TEST REPORT

Test item description:	Smartphone
FCC ID:	2BMSD-C25
Trademark(s):	N/A
Model/Type reference:	C25 Ultra, C24 Ultra, S25 Ultra, A16 Pro Max, A17Pro Max, S26 Ultra, C26 Ultra, A56, A57
Applicant's name:	Shenzhen Baitai Network Technology Co., Ltd
Address:	Room 1901, 19th Floor, City Shanhaipingji Center, No. 51 Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen
Manufacturer:	Shenzhen Baitai Network Technology Co., Ltd
Address:	Room 1901, 19th Floor, City Shanhaipingji Center, No. 51 Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen
Prepared By:	Shenzhen CTB Testing Technology Co., Ltd.
Address:	1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	Nov. 27, 2025
Sample tested Date:	Nov. 27, 2025 to Dec. 15, 2025
Issue Date:	Dec. 15, 2025
Report No.:	CTB25112705603RF04
Test Standards	FCC Part 2, 22, 24E, 27
Test Results	PASS
Remark:	This is LTE radio test report.

Compiled by:	Reviewed by:	Approved by:
Kai Chen	Martin Feng	Bin Mei / Director

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

TABLE OF CONTENT

Test Report Declaration Page

1. VERSION 3
2. TEST SUMMARY 4
3. MEASUREMENT UNCERTAINTY 5
4. PRODUCT INFORMATION AND TEST SETUP 6
4.1 Product Information 6
4.2 Test Setup Configuration 7
4.3 Support Equipment 7
4.4 Test Mode 7
4.5 Test Environment 10
5. TEST FACILITY AND TEST INSTRUMENT USED 11
5.1 Test Facility 11
5.2 Test Instrument Used 11
6. RF EXPOSURE 13
6.1 Standard Applicable 13
6.2 Test Result 13
7. RF OUTPUT POWER 14
7.1 Standard Applicable 14
7.2 Test Procedure 14
7.3 Summary of Test Results/Plots 14
8. PEAK-TO-AVERAGE RATIO (PAR) OF TRANSMITTER 15
8.1 Standard Applicable 15
8.2 Test Procedure 15
8.3 Summary of Test Results 15
9. EMISSION BANDWIDTH 16
9.1 Standard Applicable 16
9.2 Test Procedure 16
9.3 Summary of Test Results/Plots 16
10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL 17
10.1 Standard Applicable 17
10.2 Test Procedure 17
10.3 Summary of Test Results/Plots 18
11. SPURIOUS RADIATED EMISSIONS 19
11.1 Standard Applicable 19
11.2 Test Procedure 20
11.3 Summary of Test Results/Plots 20
12. FREQUENCY STABILITY 48
12.1 Standard Applicable 48
12.2 Test Procedure 48
12.3 Summary of Test Results/Plots 48

(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB25112705603RF04	Dec. 15, 2025	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Test Item	Test Requirement	Test method	Result
Conducted output power	Part 2.1046(a)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Effective Radiated Power of Transmitter(EIRP)	Part 22.913(a)(5)/Part27.50(h)(2)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
peak-to-average ratio	Part 27.50(d)	KDB 971168 D01v03r01	PASS
99% & 26dB Occupied Bandwidth	Part 2.1049(h)	KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	Part 2.1051/ Part 22.917(a)/Part 27.53(m) (4)	KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 22.917(a)/Part 27.53(m) (4)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	Part 2.1053/ Part 22.917(a)/Part 27.53(m) (4)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Frequency stability	Part 2.1055/Part 27.54	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS

.

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Item	Uncertainty
Occupancy bandwidth	54.3kHz
Conducted output power Above 1G	0.9dB
Conducted output power below 1G	0.9dB
Power Spectral Density , Conduction	0.9dB
Conduction spurious emissions	2.0dB
Out of band emission	2.0dB
3m camber Radiated spurious emission(30MHz-1GHz)	4.6dB
3m chamber Radiated spurious emission(1GHz-18GHz)	5.1dB
3m chamber Radiated spurious emission(18GHz-40GHz)	3.4dB
Receiver Reference Sensitivity level	1.9dB
humidity uncertainty	5.5%
Temperature uncertainty	0.63℃
frequency	1×10-7

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model/Type reference:	C25 Ultra, C24 Ultra, S25 Ultra, A16 Pro Max, A17Pro Max, S26 Ultra, C26 Ultra, A56, A57
Model Description:	All the model are the same circuit and RF module, only the model names are different. Test sample model: C25 Ultra
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	FDD-LTE BAND 2: 1850-1910MHz FDD-LTE BAND 4: 1710-1755MHz FDD-LTE BAND 5: 824-849MHz FDD-LTE BAND 7: 2500-2570MHz FDD-LTE BAND 12: 699-716MHz TDD-LTE BAND 38: 2570-2620MHz TDD-LTE BAND 40a: 2305-2315MHz TDD-LTE BAND 40b: 2350-2360MHz TDD-LTE BAND 41: 2535-2675 MHz
Max. RF output power:	FDD-LTE BAND 2: 22.98dBm FDD-LTE BAND 4: 22.98dBm FDD-LTE BAND 5: 23.51dBm FDD-LTE BAND 7: 23.17dBm FDD-LTE BAND 12: 23.36dBm TDD-LTE BAND 38: 22.36dBm TDD-LTE BAND 40a: 22.15dBm TDD-LTE BAND 40b: 22.02dBm TDD-LTE BAND 41: 22.87dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	FPC antenna
Antenna Gain:	FDD-LTE BAND 2: 0.6dBi FDD-LTE BAND 4: 0.7dBi FDD-LTE BAND 5: 0.2dBi FDD-LTE BAND 7: 0.5dBi FDD-LTE BAND 12: -0.1dBi TDD-LTE BAND 38: 0.5dBi TDD-LTE BAND 40a: 0.6dBi TDD-LTE BAND 40b: 0.6dBi TDD-LTE BAND 41: 0.5dBi
Ratings:	Input: 5V⎓2A DC 3.8Vby battery

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1.	Adapter	JIYIN	JY-05100C	/	AE

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Test Mode

Test Mode List		
Test Mode	Description	Remark
TM1	FDD-LTE BAND 2	Low, Middle, High Channels
TM2	FDD-LTE BAND 4	Low, Middle, High Channels
TM3	FDD-LTE BAND 5	Low, Middle, High Channels
TM4	FDD-LTE BAND 7	Low, Middle, High Channels
TM5	TDD-LTE BAND 12	Low, Middle, High Channels
TM6	TDD-LTE BAND 38	Low, Middle, High Channels
TM7	TDD-LTE BAND 40a	Low, Middle, High Channels
TM8	TDD-LTE BAND 40b	Low, Middle, High Channels
TM9	TDD-LTE BAND 41	Low, Middle, High Channels

LTE BAND 2

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 2	Low Range	1.4	18607	1850.7
		3	18615	1851.5
		5	18625	1852.5
		10	18650	1855
		15	18675	1857.5
		20	18700	1860
	Mid Range	1.4/3/5/10/15/20	18900	1880
	High Range	1.4	19193	1909.3
		3	19185	1908.5
		5	19175	1907.5
		10	19150	1905
		15	19125	1902.5
		20	19100	1900

LTE BAND 4

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 4	Low Range	1.4	19957	1710.7
		3	19965	1711.5
		5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
	Mid Range	1.4/3/5/10/15/20	20175	1732.5
	High Range	1.4	20393	1754.3
		3	20385	1753.5
		5	20375	1752.5
		10	20350	1750
		15	20325	1747.5
		20	20300	1745

LTE BAND 5

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 5	Low Range	1.4	20407	824.7
		3	20415	825.5
		5	20425	826.5
		10	20450	829
	Mid Range	1.4/3/5/10	20525	836.5
	High Range	1.4	20643	848.3
		3	20635	847.5
		5	20625	846.5
		10	20600	844

LTE BAND 7

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 7	Low Range	5	20775	2502.5
		10	20800	2505
		15	20825	2507.5
		20	20850	2510
	Mid Range	5/10/15/20	21100	2535
	High Range	5	21425	2567.5
		10	21400	2565
		15	21375	2562.5
		20	21350	2560

