



TEST REPORT

Product Name: walkie talkie
FCC ID: 2BO5B-TDC7900
Trademark: N/A
Model Number: TD-C7900, AI-7900, AD-7900, OMI-T8, G900, NX79, VDC79, N290, PN350, TK-A79, C79
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Sample Received Date: Nov. 12, 2025
Sample tested Date: Nov. 12, 2025 to Dec. 02, 2025
Issue Date: Dec. 02, 2025
Report No.: CTB25111200602RF01
Test Standards: FCC Part 2, 22, 24E, 27
Test Results: PASS
Remark: This is LTE radio test report.

Compiled by:

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Approved by:

Kai Chen

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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.

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(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB25111200602RF01	Dec. 02, 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)(2)/ Part 24.232(c)/Part27.50(h)(2)/ Part27.50(d)(4)/ Part27.50(c)(10)/ Part27.50(b)(10)/ Part27.50(a)(3)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
peak-to-average ratio	Part 22.913(d)/Part 27.50(d) /Part 27.50(a) (1)	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 24.238(a)/Part 27.53(g) (1) Part 22.917(a)/Part 27.53(i) (4)/ Part 27.53(c) /Part 27.253(f)/Part 27.53(a) (2)	KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 24.238(a)/Part 27.53(g) (1) Part 22.917(a)/Part 27.53(i) (4)/ Part 27.53(c) /Part 27.253(f)/Part 27.53(a) (2)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	Part 2.1051/ Part 24.238(a)/Part 27.53(g) (1) Part 22.917(a)/Part 27.53(i) (4)/ Part 27.53(c) /Part 27.253(f)/Part 27.53(a) (2)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Frequency stability	Part 2.1055/Part 27.54/ Part 22.355	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 chamber 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°C
frequency	1×10^{-7}

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	TD-C7900, AI-7900, AD-7900, OMI-T8, G900, NX79, VDC79, N290, PN350, TK-A79, C79
Model Description:	All the model are the same circuit and RF module, only the model names are different. Test sample model: TD-C7900
Hardware Version:	V2
Software Version:	V1.0
Operation Frequency:	FDD-LTE BAND 4: 1710-1755MHz FDD-LTE BAND 5: 824-849MHz FDD-LTE BAND 7: 2500-2570MHz FDD-LTE BAND 12: 699-716MHz FDD-LTE BAND 17: 704-716MHz TDD-LTE BAND 38: 2570-2620MHz TDD-LTE BAND 40a: 2305-2315MHz TDD-LTE BAND 40b: 2350-2360MHz FDD-LTE BAND 66: 1710-1780MHz
Max. RF output power:	FDD-LTE BAND 4: 22.23dBm FDD-LTE BAND 5: 22.1dBm FDD-LTE BAND 7: 22.76dBm FDD-LTE BAND 12: 22.03dBm FDD-LTE BAND 17: 22.44dBm TDD-LTE BAND 38: 21.93dBm TDD-LTE BAND 40a: 19.99dBm TDD-LTE BAND 40b: 20.87dBm FDD-LTE BAND 66: 22.34dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	FPC antenna
Antenna Gain:	FDD-LTE BAND 4: -0.15dBi FDD-LTE BAND 5: -2.22dBi FDD-LTE BAND 7: -1.57dBi FDD-LTE BAND 12: -0.32dBi FDD-LTE BAND 17: -0.4dBi TDD-LTE BAND 38: 0.42dBi TDD-LTE BAND 40a: 0.15dBi TDD-LTE BAND 40b: 0.15dBi FDD-LTE BAND 66: -1.11dBi
Ratings:	Input: 5V=1A Battery Capacity: 3.7Vdc, 6000mAh, 22.2Wh

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 4	Low, Middle, High Channels
TM2	FDD-LTE BAND 5	Low, Middle, High Channels
TM3	FDD-LTE BAND 7	Low, Middle, High Channels
TM4	FDD -LTE BAND 12	Low, Middle, High Channels
TM5	FDD -LTE BAND17	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	FDD-LTE BAND 66	Low, Middle, High Channels

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 17

Test Mode	Test Frequency	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)	Number [DL]	Frequency of Downlink(MHz)
LTE BAND 12	Low Range	1.4	23017	699.7	5017	729.7
		3	23025	700.5	5025	730.5
		5	23035	701.5	5035	731.5
		10	23060	704	5060	734
	Mid Range	1.4/3/5/10	23095	707.5	5095	737.5
		1.4	23173	715.3	5173	745.3
	High Range	3	23165	714.5	5165	744.5
		5	23155	713.5	5155	743.5
		10	23130	711	5130	741

LTE BAND 17

Test Mode	Test Frequency	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)	Number [DL]	Frequency of Downlink(MHz)
LTE BAND 17	Low Range	5	23755	706.5	5755	736.5
		10	23780	709	5780	739
	Mid Range	5/10	23790	710	5790	740
	High Range	5	23825	713.5	5825	743.5
		10	23800	711	5800	741

LTE BAND 38

Test Mode	Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)
LTE BAND 38	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 66

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 66	Low Range	1.4	66443	2110.7
		3	66451	2111.5
		5	66461	2112.5
		10	66486	2115
		15	66511	2117.5
		20	66536	2120
	Mid Range TX ¹	1.4/3/5/10/15/20	66786	2145
	Mid Range	1.4/3/5/10/15/20	66886	2155
	Paired High Range ²	1.4	67129	2179.3
		3	67121	2178.5
		5	67111	2177.5
		10	67086	2175
		15	67061	2172.5
		20	67036	2170
	High Range ³	1.4	67329	2199.3
		3	67321	2198.5
		5	67311	2197.5
		10	67286	2195
		15	67261	2192.5
		20	67236	2190

Note: EUT is UE category 1, 16QAM Modulation of 10MHz/15MHz/20MHz for all bands FULL RB size is not supported.

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	4.2V
Normal Temperature(°C)	23
Low Temperature(°C)	0
High Temperature(°C)	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, Xinghe 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.

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	Microwave	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	Microwave	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.

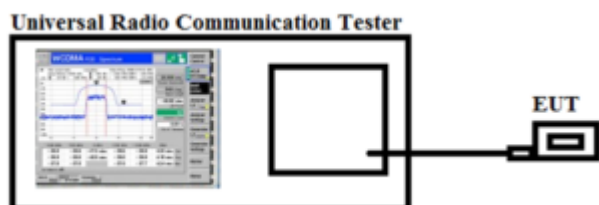
According to §27.50(h)(2), Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

According to §27.50(b)(10), Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

According to §27.50(a)(3), For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

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 §22.913(d),

Power measurement. Measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

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(d), 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.

According to §27.50(a) (1), For base and fixed stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, 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.

