



TEST REPORT

Product Name: walkie talkie
FCC ID: 2BRDP-TDT6
Trademark: N/A
Model Number: TD-T6, GT59, PN010, TR101, G360, R588, I300, G97, OMI-T6, VR68, TK-A18
Prepared For: Quanzhou Gaoqiye Electronic Technology Co.,Ltd
Address: 159 Jianzaihou, Wenshan Village, Xiamei Town, Nan'an City, Quanzhou City, Fujian Province, China
Manufacturer: Quanzhou Gaoqiye Electronic Technology Co.,Ltd
Address: 159 Jianzaihou, Wenshan Village, Xiamei Town, Nan'an City, Quanzhou City, Fujian Province, China
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: May. 19, 2025
Sample tested Date: May. 19, 2025 to Jul. 15, 2025
Issue Date: Jul. 15, 2025
Report No.: CTB25051911303RF02
Test Standards: FCC Part 2, 22, 24E, 27
Test Results: PASS
Remark: This is LTE radio test report.

Compiled by:

Reviewed by:

Approved by:

Zhou Kui

Arron Liu

Bin Mei

Zhou KuiArron LiuBin 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.

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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
CTB25051911303RF02	Jul. 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)(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-T6, GT59, PN010, TR101, G360, R588, I300, G97, OMI-T6, VR68, TK-A18
Model Description:	All the model are the same circuit and RF module, only the model names are different. Test sample model: TD-T6
Hardware Version:	V2
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 TDD-LTE BAND 38: 2570-2620MHz TDD-LTE BAND 40a: 2305-2315MHz TDD-LTE BAND 40b: 2350-2360MHz TDD-LTE BAND 41: 2496-2690 MHz FDD-LTE BAND 66: 1710-1780MHz
Max. RF output power:	FDD-LTE BAND 2: 22.02dBm FDD-LTE BAND 4: 22.48dBm FDD-LTE BAND 5: 21.21dBm FDD-LTE BAND 7: 22.60dBm TDD-LTE BAND 38: 21.47dBm TDD-LTE BAND 40a: 20.72dBm TDD-LTE BAND 40b: 20.76dBm TDD-LTE BAND 41: 21.87dBm FDD-LTE BAND 66: 22.22dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	FPC antenna
Antenna Gain:	FDD-LTE BAND 2: 0.73dBi FDD-LTE BAND 4: 0.33dBi FDD-LTE BAND 5: 0.41dBi FDD-LTE BAND 7: 0.63dBi TDD-LTE BAND 38: 0.88dBi TDD-LTE BAND 40a: 0.63dBi TDD-LTE BAND 40b: 0.63dBi TDD-LTE BAND 41: 0.83dBi FDD-LTE BAND 66: 0.76dBi
Ratings:	DC 5V charging from adapter DC 3.7V by 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 38	Low, Middle, High Channels
TM6	TDD-LTE BAND 40a	Low, Middle, High Channels
TM7	TDD-LTE BAND 40b	Low, Middle, High Channels
TM8	TDD-LTE BAND 41	Low, Middle, High Channels
TM9	FDD-LTE BAND 66	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 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

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):	3.7V
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, Xinxhe 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	/	2024/10/31	2025/10/30
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.

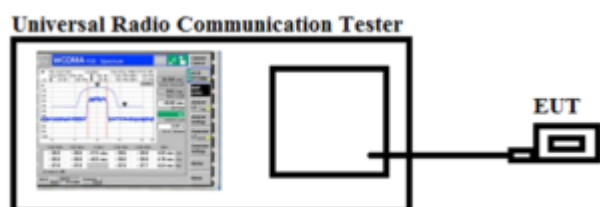
According to §27.50(h)(2), Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

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.

