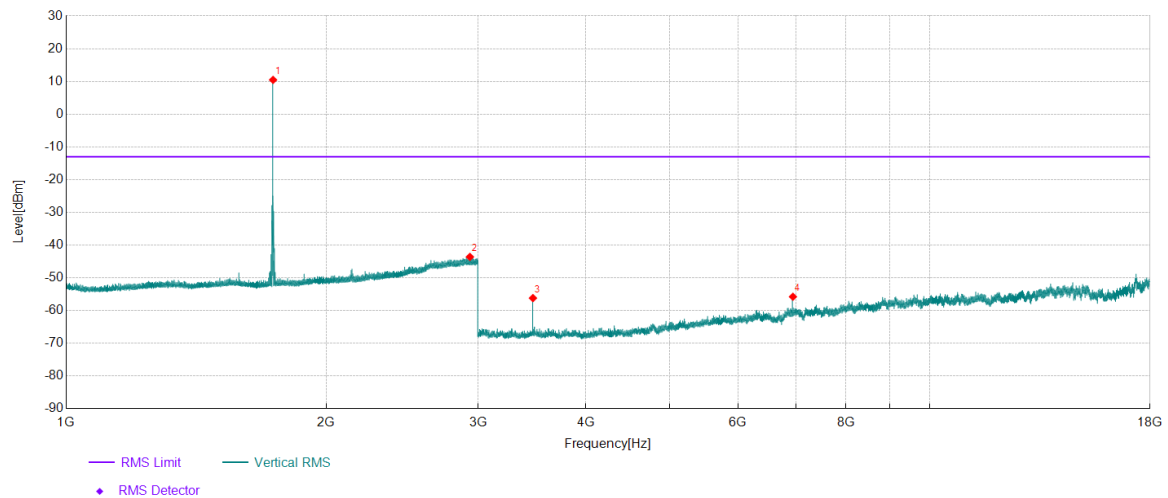
Test Graph



Data List

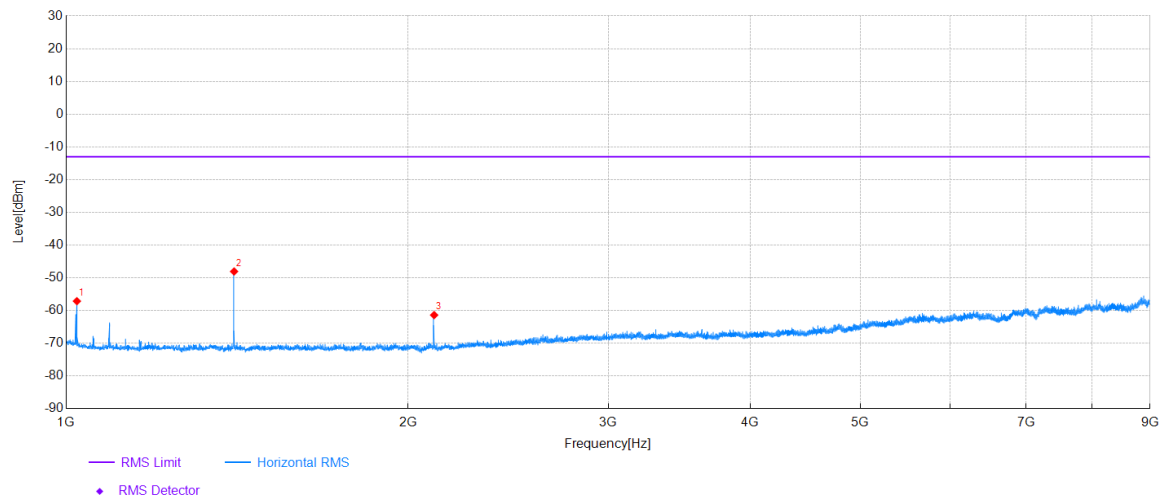
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1736.50	122.08	-94.91	27.17	-	-	Horizontal	NA
2	2867.30	47.07	-90.72	-43.65	-13.00	30.65	Horizontal	PASS
3	3473.00	58.34	-107.13	-48.79	-13.00	35.79	Horizontal	PASS
4	17362.50	33.72	-82.89	-49.17	-13.00	36.17	Horizontal	PASS