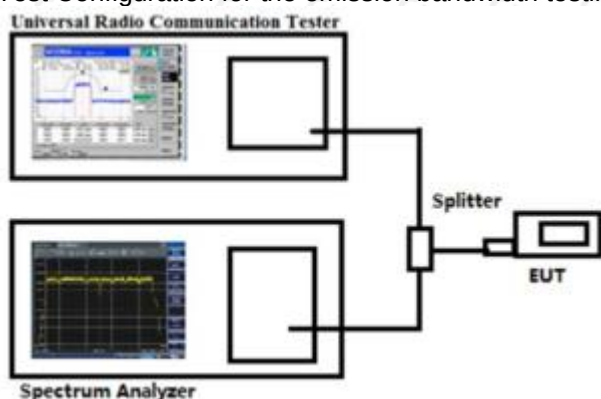
corresponding to the highest PAPR expected during periods of continuous transmission.

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.

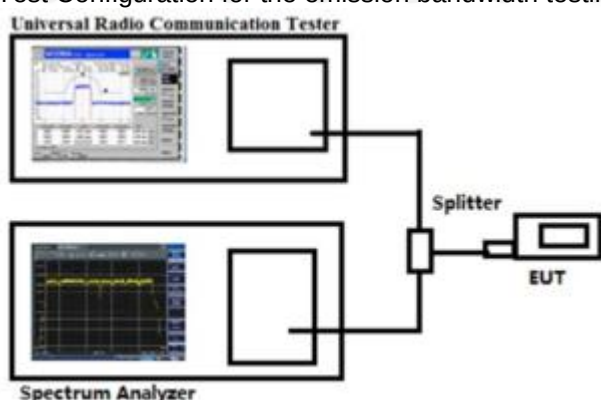
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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 $43 + 10 \log(P)$ 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 than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.

According to §27.53(a)(2), For base and fixed stations' operations in the 2305-2320 MHz band and the 2345-2360 MHz band:

(1) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, and not less than

75 + 10 log (P) dB on all frequencies between 2320 and 2345 MHz;

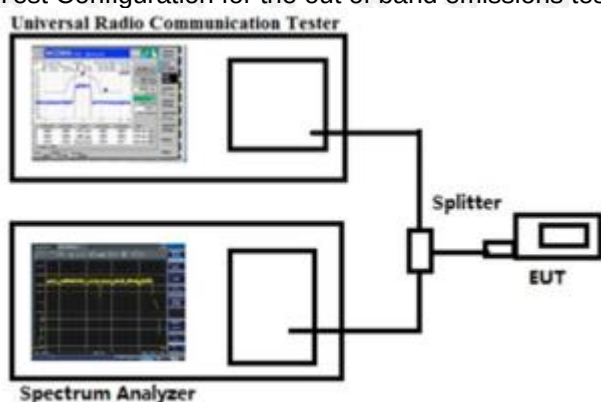
(2) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 70 + 10 log (P) dB on all frequencies between 2287.5 and 2300 MHz, 72 + 10 log (P) dB on all frequencies between 2285 and 2287.5 MHz, and 75 + 10 log (P) dB below 2285 MHz;

(3) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2362.5 MHz, 55 + 10 log (P) dB on all frequencies between 2362.5 and 2365 MHz, 70 + 10 log (P) dB on all frequencies between 2365 and 2367.5 MHz, 72 + 10 log (P) dB on all frequencies between 2367.5 and 2370 MHz, and 75 + 10 log (P) dB above 2370 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:

(6) 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;

(7) 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;

(8) 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;

(9) 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;

(10) 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 $43 + 10 \log_{10}(P)$ 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 than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.

According to §27.53(a)(2), For base and fixed stations' operations in the 2305-2320 MHz band and the 2345-2360 MHz band:

(1) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all

frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, and not less than $75 + 10 \log (P)$ dB on all frequencies between 2320 and 2345 MHz;

(2) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $70 + 10 \log (P)$ dB on all frequencies between 2287.5 and 2300 MHz, $72 + 10 \log (P)$ dB on all frequencies between 2285 and 2287.5 MHz, and $75 + 10 \log (P)$ dB below 2285 MHz;

(3) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2362.5 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2362.5 and 2365 MHz, $70 + 10 \log (P)$ dB on all frequencies between 2365 and 2367.5 MHz, $72 + 10 \log (P)$ dB on all frequencies between 2367.5 and 2370 MHz, and $75 + 10 \log (P)$ dB above 2370 MHz.

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 = $43 + 10 \log_{10} (\text{power out in Watts})$