LTE BAND 12

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 12	Low Range	1.4	23017	699.7
		3	23025	700.5
		5	23035	701.5
		10	23060	704
	Mid Range	1.4/3/5/10	23095	707.5
	High Range	1.4	23173	715.3
		3	23165	714.5
		5	23155	713.5
		10	23130	711

LTE BAND 38

Test Mode	Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)
TDD band 38 TX/RX 2570– 2620 MHz	Low Range	5	37775	2572.5
		10	37800	2575
		15	37825	2577.5
		20	37850	2580
	Mid Range	5/10/15/20	38000	2595
	High Range	5	38225	2617.5
		10	38200	2615
		15	38175	2612.5
		20	38150	2610

LTE BAND 40 a

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 40a	Low Range	5	38725	2307.5
	Mid Range	5/10	38750	2310
	High Range	5	38775	2312.5

LTE BAND 40 b

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 40b	Low Range	5	39175	2352.5
	Mid Range	5/10	39200	2355
	High Range	5	39200	2357.5

LTE BAND 41

Test Mode	Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency of Uplink(MHz)
TDD band 41 TX/RX 2495– 2690 MHz	Low Range	5	39675	2498.5
		10	39700	2501
		15	39725	2503.5
		20	39750	2506
	Mid Range	5/10/15/20	40620	2593
	High Range	5	41656	2687.5
		10	41540	2685
		15	41515	2682.5
		20	41490	2680

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	3.8V
Normal Temperature(℃)	23
Low Temperature(℃)	0
High Temperature(℃)	40

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at 1&2F., Building A, No. 26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: CN1276

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated Date	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2025/5/23	2026/5/22
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2025/5/23	2026/5/22
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2025/5/23	2026/5/22
4	Communication test set	R&S	CMW500	108058	V3.5.80	2025/5/23	2026/5/22
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/5/23	2026/5/22
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2025/5/22	2026/5/21
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2025/5/22	2026/5/21
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 （E1962B ）	2025/5/22	2026/5/21
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	/	2025/6/18	2026/6/17
10	5 GHz Filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	/	2025/6/18	2026/6/17
11	Filter	Xingbo	XBLBQ-DZA120	190821-1-1	/	2025/5/24	2026/5/23
12	BT&WI-FI Automatic test software	Micowave	MTS8310	Ver. 2.0.0.0	/	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2025/10/20	2026/10/19
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2025/5/22	2026/5/21
15	234G Automatic test software	Micowave	MTS8200	Ver. 2.0.0.0	/	/	/
16	966 chamber	C.R.T.	966	/	/	2024/6/23	2027/6/22
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 （104489/003）	2025/5/23	2026/5/22
18	Amplifier	HP	8447E	2945A02747	/	2025/5/23	2026/5/22

19	Amplifier	Agilent	8449B	3008A01838	/	2025/6/2	2026/6/1
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2025/6/29	2026/6/28
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2025/6/1	2026/5/31
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/2	2026/6/1
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2025/6/2	2026/6/1
26	Amplifier	AEROFLEX	Aeroflex	097	/	2025/6/2	2026/6/1
27	Power Metter	KEYSIGHT	N1912AP	N/A	A.05.00	2025/6/2	2026/6/1

6. RF EXPOSURE

6.1 Standard Applicable

According to §1.1307 and§2.1091,§2.1093, the portable transmitter must comply the RF exposure requirements.

6.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure report.

7. RF OUTPUT POWER

7.1 Standard Applicable

According to §22.913(a)(2), the ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

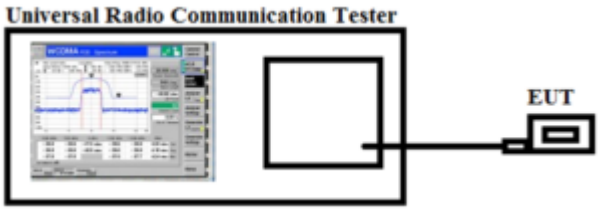
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(d)(4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

According to §27.50(c)(10), portable stations (hand-held devices) in the 698-746 MHz band are limited to 3 watts ERP.

7.2 Test Procedure

Conducted output power test method:



Radiated power test method:
1. The setup of EUT is according with per ANSI/TIA Standard 603E and ANSI C63.26 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

7.3 Summary of Test Results/Plots

Please refer to Appendix 1: Conducted output power
Test result: Pass

8. PEAK-TO-AVERAGE RATIO (PAR) OF TRANSMITTER

8.1 Standard Applicable

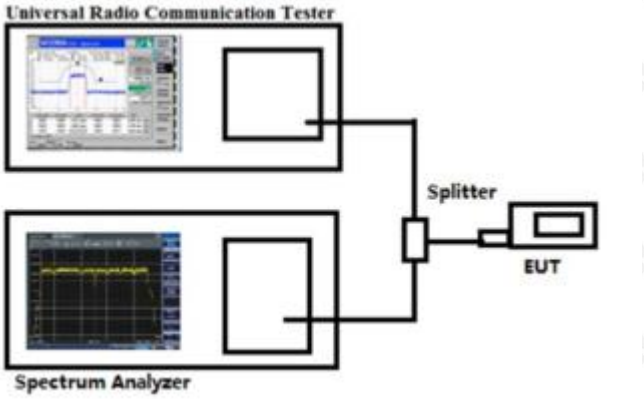
According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

According to §27.50(B), the peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal
corresponding to the highest PAPR expected during periods of continuous transmission.

8.2 Test Procedure

According with KDB 971168
1. The signal analyzer' s CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal " RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the " on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Configuration for the emission bandwidth testing:



8.3 Summary of Test Results

Please refer to Appendix 3: Peak-to-Average Ratio

Test result: Pass

9. EMISSION BANDWIDTH

9.1 Standard Applicable

According to §22.917(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

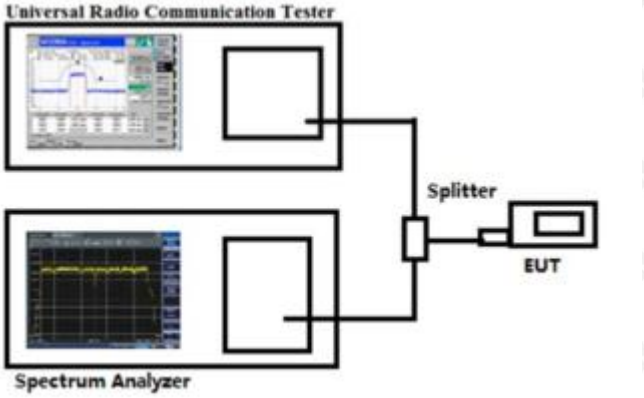
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

According to §27.53, the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

9.2 Test Procedure

According to §22.917(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Test Configuration for the emission bandwidth testing:



9.3 Summary of Test Results/Plots

Please refer to Appendix 4: 26dB Bandwidth and Occupied Bandwidth
Test result: Pass

10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

10.1 Standard Applicable

According to §22.917(a), the power of any emissions 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.

According to §24.238(a), 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.

According to §27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 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;

(2) 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;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

According to §27.53 (f) 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.

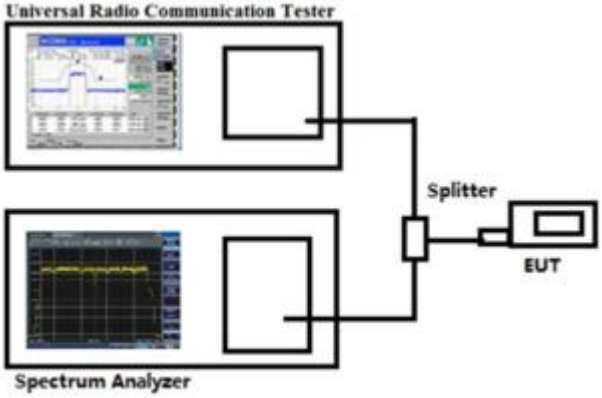
According to §27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB.

According to §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.

10.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100kHz and 1MHz for the scan frequency from 30MHz to 1GHz and the scan frequency from 1GHz to up to 10 th harmonic.