Project Information			
Mode:	Cat M	Band:	Band 66
Bandwidth:	20MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

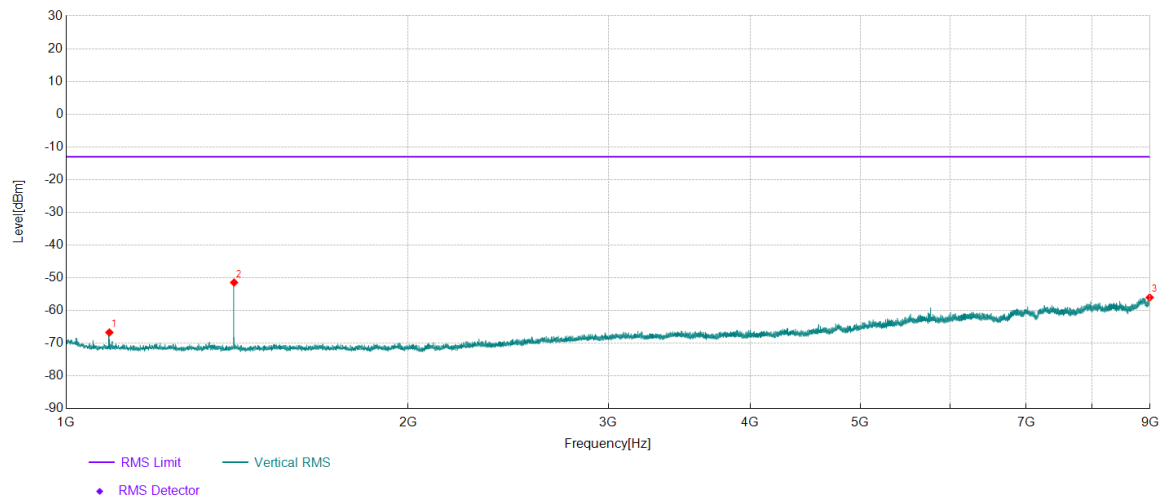
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1736.40	105.38	-94.91	10.47	-	-	Vertical	NA
2	2935.20	46.84	-90.46	-43.62	-13.00	30.62	Vertical	PASS
3	3472.00	50.95	-107.15	-56.20	-13.00	43.20	Vertical	PASS
4	6945.50	42.03	-97.82	-55.79	-13.00	42.79	Vertical	PASS

Project Information			
Mode:	Cat M	Band:	Band 85
Bandwidth:	10MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

Test Graph

Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1022.00	56.26	-113.40	-57.14	-13.00	44.14	Horizontal	PASS
2	1405.60	66.26	-114.33	-48.07	-13.00	35.07	Horizontal	PASS
3	2108.40	51.82	-113.21	-61.39	-13.00	48.39	Horizontal	PASS

Project Information			
Mode:	Cat M	Band:	Band 85
Bandwidth:	10MHz	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X		