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 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.
1355.48	150	195	-55.82	-13	-42.82	Pass	H
1696.56	157	194	-50.31	-13	-37.31	Pass	H
3880.11	158	339	-48.82	-13	-35.82	Pass	H
5963.07	150	342	-42.12	-13	-29.12	Pass	H
6504.21	156	262	-41.81	-13	-28.81	Pass	H
8153.00	151	167	-44.30	-13	-31.30	Pass	H
1171.36	151	302	-55.87	-13	-42.87	Pass	V
1378.60	151	267	-56.38	-13	-43.38	Pass	V
3584.98	149	71	-51.07	-13	-38.07	Pass	V
3813.74	151	120	-52.58	-13	-39.58	Pass	V
5774.38	153	336	-48.37	-13	-35.37	Pass	V
6558.93	152	274	-49.09	-13	-36.09	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.
1346.49	150	22	-54.98	-13	-41.98	Pass	H
1666.81	146	102	-52.32	-13	-39.32	Pass	H
3859.44	150	250	-50.59	-13	-37.59	Pass	H
5883.02	146	95	-43.38	-13	-30.38	Pass	H
6447.27	149	89	-50.78	-13	-37.78	Pass	H
8028.31	151	81	-50.12	-13	-37.12	Pass	H
1152.36	149	331	-50.94	-13	-37.94	Pass	V
1488.38	148	250	-56.88	-13	-43.88	Pass	V
3586.04	147	193	-56.67	-13	-43.67	Pass	V
3868.22	148	276	-51.16	-13	-38.16	Pass	V
5844.39	150	106	-46.88	-13	-33.88	Pass	V
6498.18	150	207	-47.36	-13	-34.36	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.
1300.89	146	162	-56.36	-13	-43.36	Pass	H
1705.87	153	145	-49.74	-13	-36.74	Pass	H
3937.51	151	238	-47.72	-13	-34.72	Pass	H
5980.68	149	199	-40.35	-13	-27.35	Pass	H
6504.75	151	354	-39.95	-13	-26.95	Pass	H
7900.31	155	132	-45.46	-13	-32.46	Pass	H
1237.99	150	274	-55.64	-13	-42.64	Pass	V
1478.86	145	153	-53.94	-13	-40.94	Pass	V
3587.35	151	27	-50.64	-13	-37.64	Pass	V
3995.37	151	86	-47.01	-13	-34.01	Pass	V
5788.78	152	215	-44.05	-13	-31.05	Pass	V
6482.20	148	221	-47.92	-13	-34.92	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.
1299.16	152	40	-60.05	-13	-47.05	Pass	H
1716.89	151	235	-46.27	-13	-33.27	Pass	H
3847.49	153	47	-47.95	-13	-34.95	Pass	H
5830.87	151	208	-47.44	-13	-34.44	Pass	H
6643.37	148	22	-44.88	-13	-31.88	Pass	H
8073.23	150	245	-43.37	-13	-30.37	Pass	H
1134.91	150	339	-52.67	-13	-39.67	Pass	V
1457.39	146	218	-53.23	-13	-40.23	Pass	V
3595.85	151	225	-52.23	-13	-39.23	Pass	V
3963.06	148	303	-52.30	-13	-39.30	Pass	V
5824.43	147	344	-46.96	-13	-33.96	Pass	V
6614.65	155	95	-52.33	-13	-39.33	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.
1320.34	146	298	-50.91	-13	-41.45	Pass	H
1677.87	147	76	-51.40	-13	-37.85	Pass	H
3762.84	153	153	-48.87	-13	-35.2	Pass	H
5941.69	148	58	-42.25	-13	-30.39	Pass	H
6429.70	154	188	-41.97	-13	-32.24	Pass	H
8041.71	153	152	-44.52	-13	-30.22	Pass	H
1273.73	151	229	-60.85	-13	-44.9	Pass	V
1440.29	149	82	-59.07	-13	-43.63	Pass	V
3513.75	154	311	-49.94	-13	-35.94	Pass	V
3763.70	152	90	-51.84	-13	-36.01	Pass	V
5894.72	153	12	-45.42	-13	-33.75	Pass	V
6474.82	154	172	-48.15	-13	-32.41	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.
1265.63	146	293	-57.60	-13	-44.60	Pass	H
1782.39	153	173	-51.80	-13	-38.80	Pass	H
3828.35	146	31	-43.15	-13	-30.15	Pass	H
5850.61	146	82	-42.99	-13	-29.99	Pass	H
6559.96	153	197	-39.74	-13	-26.74	Pass	H
7999.51	151	213	-43.17	-13	-30.17	Pass	H
1244.16	154	38	-54.14	-13	-41.14	Pass	V
1470.73	147	147	-60.64	-13	-47.64	Pass	V
3461.17	155	79	-49.41	-13	-36.41	Pass	V
3874.97	148	42	-49.45	-13	-36.45	Pass	V
5886.86	155	71	-45.54	-13	-32.54	Pass	V
6634.64	145	354	-44.52	-13	-31.52	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 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.
1349.58	156	343	-57.85	-13	-44.85	Pass	H
1797.34	158	70	-51.03	-13	-38.03	Pass	H
3980.24	144	303	-49.01	-13	-36.01	Pass	H
5850.78	160	232	-42.22	-13	-29.22	Pass	H
6495.36	141	1	-44.44	-13	-31.44	Pass	H
8142.66	144	222	-40.98	-13	-27.98	Pass	H
1248.22	142	243	-52.29	-13	-39.29	Pass	V
1362.71	152	157	-57.03	-13	-44.03	Pass	V
3570.67	146	39	-51.79	-13	-38.79	Pass	V
3759.91	152	23	-49.67	-13	-36.67	Pass	V
5852.63	151	190	-48.49	-13	-35.49	Pass	V
6548.73	146	12	-49.42	-13	-36.42	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.
1322.87	150	141	-58.26	-13	-45.26	Pass	H
1774.40	146	9	-52.45	-13	-39.45	Pass	H
3861.00	150	346	-48.40	-13	-35.40	Pass	H
5804.47	146	10	-44.48	-13	-31.48	Pass	H
6441.53	149	353	-50.66	-13	-37.66	Pass	H
7924.98	151	213	-48.03	-13	-35.03	Pass	H
1293.13	149	281	-53.65	-13	-40.65	Pass	V
1406.85	148	295	-56.16	-13	-43.16	Pass	V
3501.71	147	23	-52.83	-13	-39.83	Pass	V
3918.48	148	217	-51.99	-13	-38.99	Pass	V
5885.69	150	336	-46.64	-13	-33.64	Pass	V
6439.40	150	93	-51.15	-13	-38.15	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.
1310.88	146	63	-57.81	-13	-44.81	Pass	H
1595.43	151	246	-54.59	-13	-41.59	Pass	H
3881.63	153	243	-42.81	-13	-29.81	Pass	H
5859.26	154	133	-42.94	-13	-29.94	Pass	H
6528.12	153	97	-43.67	-13	-30.67	Pass	H
7967.07	146	321	-45.50	-13	-32.50	Pass	H
1314.46	147	198	-56.60	-13	-43.60	Pass	V
1400.63	154	25	-55.98	-13	-42.98	Pass	V
3558.09	152	8	-52.58	-13	-39.58	Pass	V
3837.95	153	252	-48.17	-13	-35.17	Pass	V
5858.52	152	325	-43.51	-13	-30.51	Pass	V
6663.21	148	101	-45.12	-13	-32.12	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.
1273.03	151	357	-59.65	-13	-46.65	Pass	H
1714.70	149	343	-44.87	-13	-31.87	Pass	H
3783.03	148	156	-49.79	-13	-36.79	Pass	H
5983.18	149	134	-43.61	-13	-30.61	Pass	H
6498.86	151	98	-42.78	-13	-29.78	Pass	H
8079.16	148	92	-42.60	-13	-29.60	Pass	H
1224.75	146	95	-53.83	-13	-40.83	Pass	V
1338.63	151	217	-58.06	-13	-45.06	Pass	V
3613.67	145	246	-49.86	-13	-36.86	Pass	V
3894.04	153	31	-49.64	-13	-36.64	Pass	V
5913.59	150	349	-45.92	-13	-32.92	Pass	V
6511.19	148	142	-51.93	-13	-38.93	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.
1335.10	150	6	-55.08	-13	-41.45	Pass	H
1813.78	148	127	-48.95	-13	-37.85	Pass	H
3919.72	148	231	-50.53	-13	-35.2	Pass	H
5859.01	149	141	-45.46	-13	-30.39	Pass	H
6555.29	150	43	-41.36	-13	-32.24	Pass	H
8018.86	146	185	-43.75	-13	-30.22	Pass	H
1102.53	150	304	-55.07	-13	-44.9	Pass	V
1385.67	152	215	-52.88	-13	-43.63	Pass	V
3550.01	154	180	-50.51	-13	-35.94	Pass	V
3825.30	146	358	-46.62	-13	-36.01	Pass	V
5784.90	149	305	-47.18	-13	-33.75	Pass	V
6596.62	150	314	-46.04	-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.
1428.35	147	247	-57.11	-13	-44.11	Pass	H
1759.40	145	1	-48.30	-13	-35.30	Pass	H
3941.56	155	318	-41.49	-13	-28.49	Pass	H
5910.92	149	210	-44.11	-13	-31.11	Pass	H
6527.19	149	336	-37.62	-13	-24.62	Pass	H
7991.53	149	286	-47.74	-13	-34.74	Pass	H
1118.57	150	277	-53.48	-13	-40.48	Pass	V
1467.41	147	140	-61.09	-13	-48.09	Pass	V
3514.09	153	13	-47.07	-13	-34.07	Pass	V
3833.53	152	24	-52.17	-13	-39.17	Pass	V
5801.35	152	289	-51.05	-13	-38.05	Pass	V
6498.36	146	236	-45.04	-13	-32.04	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 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.
1329.43	146	53	-59.53	-13	-46.53	Pass	H
1762.75	146	115	-49.54	-13	-36.54	Pass	H
3846.80	152	150	-50.44	-13	-37.44	Pass	H
5932.31	151	260	-46.92	-13	-33.92	Pass	H
6574.34	146	210	-43.33	-13	-30.33	Pass	H
7914.82	152	38	-38.64	-13	-25.64	Pass	H
1243.31	153	301	-51.44	-13	-38.44	Pass	V
1334.63	152	288	-57.91	-13	-44.91	Pass	V
3618.62	147	312	-51.58	-13	-38.58	Pass	V
3895.74	146	191	-53.75	-13	-40.75	Pass	V
5841.91	146	246	-44.26	-13	-31.26	Pass	V
6509.93	153	100	-44.93	-13	-31.93	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.
1421.66	153	191	-51.60	-13	-38.60	Pass	H
1705.69	149	241	-49.19	-13	-36.19	Pass	H
3812.12	154	136	-50.07	-13	-37.07	Pass	H
5928.25	145	90	-44.94	-13	-31.94	Pass	H
6534.68	149	109	-43.19	-13	-30.19	Pass	H
8148.83	153	279	-45.22	-13	-32.22	Pass	H
1251.37	148	285	-57.71	-13	-44.71	Pass	V
1477.63	155	1	-60.26	-13	-47.26	Pass	V
3547.38	150	47	-48.97	-13	-35.97	Pass	V
3942.69	149	135	-46.00	-13	-33.00	Pass	V
5722.66	146	270	-44.38	-13	-31.38	Pass	V
6424.55	147	255	-47.76	-13	-34.76	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.
1388.81	154	176	-53.00	-13	-40.00	Pass	H
1740.62	148	94	-47.53	-13	-34.53	Pass	H
3924.08	153	202	-46.94	-13	-33.94	Pass	H
5864.25	154	117	-37.64	-13	-24.64	Pass	H
6523.99	148	144	-41.50	-13	-28.50	Pass	H
8074.04	154	207	-45.08	-13	-32.08	Pass	H
1110.24	152	163	-52.27	-13	-39.27	Pass	V
1382.65	147	194	-59.34	-13	-46.34	Pass	V
3639.74	150	19	-46.86	-13	-33.86	Pass	V
3854.66	154	216	-48.57	-13	-35.57	Pass	V
5859.14	152	301	-47.41	-13	-34.41	Pass	V
6459.78	145	71	-45.53	-13	-32.53	Pass	V