Test Configuration for the out of band emissions testing:



10.3 Summary of Test Results/Plots

Please refer to Appendix 5 & 6: Band Edge & Conducted Spurious Emission
Test result: Pass

11. SPURIOUS RADIATED EMISSIONS

11.1 Standard Applicable

According to §22.917(a), the power of any emissions 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.

According to §24.238(a), 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.

According to §27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 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;

(2) 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;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

According to §27.53 (f) 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.

According to §27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

According to §27.53(g) the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB.

11.2 Test Procedure

1. The setup of EUT is according with per ANSI/TIA-603-E and ANSI C63.4-2014 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.
Spurious attenuation limit in dB =43+10 Log 10 (power out in Watts)

11.3 Summary of Test Results/Plots

Note: 1. this EUT was tested in 3 orthogonal positions and the worst case position data was reported.
2. All test modes (different bandwidth and different modulation) are performed, but only the worst case is recorded in this report.

Test Data:
QPSK

Band 2 18607 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1271.07	155	282	-57.51	-13	-44.51	Pass	H
1646.85	150	302	-48.50	-13	-35.50	Pass	H
3911.13	156	299	-45.73	-13	-32.73	Pass	H
5814.04	146	131	-43.79	-13	-30.79	Pass	H
6451.49	157	345	-46.08	-13	-33.08	Pass	H
8041.96	146	93	-43.27	-13	-30.27	Pass	H
1180.22	145	203	-52.34	-13	-39.34	Pass	V
1370.38	154	48	-58.25	-13	-45.25	Pass	V
3500.45	144	334	-48.91	-13	-35.91	Pass	V
3896.34	158	213	-52.35	-13	-39.35	Pass	V
5849.01	158	106	-46.42	-13	-33.42	Pass	V
6618.63	151	262	-44.76	-13	-31.76	Pass	V
Band 2 18900 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1309.34	150	88	-58.97	-13	-45.97	Pass	H
1685.41	146	212	-53.73	-13	-40.73	Pass	H
3856.63	150	153	-48.55	-13	-35.55	Pass	H
5786.78	146	312	-45.20	-13	-32.20	Pass	H
6547.67	149	242	-49.52	-13	-36.52	Pass	H
8111.71	151	110	-47.93	-13	-34.93	Pass	H
1256.89	149	243	-52.79	-13	-39.79	Pass	V
1429.80	148	283	-61.12	-13	-48.12	Pass	V
3550.33	147	234	-52.14	-13	-39.14	Pass	V
3906.34	148	138	-48.11	-13	-35.11	Pass	V
5887.75	150	261	-47.77	-13	-34.77	Pass	V
6423.71	150	187	-50.90	-13	-37.90	Pass	V

Band 2 19193 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1283.45	148	56	-58.29	-13	-45.29	Pass	H
1631.81	149	304	-49.63	-13	-36.63	Pass	H
3887.99	150	86	-43.83	-13	-30.83	Pass	H
5873.78	152	29	-40.54	-13	-27.54	Pass	H
6597.80	152	248	-42.18	-13	-29.18	Pass	H
7911.90	146	107	-42.46	-13	-29.46	Pass	H
1332.12	149	326	-55.58	-13	-42.58	Pass	V
1350.44	146	144	-59.78	-13	-46.78	Pass	V
3565.73	146	329	-54.54	-13	-41.54	Pass	V
3880.88	146	325	-47.65	-13	-34.65	Pass	V
5876.76	154	337	-41.72	-13	-28.72	Pass	V
6567.32	150	51	-44.79	-13	-31.79	Pass	V

16QAM

Band 2 18607 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1295.30	149	263	-59.54	-13	-46.54	Pass	H
1664.96	152	141	-48.97	-13	-35.97	Pass	H
3837.83	150	329	-47.28	-13	-34.28	Pass	H
6004.21	147	41	-46.26	-13	-33.26	Pass	H
6476.71	153	346	-46.83	-13	-33.83	Pass	H
7992.99	152	55	-40.76	-13	-27.76	Pass	H
1105.32	150	36	-50.29	-13	-37.29	Pass	V
1521.05	146	0	-56.91	-13	-43.91	Pass	V
3502.49	149	256	-52.04	-13	-39.04	Pass	V
3912.85	149	8	-52.53	-13	-39.53	Pass	V
5829.96	154	82	-43.67	-13	-30.67	Pass	V
6677.69	151	325	-46.60	-13	-33.60	Pass	V

Band 2 18900 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1299.82	146	348	-54.78	-13	-41.45	Pass	H
1667.90	148	345	-53.29	-13	-37.85	Pass	H
3810.57	153	267	-48.80	-13	-35.2	Pass	H
5976.63	150	146	-45.23	-13	-30.39	Pass	H
6572.97	146	118	-45.48	-13	-32.24	Pass	H
8155.08	154	244	-45.63	-13	-30.22	Pass	H
1172.26	148	116	-57.74	-13	-44.9	Pass	V
1336.05	148	16	-54.06	-13	-43.63	Pass	V
3481.02	149	77	-49.96	-13	-35.94	Pass	V
3884.07	150	54	-45.69	-13	-36.01	Pass	V
5886.79	150	38	-44.91	-13	-33.75	Pass	V
6458.55	150	189	-42.50	-13	-32.41	Pass	V
Band 2 19193 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1322.03	147	55	-53.30	-13	-40.30	Pass	H
1793.60	154	202	-51.95	-13	-38.95	Pass	H
3856.93	150	341	-43.83	-13	-30.83	Pass	H
5855.94	153	69	-39.74	-13	-26.74	Pass	H
6478.83	146	125	-37.76	-13	-24.76	Pass	H
8048.75	151	123	-45.60	-13	-32.60	Pass	H
1278.67	147	300	-57.90	-13	-44.90	Pass	V
1381.90	151	178	-62.12	-13	-49.12	Pass	V
3594.21	150	243	-46.42	-13	-33.42	Pass	V
3733.54	151	335	-48.03	-13	-35.03	Pass	V
5846.69	154	190	-47.17	-13	-34.17	Pass	V
6512.56	150	235	-44.21	-13	-31.21	Pass	V

Note:

1) Scan from 9kHz to 40GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

2) Tested with all kind of bandwidth,RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

QPSK

Band 4 19957 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1329.33	151	109	-55.24	-13	-42.24	Pass	H
1619.95	153	269	-48.56	-13	-35.56	Pass	H
3879.00	153	356	-52.72	-13	-39.72	Pass	H
5929.44	151	283	-43.19	-13	-30.19	Pass	H
6651.33	152	182	-43.84	-13	-30.84	Pass	H
7903.71	146	24	-39.09	-13	-26.09	Pass	H
1156.35	150	50	-54.99	-13	-41.99	Pass	V
1424.47	153	105	-55.08	-13	-42.08	Pass	V
3661.54	146	249	-53.01	-13	-40.01	Pass	V
3860.83	153	136	-47.86	-13	-34.86	Pass	V
5869.09	151	183	-45.62	-13	-32.62	Pass	V
6578.47	154	334	-48.57	-13	-35.57	Pass	V
Band 4 20175 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1374.38	147	118	-50.71	-13	-37.71	Pass	H
1815.10	148	309	-49.52	-13	-36.52	Pass	H
3856.44	149	352	-44.91	-13	-31.91	Pass	H
5944.94	150	191	-44.66	-13	-31.66	Pass	H
6437.43	153	319	-39.99	-13	-26.99	Pass	H
8067.93	155	23	-42.59	-13	-29.59	Pass	H
1142.21	154	38	-57.53	-13	-44.53	Pass	V
1357.83	149	325	-57.62	-13	-44.62	Pass	V
3620.58	148	23	-45.34	-13	-32.34	Pass	V
3899.27	150	353	-50.17	-13	-37.17	Pass	V
5743.46	147	218	-46.32	-13	-33.32	Pass	V
6587.84	149	69	-41.89	-13	-28.89	Pass	V