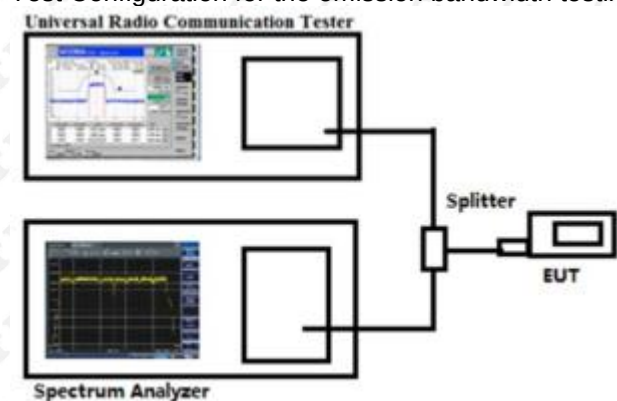
corresponding to the highest PAPR expected during periods of continuous transmission.

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.

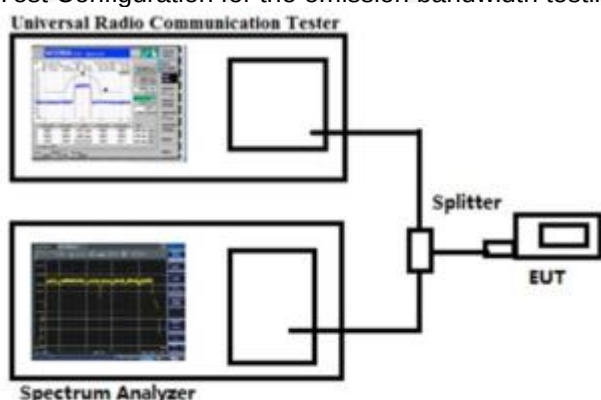
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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 $43 + 10 \log_{10}(P)$ 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;

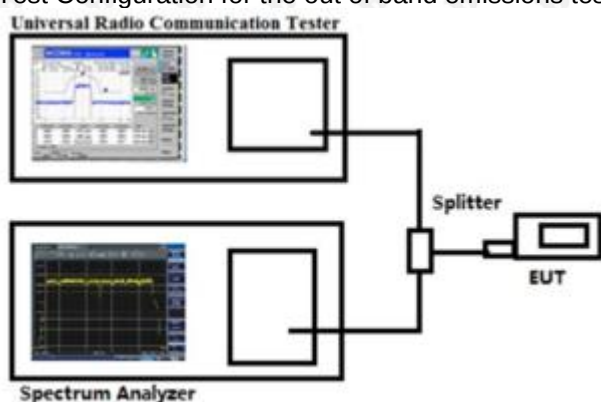
(2) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 70 + 10 log (P) dB on all frequencies between 2287.5 and 2300 MHz, 72 + 10 log (P) dB on all frequencies between 2285 and 2287.5 MHz, and 75 + 10 log (P) dB below 2285 MHz;

(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.