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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.
1365.38	146	138	-57.30	-13	-44.30	Pass	H
1673.25	155	278	-55.31	-13	-42.31	Pass	H
3980.03	150	9	-52.48	-13	-39.48	Pass	H
5801.83	151	236	-43.30	-13	-30.30	Pass	H
6448.50	152	327	-49.21	-13	-36.21	Pass	H
8062.53	151	293	-50.42	-13	-37.42	Pass	H
1131.36	148	319	-57.52	-13	-44.52	Pass	V
1436.15	154	22	-53.37	-13	-40.37	Pass	V
3663.77	146	279	-46.85	-13	-33.85	Pass	V
3817.45	146	151	-46.78	-13	-33.78	Pass	V
5747.19	154	170	-44.33	-13	-31.33	Pass	V
6550.81	150	70	-49.65	-13	-36.65	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.
1354.50	150	19	-57.82	-13	-44.82	Pass	H
1781.19	151	163	-55.68	-13	-42.68	Pass	H
3844.82	153	122	-49.02	-13	-36.02	Pass	H
5960.17	151	253	-41.10	-13	-28.10	Pass	H
6366.13	153	150	-48.14	-13	-35.14	Pass	H
7940.64	154	341	-42.32	-13	-29.32	Pass	H
1171.08	150	338	-56.17	-13	-43.17	Pass	V
1440.67	155	139	-62.07	-13	-49.07	Pass	V
3597.53	150	229	-49.24	-13	-36.24	Pass	V
3952.43	148	265	-55.29	-13	-42.29	Pass	V
5906.94	150	197	-53.25	-13	-40.25	Pass	V
6445.73	152	88	-49.57	-13	-36.57	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.
1321.07	152	145	-54.09	-13	-41.09	Pass	H
1647.18	154	70	-54.31	-13	-41.31	Pass	H
3832.95	150	334	-43.67	-13	-30.67	Pass	H
5861.76	147	4	-39.26	-13	-26.26	Pass	H
6439.45	153	230	-44.89	-13	-31.89	Pass	H
7972.94	148	121	-46.15	-13	-33.15	Pass	H
1228.77	147	324	-55.11	-13	-42.11	Pass	V
1337.73	152	254	-55.58	-13	-42.58	Pass	V
3451.63	147	101	-53.87	-13	-40.87	Pass	V
3870.94	147	101	-48.83	-13	-35.83	Pass	V
5776.37	146	221	-47.56	-13	-34.56	Pass	V
6523.98	152	279	-44.43	-13	-31.43	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.

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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.
1414.18	157	176	-59.79	-13	-46.79	Pass	H
1771.24	158	17	-49.15	-13	-36.15	Pass	H
3985.68	154	265	-48.74	-13	-35.74	Pass	H
5982.24	151	38	-44.92	-13	-31.92	Pass	H
6466.70	149	220	-46.01	-13	-33.01	Pass	H
8175.13	157	348	-45.01	-13	-32.01	Pass	H
1208.59	155	104	-54.26	-13	-41.26	Pass	V
1531.65	142	67	-58.67	-13	-45.67	Pass	V
3534.21	145	114	-48.14	-13	-35.14	Pass	V
3759.75	159	186	-51.51	-13	-38.51	Pass	V
5794.88	150	11	-47.28	-13	-34.28	Pass	V
6567.85	158	228	-44.67	-13	-31.67	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.
1292.74	150	94	-56.15	-13	-43.15	Pass	H
1777.52	146	51	-54.18	-13	-41.18	Pass	H
3953.34	150	87	-50.60	-13	-37.60	Pass	H
5785.42	146	26	-48.04	-13	-35.04	Pass	H
6491.25	149	79	-50.66	-13	-37.66	Pass	H
8095.98	151	70	-49.40	-13	-36.40	Pass	H
1188.85	149	227	-51.47	-13	-38.47	Pass	V
1383.91	148	155	-61.06	-13	-48.06	Pass	V
3517.34	147	33	-54.68	-13	-41.68	Pass	V
3822.03	148	274	-51.76	-13	-38.76	Pass	V
5765.22	150	257	-50.86	-13	-37.86	Pass	V
6491.57	150	4	-45.98	-13	-32.98	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.
1427.46	152	138	-54.74	-13	-41.74	Pass	H
1588.66	154	203	-51.85	-13	-38.85	Pass	H
3941.87	149	339	-48.27	-13	-35.27	Pass	H
5991.82	148	0	-43.55	-13	-30.55	Pass	H
6583.30	151	5	-40.90	-13	-27.90	Pass	H
7916.46	151	100	-45.78	-13	-32.78	Pass	H
1225.93	155	9	-58.78	-13	-45.78	Pass	V
1333.32	146	245	-58.65	-13	-45.65	Pass	V
3432.63	154	154	-51.50	-13	-38.50	Pass	V
3859.65	150	221	-51.42	-13	-38.42	Pass	V
5874.43	145	36	-43.12	-13	-30.12	Pass	V
6483.93	151	36	-48.01	-13	-35.01	Pass	V