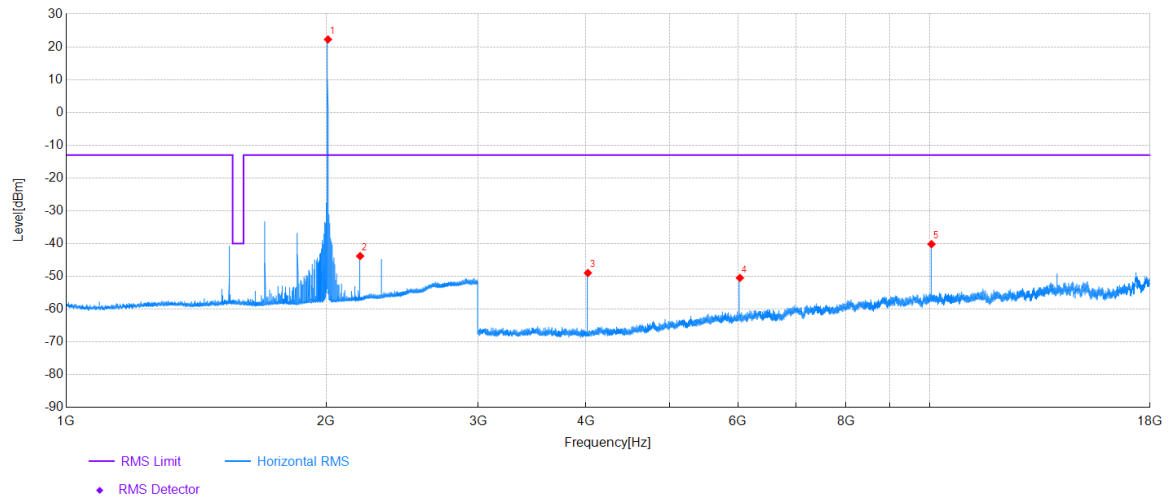
Test Graph

Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1091.60	47.52	-114.23	-66.71	-13.00	53.71	Vertical	PASS
2	1405.60	62.88	-114.33	-51.45	-13.00	38.45	Vertical	PASS
3	8994.40	37.51	-93.54	-56.03	-13.00	43.03	Vertical	PASS

Test Result for NTN

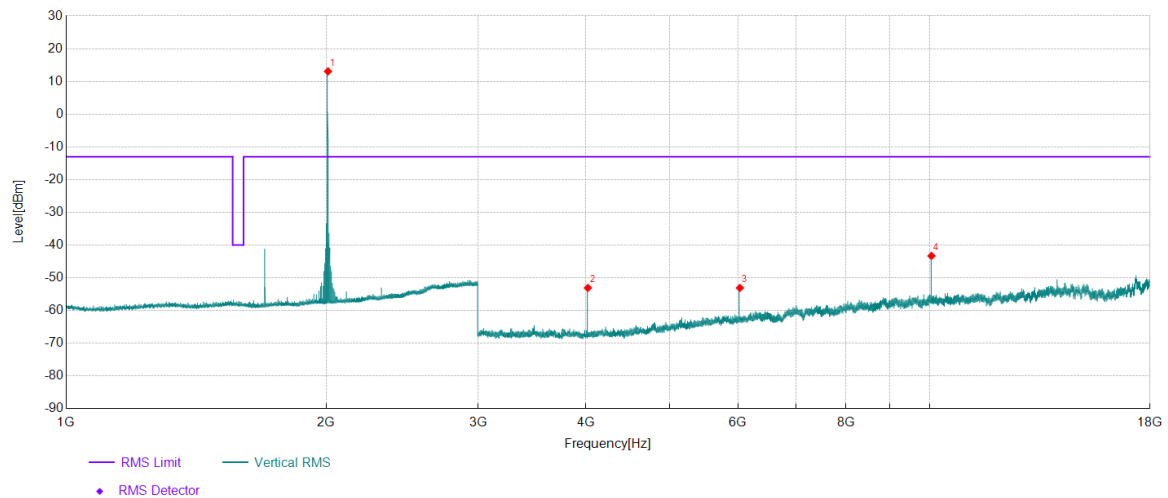
Project Information			
Mode:	NTN	Band:	Band 23
Bandwidth:	/	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X 3.75kHz		