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 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.
1348.67	150	265	-54.88	-13	-41.88	Pass	H
1784.17	146	224	-53.22	-13	-40.22	Pass	H
3855.08	150	160	-51.30	-13	-38.30	Pass	H
5797.51	146	140	-44.18	-13	-31.18	Pass	H
6360.74	149	221	-51.28	-13	-38.28	Pass	H
7983.79	151	354	-45.53	-13	-32.53	Pass	H
1203.05	149	329	-51.17	-13	-38.17	Pass	V
1342.09	148	150	-57.90	-13	-44.90	Pass	V
3676.64	147	213	-52.57	-13	-39.57	Pass	V
3821.89	148	310	-50.22	-13	-37.22	Pass	V
5826.90	150	179	-47.38	-13	-34.38	Pass	V
6519.88	150	18	-49.37	-13	-36.37	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.
1414.93	154	114	-59.03	-13	-46.03	Pass	H
1719.68	153	307	-50.02	-13	-37.02	Pass	H
3931.81	146	244	-43.02	-13	-30.02	Pass	H
5833.19	150	317	-41.21	-13	-28.21	Pass	H
6434.98	150	235	-41.32	-13	-28.32	Pass	H
8089.12	151	130	-43.98	-13	-30.98	Pass	H
1195.58	155	173	-56.49	-13	-43.49	Pass	V
1459.85	149	302	-58.33	-13	-45.33	Pass	V
3598.79	151	273	-53.44	-13	-40.44	Pass	V
3956.62	146	14	-47.74	-13	-34.74	Pass	V
5725.23	153	60	-45.10	-13	-32.10	Pass	V
6635.79	149	230	-45.61	-13	-32.61	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.
1321.42	148	324	-60.74	-13	-47.74	Pass	H
1620.22	146	188	-44.89	-13	-31.89	Pass	H
3808.16	149	174	-45.98	-13	-32.98	Pass	H
5914.87	154	310	-42.35	-13	-29.35	Pass	H
6531.12	149	217	-46.21	-13	-33.21	Pass	H
7961.80	148	88	-44.22	-13	-31.22	Pass	H
1102.69	153	17	-52.80	-13	-39.80	Pass	V
1360.62	149	320	-58.33	-13	-45.33	Pass	V
3523.98	155	54	-50.23	-13	-37.23	Pass	V
3840.17	145	173	-51.22	-13	-38.22	Pass	V
5830.94	150	243	-45.32	-13	-32.32	Pass	V
6671.46	150	63	-46.93	-13	-33.93	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.
1301.80	150	124	-52.48	-13	-41.45	Pass	H
1644.81	146	177	-53.72	-13	-37.85	Pass	H
3838.70	148	152	-47.67	-13	-35.2	Pass	H
6016.73	150	306	-43.71	-13	-30.39	Pass	H
6480.03	148	83	-41.34	-13	-32.24	Pass	H
8121.54	150	265	-44.02	-13	-30.22	Pass	H
1114.76	146	269	-55.74	-13	-44.9	Pass	V
1434.33	146	265	-54.00	-13	-43.63	Pass	V
3473.13	146	10	-47.83	-13	-35.94	Pass	V
3902.77	153	11	-45.65	-13	-36.01	Pass	V
5787.48	146	267	-48.84	-13	-33.75	Pass	V
6594.07	146	282	-46.27	-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.
1284.25	146	172	-56.03	-13	-43.03	Pass	H
1762.20	150	290	-46.67	-13	-33.67	Pass	H
3806.32	151	246	-42.05	-13	-29.05	Pass	H
5911.68	147	91	-42.17	-13	-29.17	Pass	H
6599.34	147	213	-40.62	-13	-27.62	Pass	H
8138.05	151	99	-44.66	-13	-31.66	Pass	H
1230.19	147	353	-58.42	-13	-45.42	Pass	V