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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.
1402.71	150	278	-61.39	-13	-48.39	Pass	H
1754.26	148	32	-45.59	-13	-32.59	Pass	H
3820.53	152	167	-48.26	-13	-35.26	Pass	H
5846.47	152	245	-46.75	-13	-33.75	Pass	H
6631.67	147	180	-44.42	-13	-31.42	Pass	H
8086.90	146	8	-42.14	-13	-29.14	Pass	H
1248.44	148	163	-50.31	-13	-37.31	Pass	V
1472.34	155	192	-55.00	-13	-42.00	Pass	V
3676.29	149	148	-50.69	-13	-37.69	Pass	V
3889.38	152	358	-53.29	-13	-40.29	Pass	V
5847.55	147	213	-46.51	-13	-33.51	Pass	V
6550.89	145	50	-52.18	-13	-39.18	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.
1346.03	155	349	-52.58	-13	-41.45	Pass	H
1629.30	151	179	-53.49	-13	-37.85	Pass	H
3905.77	146	155	-51.00	-13	-35.2	Pass	H
5846.28	154	309	-43.35	-13	-30.39	Pass	H
6494.21	145	336	-48.14	-13	-32.24	Pass	H
8081.83	152	267	-45.95	-13	-30.22	Pass	H
1172.83	146	112	-54.12	-13	-44.9	Pass	V
1467.21	154	146	-55.37	-13	-43.63	Pass	V
3627.71	153	351	-50.37	-13	-35.94	Pass	V
3885.32	152	39	-45.23	-13	-36.01	Pass	V
5919.44	147	97	-45.34	-13	-33.75	Pass	V
6436.94	153	213	-42.54	-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.
1364.62	149	8	-54.20	-13	-41.20	Pass	H
1629.42	148	212	-49.59	-13	-36.59	Pass	H
3827.76	153	296	-41.33	-13	-28.33	Pass	H
5933.87	150	96	-41.60	-13	-28.60	Pass	H
6537.01	148	173	-37.53	-13	-24.53	Pass	H
8174.21	145	348	-46.96	-13	-33.96	Pass	H
1220.80	155	269	-58.48	-13	-45.48	Pass	V
1479.15	146	132	-62.12	-13	-49.12	Pass	V
3533.37	149	145	-46.41	-13	-33.41	Pass	V
3822.91	147	279	-53.03	-13	-40.03	Pass	V
5813.57	149	292	-49.43	-13	-36.43	Pass	V
6606.80	146	315	-44.29	-13	-31.29	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.

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Band 17 23755 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1276.29	149	244	-60.39	-13	-47.39	Pass	H
1744.86	147	182	-49.85	-13	-36.85	Pass	H
3829.39	150	163	-52.56	-13	-39.56	Pass	H
5913.70	150	95	-46.74	-13	-33.74	Pass	H
6623.58	152	233	-43.45	-13	-30.45	Pass	H
7953.25	150	8	-38.78	-13	-25.78	Pass	H
1223.03	150	272	-52.03	-13	-39.03	Pass	V
1500.96	150	291	-56.73	-13	-43.73	Pass	V
3641.33	155	16	-47.50	-13	-34.50	Pass	V
3927.42	155	59	-48.78	-13	-35.78	Pass	V
5756.83	154	122	-41.56	-13	-28.56	Pass	V
6673.11	149	149	-47.37	-13	-34.37	Pass	V

Band 17 23790 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1321.83	150	287	-53.70	-13	-40.70	Pass	H
1691.25	148	12	-46.57	-13	-33.57	Pass	H
3933.51	147	67	-50.20	-13	-37.20	Pass	H
6000.27	150	95	-40.88	-13	-27.88	Pass	H
6500.73	155	207	-42.56	-13	-29.56	Pass	H
8056.28	153	9	-43.89	-13	-30.89	Pass	H
1187.43	148	297	-59.59	-13	-46.59	Pass	V
1474.29	147	244	-57.81	-13	-44.81	Pass	V
3516.31	152	127	-49.44	-13	-36.44	Pass	V
3760.36	147	77	-47.57	-13	-34.57	Pass	V
5784.90	147	30	-43.73	-13	-30.73	Pass	V
6420.01	146	270	-41.99	-13	-28.99	Pass	V

Band 17 23825 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1325.39	152	175	-55.16	-13	-42.16	Pass	H
1665.25	146	251	-50.34	-13	-37.34	Pass	H
3934.98	150	143	-46.17	-13	-33.17	Pass	H
5956.70	154	321	-40.81	-13	-27.81	Pass	H
6461.77	154	82	-44.61	-13	-31.61	Pass	H
8030.15	149	342	-45.17	-13	-32.17	Pass	H
1153.15	148	292	-56.38	-13	-43.38	Pass	V
1468.84	145	9	-55.45	-13	-42.45	Pass	V
3533.27	146	202	-47.87	-13	-34.87	Pass	V
3876.61	145	94	-46.78	-13	-33.78	Pass	V
5810.95	147	280	-49.81	-13	-36.81	Pass	V
6588.13	148	37	-44.71	-13	-31.71	Pass	V

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Band 17 23755 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1420.40	149	271	-57.60	-13	-44.60	Pass	H
1797.59	153	144	-50.25	-13	-37.25	Pass	H
3982.83	152	109	-46.99	-13	-33.99	Pass	H
5907.09	149	156	-44.70	-13	-31.70	Pass	H
6508.59	152	71	-47.16	-13	-34.16	Pass	H
7943.14	154	263	-45.47	-13	-32.47	Pass	H
1292.73	151	103	-55.50	-13	-42.50	Pass	V
1415.85	154	304	-51.55	-13	-38.55	Pass	V
3600.50	148	270	-52.97	-13	-39.97	Pass	V
3855.41	146	262	-50.07	-13	-37.07	Pass	V
5706.64	145	325	-48.59	-13	-35.59	Pass	V
6508.03	146	28	-50.18	-13	-37.18	Pass	V

Band 17 23790 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1203.05	154	319	-59.66	-13	-46.66	Pass	H
1785.65	149	135	-50.09	-13	-37.09	Pass	H
3835.84	153	44	-49.64	-13	-36.64	Pass	H
5954.22	146	266	-46.60	-13	-33.60	Pass	H
6490.03	147	195	-53.40	-13	-40.40	Pass	H
8030.57	151	167	-47.62	-13	-34.62	Pass	H
1293.82	147	299	-52.74	-13	-39.74	Pass	V
1376.50	151	349	-61.62	-13	-48.62	Pass	V
3671.46	150	75	-52.67	-13	-39.67	Pass	V
3883.35	154	337	-51.41	-13	-38.41	Pass	V
5860.96	152	358	-48.90	-13	-35.90	Pass	V
6501.29	153	332	-46.43	-13	-33.43	Pass	V

Band 17 23825 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1299.14	149	168	-57.70	-13	-44.70	Pass	H
1662.99	147	108	-52.83	-13	-39.83	Pass	H
3813.03	149	67	-43.46	-13	-30.46	Pass	H
5898.90	146	311	-44.23	-13	-31.23	Pass	H
6511.64	153	194	-46.25	-13	-33.25	Pass	H
7921.86	152	319	-46.59	-13	-33.59	Pass	H
1244.05	149	95	-50.10	-13	-37.10	Pass	V
1320.16	153	8	-50.09	-13	-37.09	Pass	V
3490.11	151	87	-52.59	-13	-39.59	Pass	V
3867.24	153	85	-42.81	-13	-29.81	Pass	V
5776.06	153	55	-42.94	-13	-29.94	Pass	V
6558.72	154	124	-44.17	-13	-31.17	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.