Band 4 20393 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1259.98	148	344	-52.38	-13	-39.38	Pass	H
1609.47	149	27	-50.76	-13	-37.76	Pass	H
3954.93	148	110	-47.01	-13	-34.01	Pass	H
5911.26	152	219	-43.53	-13	-30.53	Pass	H
6581.77	151	187	-40.78	-13	-27.78	Pass	H
8037.95	154	346	-42.10	-13	-29.10	Pass	H
1241.07	153	332	-55.68	-13	-42.68	Pass	V
1385.39	145	291	-57.37	-13	-44.37	Pass	V
3630.60	148	282	-51.97	-13	-38.97	Pass	V
3864.32	155	320	-49.53	-13	-36.53	Pass	V
5811.57	151	23	-49.95	-13	-36.95	Pass	V
6585.42	147	73	-50.36	-13	-37.36	Pass	V

16QAM

Band 4 19957 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1339.40	153	96	-54.79	-13	-41.79	Pass	H
1815.18	150	67	-53.77	-13	-40.77	Pass	H
3854.54	145	29	-49.69	-13	-36.69	Pass	H
5937.18	153	336	-43.18	-13	-30.18	Pass	H
6412.85	152	42	-49.14	-13	-36.14	Pass	H
8091.02	147	267	-47.97	-13	-34.97	Pass	H
1179.45	153	243	-60.02	-13	-47.02	Pass	V
1342.36	153	287	-57.54	-13	-44.54	Pass	V
3543.54	152	187	-47.00	-13	-34.00	Pass	V
3856.35	155	13	-47.69	-13	-34.69	Pass	V
5724.35	147	242	-42.46	-13	-29.46	Pass	V
6637.60	153	326	-45.92	-13	-32.92	Pass	V

Band 4 20175 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1353.35	151	130	-57.72	-13	-44.72	Pass	H
1724.93	152	177	-54.09	-13	-41.09	Pass	H
3825.19	154	201	-46.38	-13	-33.38	Pass	H
5792.72	146	26	-46.15	-13	-33.15	Pass	H
6445.60	148	328	-51.90	-13	-38.90	Pass	H
8095.43	148	19	-49.04	-13	-36.04	Pass	H
1232.15	149	155	-50.57	-13	-37.57	Pass	V
1397.39	151	42	-63.50	-13	-50.50	Pass	V
3642.51	145	30	-52.80	-13	-39.80	Pass	V
3900.69	155	344	-53.82	-13	-40.82	Pass	V
5915.90	154	2	-51.27	-13	-38.27	Pass	V
6429.91	146	274	-47.19	-13	-34.19	Pass	V
Band 4 20393 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1241.68	148	81	-56.38	-13	-43.38	Pass	H
1659.76	152	335	-51.94	-13	-38.94	Pass	H
3801.26	147	194	-44.47	-13	-31.47	Pass	H
5857.89	150	119	-43.59	-13	-30.59	Pass	H
6463.24	155	250	-39.55	-13	-26.55	Pass	H
7986.47	149	112	-47.36	-13	-34.36	Pass	H
1178.97	153	133	-53.29	-13	-40.29	Pass	V
1307.36	148	299	-54.70	-13	-41.70	Pass	V
3520.28	151	188	-53.15	-13	-40.15	Pass	V
3808.10	148	277	-46.88	-13	-33.88	Pass	V
5722.22	149	190	-44.35	-13	-31.35	Pass	V
6554.61	152	36	-49.08	-13	-36.08	Pass	V

Note:

3) Scan from 9kHz to 40GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

4) Tested with all kind of bandwidth,RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

QPSK

Band 5 20407 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1416.40	157	146	-56.34	-13	-43.34	Pass	H
1609.12	141	97	-48.69	-13	-35.69	Pass	H
3990.20	150	162	-45.35	-13	-32.35	Pass	H
5806.28	157	321	-44.98	-13	-31.98	Pass	H
6533.38	152	191	-45.64	-13	-32.64	Pass	H
8167.42	147	188	-40.52	-13	-27.52	Pass	H
1260.05	142	87	-54.54	-13	-41.54	Pass	V
1473.56	159	228	-57.72	-13	-44.72	Pass	V
3443.90	160	278	-52.85	-13	-39.85	Pass	V
3735.12	156	164	-52.18	-13	-39.18	Pass	V
5759.30	146	310	-49.78	-13	-36.78	Pass	V
6579.10	151	151	-48.49	-13	-35.49	Pass	V
Band 5 20525 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1345.29	150	309	-54.99	-13	-41.99	Pass	H
1808.45	146	276	-50.35	-13	-37.35	Pass	H
3833.50	150	253	-47.52	-13	-34.52	Pass	H
5871.54	146	221	-45.97	-13	-32.97	Pass	H
6505.69	149	358	-51.27	-13	-38.27	Pass	H
8098.32	151	1	-48.68	-13	-35.68	Pass	H
1315.71	149	251	-52.46	-13	-39.46	Pass	V
1299.38	148	100	-58.48	-13	-45.48	Pass	V
3516.51	147	13	-52.26	-13	-39.26	Pass	V
3997.96	148	42	-49.73	-13	-36.73	Pass	V
5886.06	150	347	-46.35	-13	-33.35	Pass	V
6493.57	150	180	-48.82	-13	-35.82	Pass	V

Band 5 20643 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1403.32	150	275	-58.76	-13	-45.76	Pass	H
1611.16	145	305	-49.41	-13	-36.41	Pass	H
3873.00	150	228	-47.63	-13	-34.63	Pass	H
5856.13	151	339	-43.17	-13	-30.17	Pass	H
6564.13	147	70	-42.57	-13	-29.57	Pass	H
7954.46	147	352	-43.66	-13	-30.66	Pass	H
1353.61	149	120	-57.65	-13	-44.65	Pass	V
1310.21	155	251	-56.34	-13	-43.34	Pass	V
3497.63	148	82	-54.41	-13	-41.41	Pass	V
3990.27	147	62	-49.97	-13	-36.97	Pass	V
5849.65	152	82	-45.67	-13	-32.67	Pass	V
6636.55	150	320	-46.30	-13	-33.30	Pass	V

16QAM

Band 5 20407 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1286.30	153	63	-57.77	-13	-44.77	Pass	H
1675.66	151	312	-46.29	-13	-33.29	Pass	H
3866.79	145	330	-48.92	-13	-35.92	Pass	H
5915.82	153	300	-47.64	-13	-34.64	Pass	H
6608.42	154	155	-45.64	-13	-32.64	Pass	H
8014.73	155	44	-42.34	-13	-29.34	Pass	H
1161.35	152	74	-49.72	-13	-36.72	Pass	V
1424.92	148	51	-53.66	-13	-40.66	Pass	V
3558.03	148	172	-52.10	-13	-39.10	Pass	V
3966.95	154	87	-53.53	-13	-40.53	Pass	V
5813.20	145	281	-46.21	-13	-33.21	Pass	V
6649.74	152	59	-47.22	-13	-34.22	Pass	V

Band 5 20525 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1359.97	148	147	-52.66	-13	-41.45	Pass	H
1716.60	148	266	-51.24	-13	-37.85	Pass	H
3813.39	151	191	-47.38	-13	-35.2	Pass	H
5836.34	147	171	-45.73	-13	-30.39	Pass	H
6599.11	151	235	-42.76	-13	-32.24	Pass	H
8009.98	147	99	-41.08	-13	-30.22	Pass	H
1212.26	154	355	-57.45	-13	-44.9	Pass	V
1305.36	149	205	-55.68	-13	-43.63	Pass	V
3501.12	150	293	-46.47	-13	-35.94	Pass	V
3836.31	149	304	-46.03	-13	-36.01	Pass	V
5832.51	151	298	-45.78	-13	-33.75	Pass	V
6564.48	155	43	-42.27	-13	-32.41	Pass	V
Band 5 20643 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1374.65	153	157	-58.26	-13	-45.26	Pass	H
1712.45	149	172	-52.20	-13	-39.20	Pass	H
3902.23	147	167	-42.79	-13	-29.79	Pass	H
5824.74	147	265	-39.35	-13	-26.35	Pass	H
6472.00	153	113	-43.40	-13	-30.40	Pass	H
8045.46	148	66	-48.32	-13	-35.32	Pass	H
1200.64	151	339	-55.82	-13	-42.82	Pass	V
1405.60	154	156	-60.83	-13	-47.83	Pass	V
3571.70	146	184	-51.35	-13	-38.35	Pass	V
3851.12	154	310	-49.56	-13	-36.56	Pass	V
5715.30	146	324	-48.00	-13	-35.00	Pass	V
6495.54	150	214	-48.09	-13	-35.09	Pass	V