Test Graph



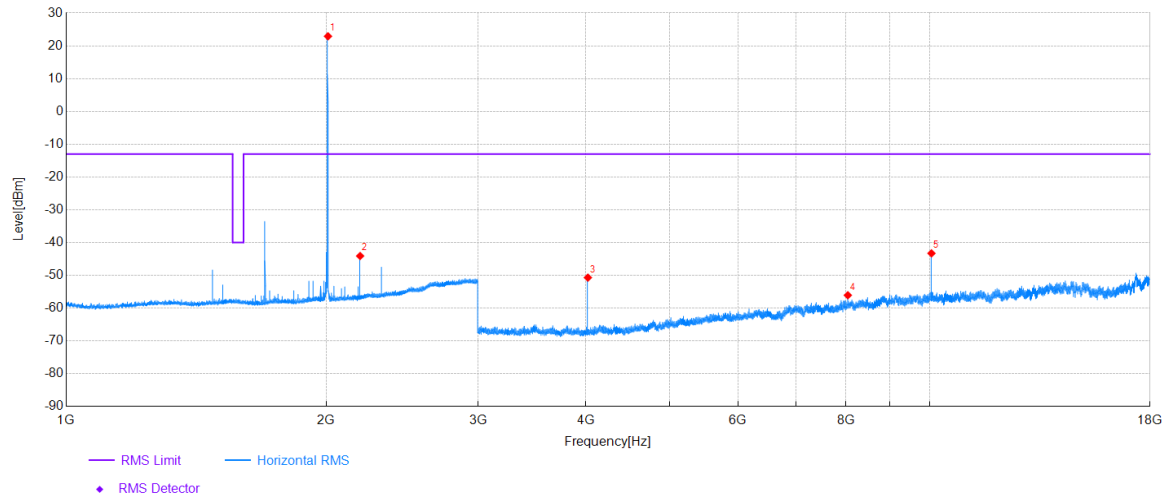
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	2010.00	117.23	-94.98	22.25	-	-	Horizontal	NA
2	2190.00	50.74	-94.56	-43.82	-	-	Horizontal	NA
3	4020.00	57.41	-106.38	-48.97	-13.00	35.97	Horizontal	PASS
4	6029.50	49.47	-99.95	-50.48	-13.00	37.48	Horizontal	PASS
5	10049.50	51.33	-91.51	-40.18	-13.00	27.18	Horizontal	PASS

Project Information			
Mode:	NTN	Band:	Band 23
Bandwidth:	/	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X 3.75kHz		

Test Graph

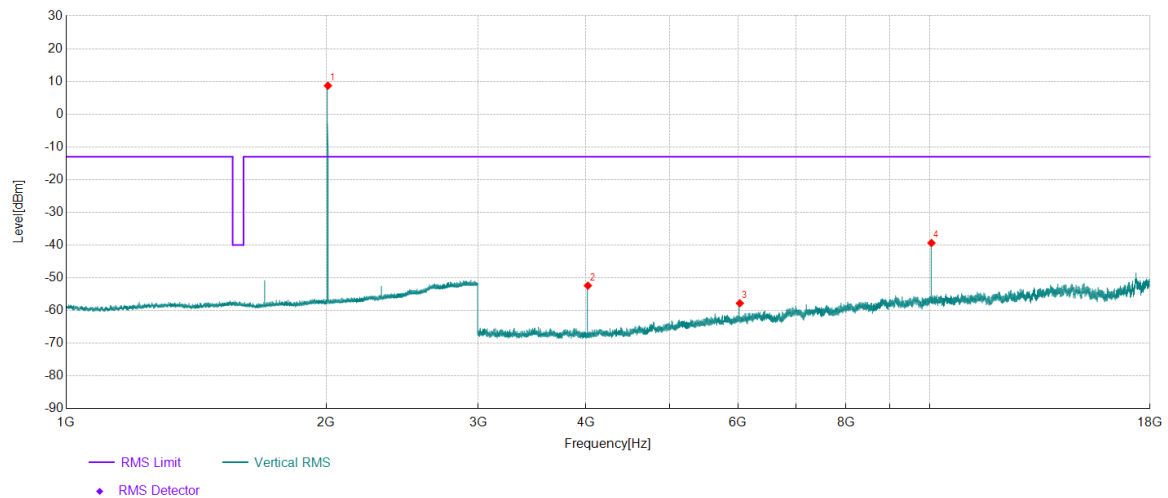
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	2010.00	108.06	-94.98	13.08	-	-	Vertical	NA
2	4020.00	53.29	-106.38	-53.09	-13.00	40.09	Vertical	PASS
3	6030.00	46.87	-99.96	-53.09	-13.00	40.09	Vertical	PASS
4	10049.50	48.20	-91.51	-43.31	-13.00	30.31	Vertical	PASS