1515.56	147	254	-55.66	-13	-42.66	Pass	V
3609.97	151	161	-50.54	-13	-37.54	Pass	V
3925.64	152	299	-53.23	-13	-40.23	Pass	V
5720.22	155	248	-45.20	-13	-32.20	Pass	V
6631.36	151	191	-42.64	-13	-29.64	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.
1322.77	151	215	-59.68	-13	-46.68	Pass	H
1629.51	148	83	-48.30	-13	-35.30	Pass	H
3789.09	150	154	-47.41	-13	-34.41	Pass	H
5842.17	151	356	-47.57	-13	-34.57	Pass	H
6551.50	152	79	-47.46	-13	-34.46	Pass	H
7988.62	149	285	-38.97	-13	-25.97	Pass	H
1158.97	150	108	-52.26	-13	-39.26	Pass	V
1423.94	147	226	-54.77	-13	-41.77	Pass	V
3654.67	155	168	-53.38	-13	-40.38	Pass	V
3963.94	149	231	-50.70	-13	-37.70	Pass	V
5887.76	154	89	-42.94	-13	-29.94	Pass	V
6591.77	151	19	-49.51	-13	-36.51	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.
1234.19	153	103	-57.17	-13	-44.17	Pass	H
1654.74	154	16	-49.41	-13	-36.41	Pass	H
3873.26	150	36	-43.82	-13	-30.82	Pass	H
6016.46	145	171	-42.03	-13	-29.03	Pass	H
6547.17	147	21	-42.08	-13	-29.08	Pass	H
8115.81	149	213	-44.81	-13	-31.81	Pass	H
1156.09	155	242	-55.04	-13	-42.04	Pass	V
1359.17	150	143	-56.47	-13	-43.47	Pass	V
3477.75	147	282	-49.44	-13	-36.44	Pass	V
3900.89	146	89	-48.78	-13	-35.78	Pass	V
5764.59	146	134	-46.88	-13	-33.88	Pass	V
6438.75	152	355	-45.52	-13	-32.52	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.
1249.01	155	248	-54.27	-13	-41.27	Pass	H
1657.31	147	169	-47.30	-13	-34.30	Pass	H
3927.90	149	291	-41.87	-13	-28.87	Pass	H
5975.28	150	129	-37.59	-13	-24.59	Pass	H
6491.31	151	284	-44.71	-13	-31.71	Pass	H
8163.22	146	171	-41.09	-13	-28.09	Pass	H
1201.11	154	241	-56.69	-13	-43.69	Pass	V
1373.21	149	27	-56.93	-13	-43.93	Pass	V
3555.16	150	148	-53.44	-13	-40.44	Pass	V
3808.95	151	168	-44.58	-13	-31.58	Pass	V
5819.39	155	276	-47.94	-13	-34.94	Pass	V
6652.15	146	96	-45.53	-13	-32.53	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.
1254.60	145	114	-52.84	-13	-39.84	Pass	H
1705.19	149	45	-53.30	-13	-40.30	Pass	H
3860.84	147	64	-49.08	-13	-36.08	Pass	H
5947.99	148	295	-48.17	-13	-35.17	Pass	H
6492.20	152	149	-47.09	-13	-34.09	Pass	H
8009.14	149	41	-45.05	-13	-32.05	Pass	H
1249.72	154	99	-59.66	-13	-46.66	Pass	V
1453.94	150	174	-56.72	-13	-43.72	Pass	V
3471.70	148	293	-49.97	-13	-36.97	Pass	V
3788.75	150	69	-46.22	-13	-33.22	Pass	V
5731.98	151	124	-44.10	-13	-31.10	Pass	V
6572.60	151	239	-44.27	-13	-31.27	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.
1373.50	147	35	-59.80	-13	-46.80	Pass	H
1759.35	150	217	-52.76	-13	-39.76	Pass	H
3875.54	151	49	-50.17	-13	-37.17	Pass	H