Note:

5) Scan from 9kHz to 40GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

6) Tested with all kind of bandwidth,RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

QPSK

Band 7 20775 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1387.34	147	189	-54.17	-13	-41.17	Pass	H
1694.08	146	15	-49.94	-13	-36.94	Pass	H
3885.28	153	315	-52.62	-13	-39.62	Pass	H
6023.67	150	26	-44.02	-13	-31.02	Pass	H
6649.31	147	77	-42.99	-13	-29.99	Pass	H
7909.02	151	107	-43.02	-13	-30.02	Pass	H
1245.68	148	333	-52.08	-13	-39.08	Pass	V
1493.72	151	259	-54.42	-13	-41.42	Pass	V
3595.67	152	359	-50.56	-13	-37.56	Pass	V
3945.15	149	318	-51.86	-13	-38.86	Pass	V
5875.26	148	357	-46.72	-13	-33.72	Pass	V
6538.03	147	58	-50.75	-13	-37.75	Pass	V

Band 7 21100 channel/BW 5 (middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1401.72	155	321	-51.37	-13	-38.37	Pass	H
1718.17	145	171	-51.67	-13	-38.67	Pass	H
3819.95	155	82	-45.37	-13	-32.37	Pass	H
5927.09	147	50	-41.19	-13	-28.19	Pass	H
6432.44	155	258	-45.90	-13	-32.90	Pass	H
8123.92	152	25	-45.03	-13	-32.03	Pass	H
1244.60	150	86	-60.45	-13	-47.45	Pass	V
1370.80	154	229	-58.07	-13	-45.07	Pass	V
3505.43	149	228	-49.07	-13	-36.07	Pass	V
3810.62	153	112	-46.09	-13	-33.09	Pass	V
5896.09	148	241	-43.18	-13	-30.18	Pass	V
6482.62	155	310	-43.76	-13	-30.76	Pass	V

Band 7 21425 channel/BW 5 (highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1374.09	151	266	-52.26	-13	-39.26	Pass	H
1698.12	153	270	-51.25	-13	-38.25	Pass	H
3843.63	150	287	-40.77	-13	-27.77	Pass	H
5947.98	149	137	-38.01	-13	-25.01	Pass	H
6518.82	147	37	-44.28	-13	-31.28	Pass	H
7989.95	153	197	-42.87	-13	-29.87	Pass	H
1260.51	154	104	-56.14	-13	-43.14	Pass	V
1528.07	147	333	-54.19	-13	-41.19	Pass	V
3570.28	153	121	-48.40	-13	-35.40	Pass	V
3918.13	153	65	-45.85	-13	-32.85	Pass	V
5863.66	147	278	-44.39	-13	-31.39	Pass	V
6588.77	147	241	-47.49	-13	-34.49	Pass	V

16QAM

Band 7 20775 channel/BW 5 (lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1399.88	147	359	-57.37	-13	-44.37	Pass	H
1737.92	151	324	-54.41	-13	-41.41	Pass	H
3873.46	148	154	-50.31	-13	-37.31	Pass	H
5931.77	153	31	-44.40	-13	-31.40	Pass	H
6577.98	154	133	-46.74	-13	-33.74	Pass	H
7936.54	152	209	-45.68	-13	-32.68	Pass	H
1242.35	154	101	-57.90	-13	-44.90	Pass	V
1457.44	154	177	-58.04	-13	-45.04	Pass	V
3621.44	148	220	-52.62	-13	-39.62	Pass	V
3926.25	150	40	-46.68	-13	-33.68	Pass	V
5717.38	146	184	-49.24	-13	-36.24	Pass	V
6504.00	152	247	-50.81	-13	-37.81	Pass	V

Band 7 21100 channel/BW 5 (middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1253.61	145	341	-57.28	-13	-44.28	Pass	H
1759.57	147	57	-54.60	-13	-41.60	Pass	H
3828.52	152	0	-48.43	-13	-35.43	Pass	H
5922.92	150	32	-42.33	-13	-29.33	Pass	H
6428.33	147	197	-49.51	-13	-36.51	Pass	H
7990.79	155	78	-42.25	-13	-29.25	Pass	H
1313.85	154	319	-52.54	-13	-39.54	Pass	V
1410.00	150	5	-65.08	-13	-52.08	Pass	V
3561.19	149	97	-51.72	-13	-38.72	Pass	V
3853.52	145	303	-51.68	-13	-38.68	Pass	V
5821.97	149	15	-50.33	-13	-37.33	Pass	V
6570.78	145	334	-45.13	-13	-32.13	Pass	V

Band 7 21425 channel/BW 5 (highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1242.37	148	91	-58.61	-13	-45.61	Pass	H
1576.17	152	132	-51.79	-13	-38.79	Pass	H
3829.15	153	33	-48.67	-13	-35.67	Pass	H
5892.85	151	17	-41.92	-13	-28.92	Pass	H
6500.44	151	60	-43.83	-13	-30.83	Pass	H
7966.42	154	59	-48.21	-13	-35.21	Pass	H
1220.13	150	243	-52.15	-13	-39.15	Pass	V
1336.54	146	68	-56.18	-13	-43.18	Pass	V
3454.05	152	233	-50.75	-13	-37.75	Pass	V
3874.78	152	39	-46.32	-13	-33.32	Pass	V
5789.76	151	64	-44.93	-13	-31.93	Pass	V
6541.23	149	183	-43.61	-13	-30.61	Pass	V

Note:

7) Scan from 9kHz to 40GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

8) Tested with all kind of bandwidth,RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

QPSK

Band 12 23017 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1263.15	150	24	-59.03	-13	-46.03	Pass	H
1726.88	146	119	-47.55	-13	-34.55	Pass	H
3962.94	155	98	-48.96	-13	-35.96	Pass	H
5837.64	159	338	-43.39	-13	-30.39	Pass	H
6522.60	146	171	-44.36	-13	-31.36	Pass	H
8167.93	158	351	-41.51	-13	-28.51	Pass	H
1163.99	151	339	-52.39	-13	-39.39	Pass	V
1457.09	143	280	-58.84	-13	-45.84	Pass	V
3574.61	146	64	-50.88	-13	-37.88	Pass	V
3882.96	155	170	-53.80	-13	-40.80	Pass	V
5722.87	150	339	-49.30	-13	-36.30	Pass	V
6486.96	150	307	-45.41	-13	-32.41	Pass	V
Band 12 23095 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1377.14	150	344	-58.82	-13	-45.82	Pass	H
1697.80	146	314	-49.85	-13	-36.85	Pass	H
3863.30	150	199	-53.35	-13	-40.35	Pass	H
5938.72	146	293	-46.26	-13	-33.26	Pass	H
6492.06	149	319	-47.03	-13	-34.03	Pass	H
7997.57	151	244	-48.94	-13	-35.94	Pass	H
1251.84	149	307	-55.00	-13	-42.00	Pass	V
1410.92	148	347	-58.92	-13	-45.92	Pass	V
3564.15	147	211	-54.16	-13	-41.16	Pass	V
3943.55	148	131	-50.94	-13	-37.94	Pass	V
5840.67	150	201	-46.60	-13	-33.60	Pass	V
6585.75	150	343	-49.11	-13	-36.11	Pass	V

Band 12 23173 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1243.38	146	156	-58.19	-13	-45.19	Pass	H
1686.51	152	230	-53.51	-13	-40.51	Pass	H
3823.53	146	109	-43.54	-13	-30.54	Pass	H
5940.80	155	178	-39.42	-13	-26.42	Pass	H
6577.62	153	92	-39.54	-13	-26.54	Pass	H
7989.71	149	285	-44.27	-13	-31.27	Pass	H
1182.77	148	319	-56.95	-13	-43.95	Pass	V
1485.24	149	233	-59.07	-13	-46.07	Pass	V
3436.88	153	260	-55.74	-13	-42.74	Pass	V
3845.62	146	354	-49.25	-13	-36.25	Pass	V
5753.85	154	337	-44.84	-13	-31.84	Pass	V
6550.40	149	121	-47.62	-13	-34.62	Pass	V