Project Information			
Mode:	NTN	Band:	Band 23
Bandwidth:	/	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X 15kHz		

Test Graph

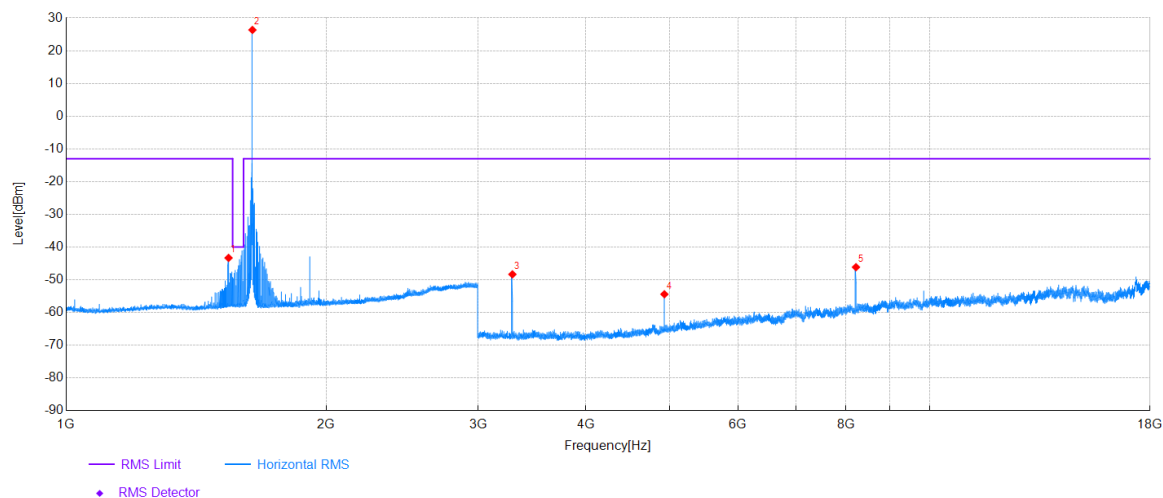
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	2010.00	117.89	-94.98	22.91	-	-	Horizontal	NA
2	2190.00	50.46	-94.56	-44.10	-	-	Horizontal	NA
3	4020.00	55.69	-106.38	-50.69	-13.00	37.69	Horizontal	PASS
4	8039.50	39.26	-95.33	-56.07	-13.00	43.07	Horizontal	PASS
5	10049.50	48.22	-91.51	-43.29	-13.00	30.29	Horizontal	PASS

Project Information			
Mode:	NTN	Band:	Band 23
Bandwidth:	/	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X 15kHz		

Test Graph

Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	2009.80	103.67	-94.98	8.69	-	-	Vertical	NA
2	4020.00	53.98	-106.38	-52.40	-13.00	39.40	Vertical	PASS
3	6029.50	42.16	-99.95	-57.79	-13.00	44.79	Vertical	PASS
4	10049.50	52.14	-91.51	-39.37	-13.00	26.37	Vertical	PASS

Project Information			
Mode:	NTN	Band:	Band 255
Bandwidth:	/	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X 3.75kHz		