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Band 38 37775 channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1365.14	146	91	-52.69	-25	-27.69	Pass	H
1789.59	150	130	-47.93	-25	-22.93	Pass	H
3920.37	151	354	-47.15	-25	-22.15	Pass	H
5794.52	154	50	-46.64	-25	-21.64	Pass	H
6512.81	152	131	-46.64	-25	-21.64	Pass	H
8096.96	150	151	-45.48	-25	-20.48	Pass	H
1274.81	150	341	-59.76	-25	-34.76	Pass	V
1443.66	150	71	-58.38	-25	-33.38	Pass	V
3531.17	154	356	-45.81	-25	-20.81	Pass	V
3813.69	150	230	-49.39	-25	-24.39	Pass	V
5711.48	151	328	-40.58	-25	-15.58	Pass	V
6569.23	145	57	-46.45	-25	-21.45	Pass	V
Band 38 38000 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1235.24	146	342	-58.96	-25	-33.96	Pass	H
1625.85	153	140	-47.29	-25	-22.29	Pass	H
3802.29	149	326	-52.34	-25	-27.34	Pass	H
5758.37	152	62	-46.65	-25	-21.65	Pass	H
6398.15	154	61	-46.26	-25	-21.26	Pass	H
7897.81	152	36	-44.41	-25	-19.41	Pass	H
1120.90	147	212	-59.60	-25	-34.60	Pass	V
1340.50	151	325	-59.83	-25	-34.83	Pass	V
3469.82	147	108	-46.31	-25	-21.31	Pass	V
3738.41	147	20	-53.73	-25	-28.73	Pass	V
5703.72	148	66	-47.05	-25	-22.05	Pass	V
6453.89	153	112	-48.10	-25	-23.10	Pass	V

Band 38 38225 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1243.89	149	305	-51.46	-25	-26.46	Pass	H
1715.80	151	337	-45.94	-25	-20.94	Pass	H
3949.02	146	161	-49.90	-25	-24.90	Pass	H
5874.46	152	156	-45.59	-25	-20.59	Pass	H
6542.92	146	171	-44.92	-25	-19.92	Pass	H
8031.12	148	97	-48.69	-25	-23.69	Pass	H
1257.35	153	338	-58.56	-25	-33.56	Pass	V
1435.99	148	166	-57.83	-25	-32.83	Pass	V
3515.68	153	75	-55.44	-25	-30.44	Pass	V
3829.02	151	328	-54.13	-25	-29.13	Pass	V
5725.01	147	234	-41.58	-25	-16.58	Pass	V
6616.69	154	38	-53.03	-25	-28.03	Pass	V
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Band 38 37775 channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1404.62	155	304	-51.44	-25	-26.44	Pass	H
1798.39	152	303	-51.91	-25	-26.91	Pass	H
3917.30	149	276	-46.18	-25	-21.18	Pass	H
5765.31	149	82	-43.29	-25	-18.29	Pass	H
6503.16	146	319	-42.38	-25	-17.38	Pass	H
8076.90	153	341	-43.22	-25	-18.22	Pass	H
1123.24	149	195	-60.41	-25	-35.41	Pass	V
1437.24	153	35	-55.89	-25	-30.89	Pass	V
3580.92	150	32	-49.46	-25	-24.46	Pass	V
3828.55	150	47	-48.18	-25	-23.18	Pass	V
5805.92	151	347	-47.40	-25	-22.40	Pass	V
6570.49	153	143	-47.87	-25	-22.87	Pass	V

Band 38 38000 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1316.04	153	121	-53.95	-25	-28.95	Pass	H
1672.55	147	119	-52.68	-25	-27.68	Pass	H
3832.01	147	233	-47.40	-25	-22.40	Pass	H
5907.07	146	193	-49.53	-25	-24.53	Pass	H
6405.76	152	197	-50.75	-25	-25.75	Pass	H
7913.73	153	246	-40.68	-25	-15.68	Pass	H
1120.28	155	171	-55.01	-25	-30.01	Pass	V
1429.16	152	110	-56.59	-25	-31.59	Pass	V
3475.68	149	274	-51.97	-25	-26.97	Pass	V
3825.81	146	312	-49.28	-25	-24.28	Pass	V
5756.91	149	159	-42.19	-25	-17.19	Pass	V
6632.75	153	262	-47.82	-25	-22.82	Pass	V
Band 38 38225 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1347.20	154	288	-56.58	-25	-31.58	Pass	H
1666.58	153	51	-50.24	-25	-25.24	Pass	H
3922.35	152	110	-45.09	-25	-20.09	Pass	H
5778.28	146	58	-49.35	-25	-24.35	Pass	H
6468.28	153	40	-48.53	-25	-23.53	Pass	H
7900.61	145	55	-42.35	-25	-17.35	Pass	H
1214.06	152	235	-61.09	-25	-36.09	Pass	V
1341.50	150	313	-60.25	-25	-35.25	Pass	V
3562.52	154	122	-51.05	-25	-26.05	Pass	V
3783.83	154	161	-52.23	-25	-27.23	Pass	V
5721.16	154	12	-45.04	-25	-20.04	Pass	V
6454.72	147	178	-52.87	-25	-27.87	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							
Band 40A 38725 channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)					
1312.76	146	116	-54.27	-40	-14.27	Pass	H
1782.44	148	340	-46.24	-40	-6.24	Pass	H
3939.56	151	14	-51.69	-40	-11.69	Pass	H
5962.66	154	72	-44.55	-40	-4.55	Pass	H
6597.18	154	307	-44.68	-40	-4.68	Pass	H
8007.64	148	184	-44.97	-40	-4.97	Pass	H
1131.70	147	290	-50.99	-40	-10.99	Pass	V
1476.90	154	297	-59.54	-40	-19.54	Pass	V
3494.02	145	97	-52.61	-40	-12.61	Pass	V
3916.23	146	155	-46.97	-40	-6.97	Pass	V
5762.26	147	296	-44.23	-40	-4.23	Pass	V
6584.26	147	56	-46.84	-40	-6.84	Pass	V
Band 40A 38750 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)					
1412.26	152	217	-58.10	-40	-18.10	Pass	H
1786.52	147	300	-51.95	-40	-11.95	Pass	H
3920.67	150	131	-48.83	-40	-8.83	Pass	H
6001.98	150	277	-45.27	-40	-5.27	Pass	H
6428.17	147	342	-48.59	-40	-8.59	Pass	H
8097.91	149	37	-43.53	-40	-3.53	Pass	H
1102.07	155	204	-59.14	-40	-19.14	Pass	V
1350.91	149	295	-59.90	-40	-19.90	Pass	V
3632.25	153	9	-50.43	-40	-10.43	Pass	V
3858.52	153	147	-49.92	-40	-9.92	Pass	V
5828.25	148	87	-48.99	-40	-8.99	Pass	V
6593.35	147	360	-43.28	-40	-3.28	Pass	V