16QAM

Band 12 23017 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1318.52	154	80	-56.22	-13	-43.22	Pass	H
1681.40	152	93	-48.97	-13	-35.97	Pass	H
3811.57	148	179	-48.74	-13	-35.74	Pass	H
5951.99	150	78	-42.16	-13	-29.16	Pass	H
6540.91	151	11	-43.45	-13	-30.45	Pass	H
8064.63	155	303	-41.36	-13	-28.36	Pass	H
1149.80	148	212	-49.91	-13	-36.91	Pass	V
1449.93	151	170	-54.34	-13	-41.34	Pass	V
3601.18	148	285	-52.39	-13	-39.39	Pass	V
3975.73	155	28	-53.90	-13	-40.90	Pass	V
5919.43	153	98	-43.29	-13	-30.29	Pass	V
6580.62	153	330	-47.21	-13	-34.21	Pass	V

Band 12 23095 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1415.37	151	201	-54.30	-13	-41.45	Pass	H
1674.99	152	232	-51.17	-13	-37.85	Pass	H
3937.62	154	136	-45.23	-13	-35.2	Pass	H
6016.99	147	19	-43.00	-13	-30.39	Pass	H
6510.80	148	181	-47.87	-13	-32.24	Pass	H
8104.09	146	336	-45.66	-13	-30.22	Pass	H
1163.69	154	300	-57.15	-13	-44.9	Pass	V
1299.07	148	35	-55.26	-13	-43.63	Pass	V
3620.17	149	168	-49.73	-13	-35.94	Pass	V
3867.62	145	108	-45.06	-13	-36.01	Pass	V
5862.37	149	117	-43.33	-13	-33.75	Pass	V
6508.05	150	216	-45.76	-13	-32.41	Pass	V
Band 12 23173 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1381.39	154	314	-52.62	-13	-39.62	Pass	H
1620.62	147	87	-48.39	-13	-35.39	Pass	H
3879.91	148	310	-45.59	-13	-32.59	Pass	H
5796.67	147	323	-40.05	-13	-27.05	Pass	H
6457.24	152	333	-39.55	-13	-26.55	Pass	H
8098.37	145	85	-43.23	-13	-30.23	Pass	H
1262.80	153	26	-57.23	-13	-44.23	Pass	V
1516.47	148	4	-55.92	-13	-42.92	Pass	V
3443.92	146	244	-52.05	-13	-39.05	Pass	V
3755.08	147	174	-53.11	-13	-40.11	Pass	V
5734.57	153	232	-47.32	-13	-34.32	Pass	V
6540.24	152	164	-45.67	-13	-32.67	Pass	V

Note:

9) Scan from 9kHz to 40GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

10) Tested with all kind of bandwidth,RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

QPSK							
Band 38 37775 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1346.54	147	204	-52.84	-25	-27.84	Pass	H
1628.49	154	266	-44.14	-25	-19.14	Pass	H
3986.45	146	161	-46.83	-25	-21.83	Pass	H
5861.46	151	228	-42.86	-25	-17.86	Pass	H
6597.43	155	175	-47.61	-25	-22.61	Pass	H
7972.26	149	207	-44.00	-25	-19.00	Pass	H
1194.50	145	7	-62.59	-25	-37.59	Pass	V
1525.26	149	206	-57.90	-25	-32.90	Pass	V
3598.72	153	210	-50.17	-25	-25.17	Pass	V
3788.45	154	30	-48.42	-25	-23.42	Pass	V
5769.96	147	105	-41.13	-25	-16.13	Pass	V
6542.17	149	114	-45.91	-25	-20.91	Pass	V
Band 38 38000 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1235.37	147	319	-53.84	-25	-28.84	Pass	H
1626.53	150	224	-49.14	-25	-24.14	Pass	H
3802.17	145	161	-49.23	-25	-24.23	Pass	H
5758.23	148	44	-47.92	-25	-22.92	Pass	H
6398.29	147	317	-40.79	-25	-15.79	Pass	H
7897.80	151	37	-48.97	-25	-23.97	Pass	H
1121.32	146	342	-56.15	-25	-31.15	Pass	V
1340.13	155	121	-62.11	-25	-37.11	Pass	V
3470.45	152	21	-50.04	-25	-25.04	Pass	V
3738.38	151	3	-50.60	-25	-25.60	Pass	V
5702.99	149	165	-42.99	-25	-17.99	Pass	V
6453.84	149	251	-46.44	-25	-21.44	Pass	V

Band 38 38225 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1418.81	151	136	-52.82	-25	-27.82	Pass	H
1644.21	150	286	-47.05	-25	-22.05	Pass	H
3988.09	155	297	-51.95	-25	-26.95	Pass	H
5826.28	150	279	-45.88	-25	-20.88	Pass	H
6450.29	149	9	-40.71	-25	-15.71	Pass	H
7951.12	150	268	-46.55	-25	-21.55	Pass	H
1142.63	151	174	-55.80	-25	-30.80	Pass	V
1476.82	150	220	-62.33	-25	-37.33	Pass	V
3524.42	149	229	-52.41	-25	-27.41	Pass	V
3843.19	151	353	-50.84	-25	-25.84	Pass	V
5859.40	149	209	-42.84	-25	-17.84	Pass	V
6534.38	148	232	-47.08	-25	-22.08	Pass	V
16QAM							
Band 38 37775 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1396.66	150	271	-54.55	-25	-29.55	Pass	H
1671.25	146	195	-51.82	-25	-26.82	Pass	H
3942.54	149	113	-50.92	-25	-25.92	Pass	H
5770.26	148	25	-49.37	-25	-24.37	Pass	H
6421.58	153	315	-45.81	-25	-20.81	Pass	H
7972.64	150	97	-45.48	-25	-20.48	Pass	H
1275.83	150	303	-59.09	-25	-34.09	Pass	V
1444.06	149	184	-52.18	-25	-27.18	Pass	V
3488.74	152	198	-45.12	-25	-20.12	Pass	V
3888.71	155	21	-48.92	-25	-23.92	Pass	V
5774.68	149	275	-44.36	-25	-19.36	Pass	V
6579.59	148	5	-51.15	-25	-26.15	Pass	V

Band 38 38000 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1250.62	154	102	-56.35	-25	-31.35	Pass	H
1743.58	152	51	-53.18	-25	-28.18	Pass	H
3842.93	146	156	-47.95	-25	-22.95	Pass	H
5786.98	151	340	-46.06	-25	-21.06	Pass	H
6504.08	152	204	-45.84	-25	-20.84	Pass	H
8035.84	154	73	-44.93	-25	-19.93	Pass	H
1150.38	145	269	-61.19	-25	-36.19	Pass	V
1465.88	148	5	-57.54	-25	-32.54	Pass	V
3572.99	151	158	-51.43	-25	-26.43	Pass	V
3818.08	155	167	-48.15	-25	-23.15	Pass	V
5815.58	154	316	-44.87	-25	-19.87	Pass	V
6643.34	150	38	-49.82	-25	-24.82	Pass	V
Band 38 38225 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1432.62	148	161	-51.88	-25	-26.88	Pass	H
1786.19	147	196	-52.44	-25	-27.44	Pass	H
3820.00	146	192	-45.64	-25	-20.64	Pass	H
5818.12	150	152	-47.39	-25	-22.39	Pass	H
6428.75	146	76	-49.80	-25	-24.80	Pass	H
8019.49	146	248	-43.87	-25	-18.87	Pass	H
1254.23	153	203	-57.43	-25	-32.43	Pass	V
1457.16	153	136	-56.39	-25	-31.39	Pass	V
3529.04	149	357	-48.95	-25	-23.95	Pass	V
3758.84	145	185	-52.02	-25	-27.02	Pass	V
5767.02	147	68	-46.24	-25	-21.24	Pass	V
6536.44	153	99	-49.38	-25	-24.38	Pass	V

Note:

11) Scan from 9kHz to 40GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

12) Tested with all kind of bandwidth,RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