5835.04	152	333	-41.15	-13	-28.15	Pass	H
6545.22	146	95	-46.67	-13	-33.67	Pass	H
7944.24	155	176	-48.98	-13	-35.98	Pass	H
1224.20	151	291	-51.70	-13	-38.70	Pass	V
1397.95	146	84	-62.97	-13	-49.97	Pass	V
3625.68	150	76	-53.19	-13	-40.19	Pass	V
3935.76	153	308	-51.46	-13	-38.46	Pass	V
5738.46	154	171	-48.54	-13	-35.54	Pass	V
6530.37	152	44	-46.57	-13	-33.57	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.
1328.39	147	191	-59.69	-13	-46.69	Pass	H
1647.62	147	173	-52.51	-13	-39.51	Pass	H
3841.05	154	289	-44.60	-13	-31.60	Pass	H
5897.14	154	137	-38.98	-13	-25.98	Pass	H
6502.98	154	309	-43.39	-13	-30.39	Pass	H
7945.98	147	111	-45.07	-13	-32.07	Pass	H
1247.19	150	296	-50.72	-13	-37.72	Pass	V
1325.68	154	202	-49.88	-13	-36.88	Pass	V
3516.32	149	178	-52.66	-13	-39.66	Pass	V
3818.46	150	192	-48.68	-13	-35.68	Pass	V
5762.14	153	214	-43.82	-13	-30.82	Pass	V
6533.25	148	266	-45.12	-13	-32.12	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.
1408.06	143	138	-56.89	-13	-43.89	Pass	H
1660.34	155	147	-49.64	-13	-36.64	Pass	H
3861.19	142	248	-46.14	-13	-33.14	Pass	H
5925.54	151	266	-45.92	-13	-32.92	Pass	H
6496.00	154	356	-42.37	-13	-29.37	Pass	H
8115.58	158	60	-44.41	-13	-31.41	Pass	H
1237.00	143	41	-56.96	-13	-43.96	Pass	V
1553.00	159	119	-56.14	-13	-43.14	Pass	V
3526.78	153	159	-49.86	-13	-36.86	Pass	V
3765.50	145	322	-52.14	-13	-39.14	Pass	V
5703.94	149	184	-46.40	-13	-33.40	Pass	V
6566.76	141	352	-47.42	-13	-34.42	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.
1316.94	150	262	-58.38	-13	-45.38	Pass	H
1691.50	146	42	-49.45	-13	-36.45	Pass	H
3889.88	150	99	-50.88	-13	-37.88	Pass	H
5858.34	146	266	-47.44	-13	-34.44	Pass	H
6487.61	149	212	-49.93	-13	-36.93	Pass	H
8086.46	151	100	-47.09	-13	-34.09	Pass	H
1166.47	149	93	-56.71	-13	-43.71	Pass	V
1345.47	148	75	-59.01	-13	-46.01	Pass	V
3627.43	147	241	-51.75	-13	-38.75	Pass	V
3934.21	148	187	-52.00	-13	-39.00	Pass	V
5882.87	150	154	-46.84	-13	-33.84	Pass	V
6420.33	150	5	-51.12	-13	-38.12	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.
1409.59	149	28	-59.05	-13	-46.05	Pass	H
1586.33	148	356	-54.90	-13	-41.90	Pass	H
3803.32	148	217	-47.67	-13	-34.67	Pass	H
6001.51	152	24	-40.01	-13	-27.01	Pass	H
6630.99	150	305	-42.13	-13	-29.13	Pass	H
8004.78	153	170	-44.39	-13	-31.39	Pass	H
1224.05	153	46	-58.53	-13	-45.53	Pass	V
1391.57	149	53	-58.91	-13	-45.91	Pass	V
3616.43	153	283	-54.73	-13	-41.73	Pass	V
3888.80	146	285	-49.36	-13	-36.36	Pass	V
5814.89	153	53	-41.08	-13	-28.08	Pass	V
6500.10	149	202	-45.09	-13	-32.09	Pass	V