Band 40A 38775 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1306.98	149	228	-54.30	-40	-14.30	Pass	H
1789.39	148	77	-48.83	-40	-8.83	Pass	H
3923.18	155	223	-50.00	-40	-10.00	Pass	H
6004.75	155	263	-45.29	-40	-5.29	Pass	H
6447.36	150	343	-43.04	-40	-3.04	Pass	H
8043.39	150	312	-46.55	-40	-6.55	Pass	H
1161.02	148	246	-61.01	-40	-21.01	Pass	V
1404.95	148	75	-61.19	-40	-21.19	Pass	V
3562.28	153	341	-51.18	-40	-11.18	Pass	V
3806.34	153	161	-51.48	-40	-11.48	Pass	V
5727.97	153	161	-48.52	-40	-8.52	Pass	V
6604.01	149	264	-48.54	-40	-5.68	Pass	V
16QAM							
Band 40A 38725 channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1337.21	154	43	-54.01	-40	-14.01	Pass	H
1681.20	145	204	-49.56	-40	-9.56	Pass	H
3855.81	154	124	-48.95	-40	-8.95	Pass	H
5839.77	154	324	-46.94	-40	-6.94	Pass	H
6580.90	148	290	-48.30	-40	-8.30	Pass	H
7988.23	146	193	-43.37	-40	-3.37	Pass	H
1154.55	146	256	-58.79	-40	-18.79	Pass	V
1363.03	149	205	-57.92	-40	-17.92	Pass	V
3560.82	149	94	-53.76	-40	-13.76	Pass	V
3770.95	148	104	-51.08	-40	-11.08	Pass	V
5738.47	150	326	-48.23	-40	-8.23	Pass	V
6436.26	152.32	87.29	-45.96	-40	-5.96	Pass	V

Band 40A 38750channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1264.57	155	343	-55.37	-40	-15.37	Pass	H
1752.51	154	153	-51.21	-40	-11.21	Pass	H
3756.84	152	93	-49.11	-40	-9.11	Pass	H
5922.14	152	282	-44.57	-40	-4.57	Pass	H
6517.64	151	218	-48.07	-40	-8.07	Pass	H
8102.88	145	89	-47.45	-40	-7.45	Pass	H
1286.45	152	230	-56.84	-40	-16.84	Pass	V
1438.56	152	123	-63.05	-40	-23.05	Pass	V
3537.20	155	234	-48.94	-40	-8.94	Pass	V
3844.26	150	160	-48.40	-40	-8.40	Pass	V
5813.79	153	6	-46.81	-40	-6.81	Pass	V
6552.61	147	187	-45.51	-40	-5.51	Pass	V
Band 40A 38875 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1356.02	153	80	-55.55	-40	-15.55	Pass	H
1787.71	155	336	-49.06	-40	-9.06	Pass	H
3811.55	147	127	-49.05	-40	-9.05	Pass	H
6010.27	152	178	-44.80	-40	-4.80	Pass	H
6536.16	147	96	-46.96	-40	-6.96	Pass	H
7974.06	154	217	-41.69	-40	-1.69	Pass	H
1240.56	150	139	-58.38	-40	-18.38	Pass	V
1411.90	145	331	-58.54	-40	-18.54	Pass	V
3546.94	153	337	-49.10	-40	-9.10	Pass	V
3837.39	148	301	-48.59	-40	-8.59	Pass	V
5741.28	146	309	-45.97	-40	-5.97	Pass	V
6585.32	154	243	-46.38	-40	-6.38	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 40B 39175channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1325.20	149	312	-54.94	-40	-14.94	Pass	H
1638.41	146	226	-48.99	-40	-8.99	Pass	H
3794.63	146	169	-48.62	-40	-8.62	Pass	H
5850.99	154	357	-43.93	-40	-3.93	Pass	H
6480.08	154	150	-46.12	-40	-6.12	Pass	H
8150.15	152	271	-46.25	-40	-6.25	Pass	H
1191.04	154	27	-54.86	-40	-14.86	Pass	V
1385.64	146	23	-60.66	-40	-20.66	Pass	V
3546.98	150	342	-46.94	-40	-6.94	Pass	V
3845.70	154	77	-49.84	-40	-9.84	Pass	V
5896.00	145	42	-45.46	-40	-5.46	Pass	V
6471.24	150	16	-44.77	-40	-4.77	Pass	V
Band 40B 39200 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1376.05	150	134	-55.06	-40	-15.06	Pass	H
1732.92	151	221	-51.12	-40	-11.12	Pass	H
3880.69	151	150	-49.42	-40	-9.42	Pass	H
5911.96	150	167	-44.49	-40	-4.49	Pass	H
6579.11	153	202	-46.19	-40	-6.19	Pass	H
8106.48	150	147	-45.94	-40	-5.94	Pass	H
1154.93	148	282	-58.46	-40	-18.46	Pass	V
1428.86	146	66	-57.40	-40	-17.40	Pass	V
3585.60	153	232	-50.23	-40	-10.23	Pass	V
3866.43	146	348	-53.00	-40	-13.00	Pass	V
5735.96	150	36	-46.48	-40	-6.48	Pass	V
6578.21	152	94	-46.15	-40	-6.15	Pass	V

Band 40B 39225 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1338.91	148	77	-58.32	-40	-18.32	Pass	H
1757.38	151	72	-52.92	-40	-12.92	Pass	H
3925.48	152	326	-50.93	-40	-10.93	Pass	H
5901.42	148	124	-44.05	-40	-4.05	Pass	H
6604.08	147	267	-48.32	-40	-8.32	Pass	H
8052.64	149	205	-45.43	-40	-5.43	Pass	H
1240.74	154	173	-57.32	-40	-17.32	Pass	V
1404.32	152	8	-60.15	-40	-20.15	Pass	V
3600.85	147	355	-51.13	-40	-11.13	Pass	V
3907.78	149	344	-50.42	-40	-10.42	Pass	V
5814.70	149	237	-47.46	-40	-7.46	Pass	V
6522.82	146	265	-43.94	-40	-3.94	Pass	V
16QAM							
Band 40B 39175 channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1371.33	152	344	-53.01	-40	-13.01	Pass	H
1659.94	153	334	-49.75	-40	-9.75	Pass	H
3766.00	153	99	-49.86	-40	-9.86	Pass	H
5837.32	146	126	-44.46	-40	-4.46	Pass	H
6405.49	150	41	-48.53	-40	-8.53	Pass	H
8122.74	154	156	-47.37	-40	-7.37	Pass	H
1232.89	147	306	-59.96	-40	-19.96	Pass	V
1337.40	152	44	-60.90	-40	-20.90	Pass	V
3613.72	151	36	-53.18	-40	-13.18	Pass	V
3788.87	146	232	-48.28	-40	-8.28	Pass	V
5739.67	153	134	-48.19	-40	-8.19	Pass	V
6619.31	147	186	-48.60	-40	-8.60	Pass	V