QPSK-B41							
Band 41 40265 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1244.93	148	230	-57.99	-25	-32.99	Pass	H
1704.60	146	290	-48.54	-25	-23.54	Pass	H
3802.05	149	197	-46.18	-25	-21.18	Pass	H
5833.57	153	80	-44.54	-25	-19.54	Pass	H
6595.08	149	201	-40.26	-25	-15.26	Pass	H
8096.74	146	290	-47.15	-25	-22.15	Pass	H
1272.60	153	90	-51.61	-25	-26.61	Pass	V
1434.47	147	290	-59.31	-25	-34.31	Pass	V
3638.65	152	168	-53.40	-25	-28.40	Pass	V
3775.36	155	36	-47.08	-25	-22.08	Pass	V
5728.21	147	10	-42.59	-25	-17.59	Pass	V
6482.25	152	335	-47.63	-25	-22.63	Pass	V
Band 41 40740 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1415.69	152	8	-56.84	-25	-31.84	Pass	H
1609.60	146	47	-49.46	-25	-24.46	Pass	H
3856.87	146	280	-44.40	-25	-19.40	Pass	H
5923.01	155	144	-44.67	-25	-19.67	Pass	H
6458.11	153	359	-42.27	-25	-17.27	Pass	H
8048.03	149	155	-44.48	-25	-19.48	Pass	H
1142.85	152	241	-55.62	-25	-30.62	Pass	V
1427.93	152	22	-57.39	-25	-32.39	Pass	V
3604.43	145	67	-51.87	-25	-26.87	Pass	V
3786.66	151	78	-49.12	-25	-24.12	Pass	V
5830.85	152	21	-44.96	-25	-19.96	Pass	V
6613.47	145	120	-44.00	-25	-19.00	Pass	V

Band 41 41215 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1303.83	153	162	-54.66	-25	-29.66	Pass	H
1618.35	151	349	-49.97	-25	-24.97	Pass	H
3949.31	149	268	-42.78	-25	-17.78	Pass	H
5892.52	153	9	-46.61	-25	-21.61	Pass	H
6553.15	148	265	-44.21	-25	-19.21	Pass	H
8048.03	145	105	-45.60	-25	-20.60	Pass	H
1148.92	154	151	-57.12	-25	-32.12	Pass	V
1460.47	151	242	-56.30	-25	-31.30	Pass	V
3636.85	148	8	-46.90	-25	-21.90	Pass	V
3788.61	150	178	-49.35	-25	-24.35	Pass	V
5892.76	152	173	-43.88	-25	-18.88	Pass	V
6482.77	148	258	-49.74	-25	-24.74	Pass	V

16QAM-B41							
Band 41 40265 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1319.55	145	39	-56.47	-25	-31.47	Pass	H
1681.18	148	243	-48.90	-25	-23.90	Pass	H
3940.49	145	340	-45.40	-25	-20.40	Pass	H
5822.61	151	232	-43.71	-25	-18.71	Pass	H
6432.98	152	18	-40.68	-25	-15.68	Pass	H
8098.31	150	66	-45.81	-25	-20.81	Pass	H
1161.63	152	131	-51.06	-25	-26.06	Pass	V
1530.78	153	234	-61.60	-25	-36.60	Pass	V
3600.46	154	143	-51.88	-25	-26.88	Pass	V
3765.00	151	128	-53.16	-25	-28.16	Pass	V
5726.48	147	217	-45.27	-25	-20.27	Pass	V
6636.42	145	238	-48.96	-25	-23.96	Pass	V

Band 41 40740 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1425.71	146	45	-55.76	-25	-30.76	Pass	H
1614.55	152	74	-48.36	-25	-23.36	Pass	H
3824.73	146	294	-42.64	-25	-17.64	Pass	H
5963.83	150	58	-43.12	-25	-18.12	Pass	H
6478.79	147	44	-39.59	-25	-14.59	Pass	H
8039.88	147	177	-44.96	-25	-19.96	Pass	H
1186.19	146	300	-54.00	-25	-29.00	Pass	V
1384.71	147	132	-55.62	-25	-30.62	Pass	V
3495.14	151	330	-47.95	-25	-22.95	Pass	V
3880.16	152	102	-50.94	-25	-25.94	Pass	V
5780.09	150	150	-46.57	-25	-21.57	Pass	V
6564.59	146	258	-46.11	-25	-21.11	Pass	V

Band 41 41215 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1281.34	150	199	-55.15	-25	-30.15	Pass	H
1796.86	154	345	-46.54	-25	-21.54	Pass	H
3924.97	154	354	-44.64	-25	-19.64	Pass	H
5928.20	148	195	-38.92	-25	-13.92	Pass	H
6485.38	153	321	-39.59	-25	-14.59	Pass	H
8136.91	150	68	-44.36	-25	-19.36	Pass	H
1227.78	147	278	-50.65	-25	-25.65	Pass	V
1402.54	154	188	-58.21	-25	-33.21	Pass	V
3623.65	147	32	-53.53	-25	-28.53	Pass	V
3833.47	152	161	-50.25	-25	-25.25	Pass	V
5900.21	148	35	-44.54	-25	-19.54	Pass	V
6557.94	151	240	-43.69	-25	-18.69	Pass	V

Note:

13) Scan from 9kHz to 40GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

14) Tested with all kind of bandwidth,RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

QPSK							
Band 40A 38725 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1425.10	150	133	-53.91	-40	-13.91	Pass	H
1822.30	152	177	-46.72	-40	-6.72	Pass	H
3760.16	145	142	-48.11	-40	-8.11	Pass	H
5829.82	149	109	-41.24	-40	-1.24	Pass	H
6455.56	145	179	-48.49	-40	-8.49	Pass	H
8091.53	153	351	-45.19	-40	-5.19	Pass	H
1128.68	147	296	-57.21	-40	-17.21	Pass	V
1466.77	151	6	-59.42	-40	-19.42	Pass	V
3491.79	147	56	-51.03	-40	-11.03	Pass	V
3806.20	153	179	-44.31	-40	-4.31	Pass	V
5747.07	153	124	-46.75	-40	-6.75	Pass	V
6579.39	145	165	-43.18	-40	-3.18	Pass	V
Band 40A 38750 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1402.79	153	195	-58.73	-40	-18.73	Pass	H
1786.73	153	251	-52.20	-40	-12.20	Pass	H
3790.24	154	356	-48.93	-40	-8.93	Pass	H
5918.52	147	220	-45.15	-40	-5.15	Pass	H
6527.32	155	77	-49.63	-40	-9.63	Pass	H
8116.25	148	194	-44.77	-40	-4.77	Pass	H
1261.60	151	209	-60.69	-40	-20.69	Pass	V
1405.26	152	74	-58.22	-40	-18.22	Pass	V
3525.03	151	265	-52.04	-40	-12.04	Pass	V
3943.87	152	308	-49.92	-40	-9.92	Pass	V
5767.59	147	2	-49.72	-40	-9.72	Pass	V
6468.96	149	3	-43.45	-40	-3.45	Pass	V

Band 40A 38775 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1241.38	153	296	-54.83	-40	-14.83	Pass	H
1727.58	152	150	-49.04	-40	-9.04	Pass	H
3947.53	150	28	-51.58	-40	-11.58	Pass	H
5957.29	146	152	-44.67	-40	-4.67	Pass	H
6419.65	148	333	-44.01	-40	-4.01	Pass	H
8055.26	150	148	-47.26	-40	-7.26	Pass	H
1222.99	152	15	-61.40	-40	-21.40	Pass	V
1479.10	155	78	-61.13	-40	-21.13	Pass	V
3628.04	149	78	-50.03	-40	-10.03	Pass	V
3783.99	147	46	-52.11	-40	-12.11	Pass	V
5759.69	147	329	-48.19	-40	-8.19	Pass	V
6591.27	150	75	-46.89	-40	-5.68	Pass	V
16QAM							
Band 40A 38725 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1347.33	154	196	-54.42	-40	-14.42	Pass	H
1783.63	147	49	-49.93	-40	-9.93	Pass	H
3897.17	154	127	-49.30	-40	-9.30	Pass	H
6016.58	151	331	-47.19	-40	-7.19	Pass	H
6483.95	149	311	-47.43	-40	-7.43	Pass	H
7973.58	152	193	-44.37	-40	-4.37	Pass	H
1214.73	151	175	-58.86	-40	-18.86	Pass	V
1479.60	155	83	-57.82	-40	-17.82	Pass	V
3603.28	146	3	-53.02	-40	-13.02	Pass	V
3948.96	148	67	-51.00	-40	-11.00	Pass	V
5915.00	149	152	-47.51	-40	-7.51	Pass	V
6450.37	152.16	24.30	-45.78	-40	-5.78	Pass	V