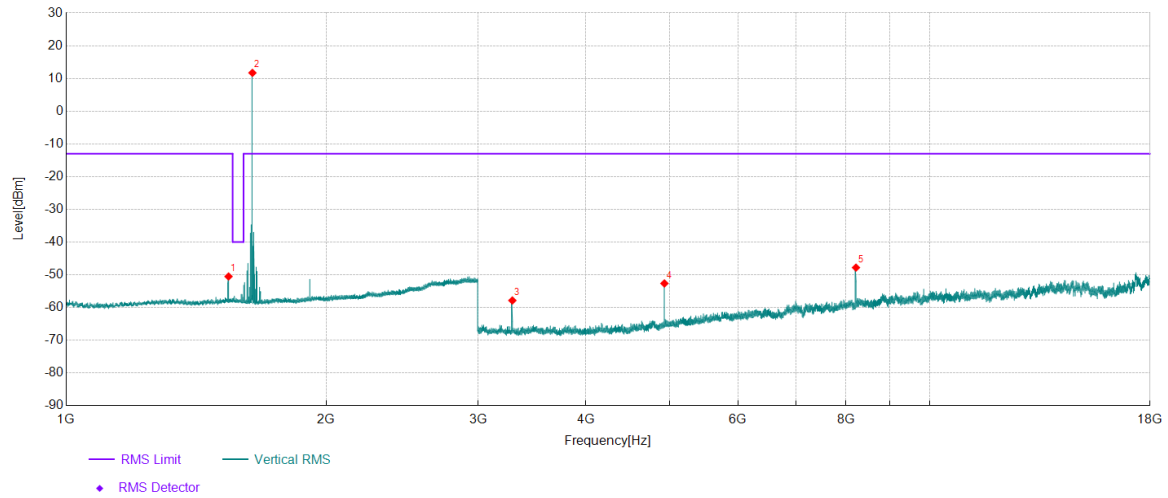
Test Graph

Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1542.00	51.44	-94.75	-43.31	-	-	Horizontal	NA
2	1643.40	121.61	-95.27	26.34	-	-	Horizontal	NA
3	3287.00	59.57	-107.91	-48.34	-13.00	35.34	Horizontal	PASS
4	4930.00	48.55	-102.97	-54.42	-13.00	41.42	Horizontal	PASS
5	8217.00	48.92	-95.07	-46.15	-13.00	33.15	Horizontal	PASS

Project Information

Mode:	NTN	Band:	Band 255
Bandwidth:	/	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X 3.75kHz		

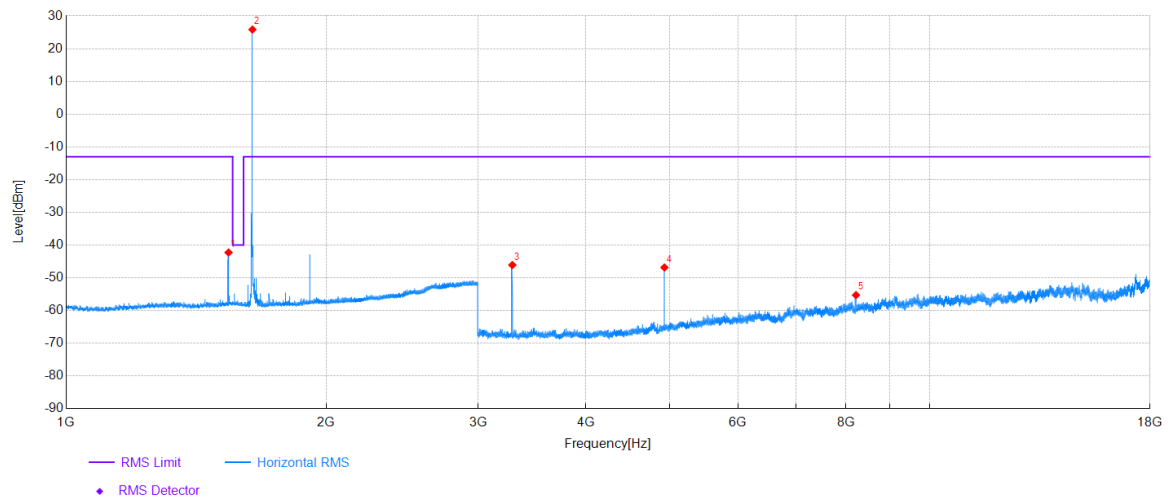
Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1542.00	44.23	-94.75	-50.52	-	-	Vertical	NA
2	1643.40	106.97	-95.27	11.70	-	-	Vertical	NA
3	3286.50	50.06	-107.91	-57.85	-13.00	44.85	Vertical	PASS
4	4930.00	50.32	-102.97	-52.65	-13.00	39.65	Vertical	PASS
5	8217.00	47.26	-95.07	-47.81	-13.00	34.81	Vertical	PASS