Band 40B 39200channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1409.36	146	272	-55.52	-40	-15.52	Pass	H
1815.90	146	258	-47.65	-40	-7.65	Pass	H
3819.26	145	23	-48.75	-40	-8.75	Pass	H
5988.20	145	260	-44.65	-40	-4.65	Pass	H
6595.25	146	212	-47.47	-40	-7.47	Pass	H
8061.68	146	171	-45.99	-40	-5.99	Pass	H
1152.54	145	182	-58.68	-40	-18.68	Pass	V
1399.76	145	324	-58.30	-40	-18.30	Pass	V
3588.26	146	160	-53.18	-40	-13.18	Pass	V
3779.11	145	251	-49.66	-40	-9.66	Pass	V
5732.49	146	219	-50.56	-40	-10.56	Pass	V
6558.02	145	27	-44.43	-40	-4.43	Pass	V
Band 40B 39225 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1387.49	152	65	-55.47	-40	-15.47	Pass	H
1681.70	147	137	-49.86	-40	-9.86	Pass	H
3850.31	146	12	-46.20	-40	-6.20	Pass	H
5861.31	150	29	-47.45	-40	-7.45	Pass	H
6602.60	150	3	-48.59	-40	-8.59	Pass	H
7980.28	148	89	-44.53	-40	-4.53	Pass	H
1114.67	145	308	-55.54	-40	-15.54	Pass	V
1403.38	151	316	-61.12	-40	-21.12	Pass	V
3598.05	148	205	-49.14	-40	-9.14	Pass	V
3845.14	154	135	-49.55	-40	-9.55	Pass	V
5882.62	147	60	-50.86	-40	-10.86	Pass	V
6474.10	153	286	-46.22	-40	-6.22	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 66 131979 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1262.93	156	136	-58.52	-13	-45.52	Pass	H
1631.06	152	249	-46.69	-13	-33.69	Pass	H
3898.57	151	5	-46.19	-13	-33.19	Pass	H
5916.75	141	67	-42.10	-13	-29.10	Pass	H
6489.63	148	7	-45.36	-13	-32.36	Pass	H
8095.25	155	109	-43.18	-13	-30.18	Pass	H
1112.26	146	85	-53.35	-13	-40.35	Pass	V
1486.29	153	299	-57.71	-13	-44.71	Pass	V
3506.09	141	97	-48.39	-13	-35.39	Pass	V
3823.86	144	193	-52.19	-13	-39.19	Pass	V
5808.67	143	342	-48.12	-13	-35.12	Pass	V
6650.15	145	154	-48.05	-13	-35.05	Pass	V
Band 66 132322 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1303.46	150	155	-56.46	-13	-43.46	Pass	H
1686.87	146	321	-50.58	-13	-37.58	Pass	H
3906.16	150	111	-49.58	-13	-36.58	Pass	H
5777.76	146	238	-42.88	-13	-29.88	Pass	H
6390.14	149	1	-47.91	-13	-34.91	Pass	H
8033.68	151	332	-46.52	-13	-33.52	Pass	H
1179.05	149	129	-56.76	-13	-43.76	Pass	V
1466.80	148	117	-58.06	-13	-45.06	Pass	V
3644.49	147	0	-55.19	-13	-42.19	Pass	V
3823.72	148	8	-48.20	-13	-35.20	Pass	V
5731.25	150	81	-50.62	-13	-37.62	Pass	V
6479.64	150	155	-50.51	-13	-37.51	Pass	V

Band 66 132665 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1383.17	151	349	-58.40	-13	-45.40	Pass	H
1704.42	150	102	-49.22	-13	-36.22	Pass	H
3776.45	155	113	-48.13	-13	-35.13	Pass	H
5983.08	150	186	-39.83	-13	-26.83	Pass	H
6614.91	155	296	-41.06	-13	-28.06	Pass	H
7927.61	149	177	-44.10	-13	-31.10	Pass	H
1298.25	148	32	-56.99	-13	-43.99	Pass	V
1417.07	145	241	-59.62	-13	-46.62	Pass	V
3528.66	147	82	-53.41	-13	-40.41	Pass	V
3812.85	153	236	-48.89	-13	-35.89	Pass	V
5763.34	151	341	-43.37	-13	-30.37	Pass	V
6482.95	151	263	-49.62	-13	-36.62	Pass	V

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Band 66 131979 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1421.75	151	266	-56.96	-13	-43.96	Pass	H
1713.57	151	168	-48.54	-13	-35.54	Pass	H
3804.51	153	306	-48.97	-13	-35.97	Pass	H
5921.66	152	178	-43.78	-13	-30.78	Pass	H
6612.90	146	111	-43.86	-13	-30.86	Pass	H
8074.41	145	192	-40.87	-13	-27.87	Pass	H
1209.48	155	36	-52.38	-13	-39.38	Pass	V
1331.82	146	304	-53.91	-13	-40.91	Pass	V
3634.87	146	299	-52.47	-13	-39.47	Pass	V
3909.20	145	4	-54.09	-13	-41.09	Pass	V
5800.24	152	279	-45.81	-13	-32.81	Pass	V
6508.71	147	86	-48.56	-13	-35.56	Pass	V

Band 66 132322 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1407.36	151	298	-50.51	-13	-41.45	Pass	H
1777.95	145	1	-51.25	-13	-37.85	Pass	H
3889.19	151	271	-50.75	-13	-35.2	Pass	H
5986.18	145	122	-39.91	-13	-30.39	Pass	H
6515.47	147	112	-47.67	-13	-32.24	Pass	H
8012.04	153	255	-45.92	-13	-30.22	Pass	H
1250.25	153	259	-57.00	-13	-44.9	Pass	V
1351.44	145	171	-58.61	-13	-43.63	Pass	V
3451.08	148	195	-47.17	-13	-35.94	Pass	V
3826.82	149	242	-50.65	-13	-36.01	Pass	V
5754.04	155	53	-44.23	-13	-33.75	Pass	V
6614.72	150	274	-46.63	-13	-32.41	Pass	V
Band 66 132665 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1389.82	153	130	-53.29	-13	-40.29	Pass	H
1607.14	155	277	-46.77	-13	-33.77	Pass	H
3892.60	147	312	-44.23	-13	-31.23	Pass	H
5849.92	151	16	-45.43	-13	-32.43	Pass	H
6572.77	145	341	-38.51	-13	-25.51	Pass	H
8073.10	147	148	-47.35	-13	-34.35	Pass	H
1157.48	152	33	-52.20	-13	-39.20	Pass	V
1395.87	154	176	-56.45	-13	-43.45	Pass	V
3550.46	148	167	-46.71	-13	-33.71	Pass	V
3756.54	146	45	-47.87	-13	-34.87	Pass	V
5712.35	153	156	-48.00	-13	-35.00	Pass	V
6539.45	154	124	-45.03	-13	-32.03	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 4.2V; Low Voltage LV=DC 3.78V; High Voltage HV=DC 4.62V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

***** END OF REPORT *****