Band 40A 38750channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1271.30	148	332	-55.68	-40	-15.68	Pass	H
1800.75	152	269	-48.73	-40	-8.73	Pass	H
3937.22	149	37	-50.77	-40	-10.77	Pass	H
5890.35	152	208	-46.55	-40	-6.55	Pass	H
6457.88	148	348	-47.29	-40	-7.29	Pass	H
8117.87	147	133	-45.34	-40	-5.34	Pass	H
1139.11	153	228	-57.94	-40	-17.94	Pass	V
1374.69	151	291	-61.25	-40	-21.25	Pass	V
3603.85	152	237	-51.63	-40	-11.63	Pass	V
3811.78	145	283	-50.86	-40	-10.86	Pass	V
5815.41	146	248	-45.84	-40	-5.84	Pass	V
6600.03	155	116	-47.36	-40	-7.36	Pass	V
Band 40A 38875 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1361.58	153	101	-58.03	-40	-18.03	Pass	H
1637.59	148	186	-49.89	-40	-9.89	Pass	H
3949.51	147	86	-46.30	-40	-6.30	Pass	H
5834.13	149	42	-45.33	-40	-5.33	Pass	H
6549.86	147	151	-48.21	-40	-8.21	Pass	H
8068.79	152	220	-42.32	-40	-2.32	Pass	H
1189.26	148	315	-57.27	-40	-17.27	Pass	V
1476.05	147	115	-58.23	-40	-18.23	Pass	V
3500.92	145	44	-50.28	-40	-10.28	Pass	V
3787.05	150	124	-49.18	-40	-9.18	Pass	V
5784.19	152	151	-45.88	-40	-5.88	Pass	V
6519.06	149	43	-48.10	-40	-8.10	Pass	V

Note:

15) Scan from 9kHz to 40GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

16) Tested with all kind of bandwidth,RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

QPSK							
Band 40B 39175channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1279.20	146	8	-52.78	-40	-12.78	Pass	H
1736.49	145	53	-49.75	-40	-9.75	Pass	H
3774.73	150	142	-50.51	-40	-10.51	Pass	H
6009.63	154	242	-42.25	-40	-2.25	Pass	H
6420.24	152	346	-46.18	-40	-6.18	Pass	H
8157.60	149	304	-46.79	-40	-6.79	Pass	H
1163.73	152	103	-55.78	-40	-15.78	Pass	V
1436.42	152	14	-62.44	-40	-22.44	Pass	V
3495.38	150	43	-47.97	-40	-7.97	Pass	V
3919.21	152	354	-51.59	-40	-11.59	Pass	V
5806.82	151	156	-48.89	-40	-8.89	Pass	V
6531.34	151	142	-44.34	-40	-4.34	Pass	V
Band 40B 39200 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1252.30	146	137	-57.83	-40	-17.83	Pass	H
1804.17	152	357	-49.56	-40	-9.56	Pass	H
3758.22	145	16	-49.12	-40	-9.12	Pass	H
5938.75	151	34	-45.30	-40	-5.30	Pass	H
6540.34	150	309	-47.67	-40	-7.67	Pass	H
8127.72	151	123	-45.48	-40	-5.48	Pass	H
1126.20	151	347	-56.60	-40	-16.60	Pass	V
1429.35	146	9	-59.77	-40	-19.77	Pass	V
3589.22	148	40	-49.52	-40	-9.52	Pass	V
3829.04	151	8	-52.37	-40	-12.37	Pass	V
5842.24	147	296	-47.39	-40	-7.39	Pass	V
6460.20	154	280	-47.68	-40	-7.68	Pass	V

Band 40B 39225 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1424.75	152	59	-58.21	-40	-18.21	Pass	H
1672.37	154	318	-52.50	-40	-12.50	Pass	H
3869.55	148	255	-48.87	-40	-8.87	Pass	H
5936.79	155	70	-43.80	-40	-3.80	Pass	H
6510.50	151	307	-48.42	-40	-8.42	Pass	H
7986.91	146	292	-43.41	-40	-3.41	Pass	H
1178.32	154	56	-56.56	-40	-16.56	Pass	V
1413.45	147	183	-58.18	-40	-18.18	Pass	V
3532.48	148	204	-52.56	-40	-12.56	Pass	V
3800.82	153	48	-48.47	-40	-8.47	Pass	V
5794.62	145	343	-46.81	-40	-6.81	Pass	V
6567.61	154	7	-44.03	-40	-4.03	Pass	V
16QAM							
Band 40B 39175 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1378.85	149	1	-53.47	-40	-13.47	Pass	H
1766.48	148	56	-47.53	-40	-7.53	Pass	H
3822.54	148	251	-49.74	-40	-9.74	Pass	H
5931.47	153	40	-46.62	-40	-6.62	Pass	H
6572.08	148	353	-49.38	-40	-9.38	Pass	H
8001.20	150	218	-45.67	-40	-5.67	Pass	H
1146.21	149	264	-60.12	-40	-20.12	Pass	V
1430.05	149	349	-59.78	-40	-19.78	Pass	V
3455.48	146	307	-52.60	-40	-12.60	Pass	V
3859.10	152	110	-49.81	-40	-9.81	Pass	V
5801.95	150	150	-48.55	-40	-8.55	Pass	V
6456.97	147	149	-48.68	-40	-8.68	Pass	V

Band 40B 39200channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1415.67	146	295	-53.63	-40	-13.63	Pass	H
1667.79	146	214	-49.04	-40	-9.04	Pass	H
3758.23	145	166	-47.77	-40	-7.77	Pass	H
5840.45	146	173	-47.01	-40	-7.01	Pass	H
6490.09	146	74	-47.41	-40	-7.41	Pass	H
8094.46	145	228	-46.05	-40	-6.05	Pass	H
1233.43	146	197	-58.76	-40	-18.76	Pass	V
1451.44	146	283	-60.65	-40	-20.65	Pass	V
3479.31	146	107	-51.59	-40	-11.59	Pass	V
3901.03	146	213	-51.29	-40	-11.29	Pass	V
5887.97	145	69	-50.00	-40	-10.00	Pass	V
6545.43	145	356	-48.12	-40	-8.12	Pass	V
Band 40B 39225 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1420.50	150	122	-55.45	-40	-15.45	Pass	H
1691.85	154	332	-51.09	-40	-11.09	Pass	H
3801.72	152	189	-48.11	-40	-8.11	Pass	H
5967.27	145	252	-47.91	-40	-7.91	Pass	H
6592.06	153	294	-48.06	-40	-8.06	Pass	H
8128.10	155	325	-47.40	-40	-7.40	Pass	H
1268.71	152	290	-58.19	-40	-18.19	Pass	V
1343.16	154	20	-58.65	-40	-18.65	Pass	V
3588.73	152	327	-50.67	-40	-10.67	Pass	V
3778.88	151	288	-52.07	-40	-12.07	Pass	V
5818.64	145	233	-47.83	-40	-7.83	Pass	V
6550.03	153	74	-44.06	-40	-4.06	Pass	V

Note:

17) Scan from 9kHz to 40GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

18) Tested with all kind of bandwidth,RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

12. FREQUENCY STABILITY

12.1 Standard Applicable

According to §22.355, §24.235, §27.54 the limit is 2.5ppm.

12.2 Test Procedure

According to §2.1055, the following test procedure was performed.
The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.
The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode

12.3 Summary of Test Results/Plots

Note: 1.Normal Voltage NV=DC 3.8V; Low Voltage LV=DC 3.42V; High Voltage HV=DC 4.18V
Please refer to Appendix 2: Frequency Stability
Test result: Pass

※※※※※ END OF REPORT ※※※※※