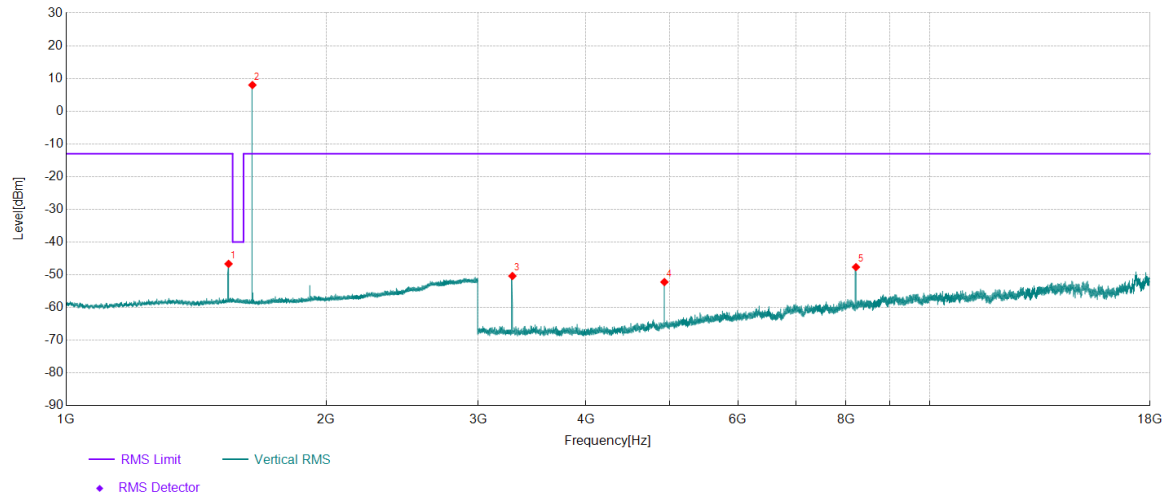
Project Information			
Mode:	NTN	Band:	Band 255
Bandwidth:	/	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X 15kHz		

Test Graph

Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1542.00	52.47	-94.75	-42.28	-	-	Horizontal	NA
2	1643.40	121.11	-95.27	25.84	-	-	Horizontal	NA
3	3287.00	61.81	-107.91	-46.10	-13.00	33.10	Horizontal	PASS
4	4930.50	56.12	-102.97	-46.85	-13.00	33.85	Horizontal	PASS
5	8217.00	39.78	-95.07	-55.29	-13.00	42.29	Horizontal	PASS

Project Information			
Mode:	NTN	Band:	Band 255
Bandwidth:	/	Channel:	Mid
IMEI:	862063070013656	Engineer:	申状
Remark:	Polarity: X 15kHz		

Test Graph



Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	1542.00	48.08	-94.75	-46.67	-	-	Vertical	NA
2	1643.40	103.25	-95.27	7.98	-	-	Vertical	NA
3	3287.00	57.54	-107.91	-50.37	-13.00	37.37	Vertical	PASS
4	4930.50	50.75	-102.97	-52.22	-13.00	39.22	Vertical	PASS
5	8217.00	47.41	-95.07	-47.66	-13.00	34.66	Vertical	PASS

~The End~