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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.
1264.90	147	120	-58.76	-13	-45.76	Pass	H
1767.47	155	299	-47.07	-13	-34.07	Pass	H
3929.83	151	274	-47.28	-13	-34.28	Pass	H
5869.00	149	202	-47.15	-13	-34.15	Pass	H
6624.29	152	192	-43.82	-13	-30.82	Pass	H
7927.51	145	17	-40.44	-13	-27.44	Pass	H
1262.36	150	100	-53.17	-13	-40.17	Pass	V
1330.80	149	211	-53.78	-13	-40.78	Pass	V
3608.78	149	150	-50.62	-13	-37.62	Pass	V
3965.51	149	346	-54.11	-13	-41.11	Pass	V
5772.09	147	187	-47.56	-13	-34.56	Pass	V
6512.39	148	20	-51.90	-13	-38.90	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.
1356.36	152	147	-55.45	-13	-41.45	Pass	H
1722.31	147	53	-53.78	-13	-37.85	Pass	H
3767.16	155	274	-44.34	-13	-35.2	Pass	H
5844.79	145	204	-44.48	-13	-30.39	Pass	H
6426.83	151	189	-44.79	-13	-32.24	Pass	H
8039.93	149	315	-40.90	-13	-30.22	Pass	H
1229.32	148	36	-59.55	-13	-44.9	Pass	V
1413.03	150	183	-54.05	-13	-43.63	Pass	V
3567.44	147	204	-45.41	-13	-35.94	Pass	V
3949.68	154	82	-46.61	-13	-36.01	Pass	V
5885.12	148	4	-43.64	-13	-33.75	Pass	V
6544.10	151	95	-46.39	-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.
1302.72	145	246	-52.71	-13	-39.71	Pass	H
1617.78	146	154	-46.77	-13	-33.77	Pass	H
3816.52	152	337	-45.21	-13	-32.21	Pass	H
5867.89	152	295	-45.26	-13	-32.26	Pass	H
6487.98	151	108	-43.17	-13	-30.17	Pass	H
8070.04	148	22	-47.49	-13	-34.49	Pass	H
1277.90	150	356	-52.35	-13	-39.35	Pass	V
1440.14	150	56	-61.31	-13	-48.31	Pass	V
3532.43	152	161	-51.59	-13	-38.59	Pass	V
3734.30	147	269	-52.07	-13	-39.07	Pass	V
5747.75	150	257	-49.32	-13	-36.32	Pass	V
6649.59	154	358	-43.30	-13	-30.30	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 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.
1389.44	153	272	-55.16	-13	-42.16	Pass	H
1715.32	149	175	-44.09	-13	-31.09	Pass	H
3954.05	147	348	-49.21	-13	-36.21	Pass	H
5853.21	147	101	-47.17	-13	-34.17	Pass	H
6498.68	151	62	-46.73	-13	-33.73	Pass	H
7999.67	150	78	-44.26	-13	-31.26	Pass	H
1191.47	150	137	-55.43	-13	-42.43	Pass	V
1378.34	154	53	-55.95	-13	-42.95	Pass	V
3544.10	148	333	-52.37	-13	-39.37	Pass	V
3981.27	146	330	-52.75	-13	-39.75	Pass	V
5916.49	153	230	-46.73	-13	-33.73	Pass	V
6592.98	155	247	-49.64	-13	-36.64	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.
1356.91	147	114	-56.19	-13	-43.19	Pass	H
1706.42	148	61	-51.67	-13	-38.67	Pass	H
3771.82	147	43	-48.29	-13	-35.29	Pass	H
5883.07	153	340	-39.76	-13	-26.76	Pass	H
6525.74	150	173	-46.20	-13	-33.20	Pass	H
7974.34	153	22	-46.31	-13	-33.31	Pass	H
1233.76	155	283	-59.05	-13	-46.05	Pass	V
1395.85	149	330	-55.89	-13	-42.89	Pass	V
3602.21	151	328	-45.34	-13	-32.34	Pass	V
3819.34	146	344	-45.23	-13	-32.23	Pass	V
5766.19	145	205	-44.53	-13	-31.53	Pass	V
6598.37	149	334	-46.75	-13	-33.75	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.
1331.28	152	217	-49.94	-13	-36.94	Pass	H
1756.86	150	241	-50.64	-13	-37.64	Pass	H
3960.81	154	320	-40.47	-13	-27.47	Pass	H
5985.95	150	229	-43.12	-13	-30.12	Pass	H
6500.46	147	100	-46.52	-13	-33.52	Pass	H
8019.98	154	23	-38.76	-13	-25.76	Pass	H
1170.17	151	239	-57.21	-13	-44.21	Pass	V
1454.81	149	340	-58.94	-13	-45.94	Pass	V
3586.67	145	337	-47.16	-13	-34.16	Pass	V
3806.75	152	250	-51.09	-13	-38.09	Pass	V
5883.52	148	247	-48.29	-13	-35.29	Pass	V
6524.40	152	74	-48.98	-13	-35.98	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.
1274.16	149	244	-57.59	-13	-44.59	Pass	H
1635.53	150	34	-52.33	-13	-39.33	Pass	H
3825.38	154	167	-50.20	-13	-37.20	Pass	H
5764.23	149	143	-49.31	-13	-36.31	Pass	H
6558.88	153	128	-46.94	-13	-33.94	Pass	H
7989.56	153	112	-44.06	-13	-31.06	Pass	H
1261.43	147	27	-59.71	-13	-46.71	Pass	V
1469.22	148	359	-54.68	-13	-41.68	Pass	V
3556.70	153	188	-50.58	-13	-37.58	Pass	V
3886.24	151	60	-46.54	-13	-33.54	Pass	V
5881.66	150	286	-43.41	-13	-30.41	Pass	V
6556.23	155	163	-45.03	-13	-32.03	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.
1335.56	146	6	-59.09	-13	-46.09	Pass	H
1779.56	145	5	-50.23	-13	-37.23	Pass	H
3788.21	152	64	-49.30	-13	-36.30	Pass	H
5918.23	152	132	-42.61	-13	-29.61	Pass	H
6501.55	146	196	-46.66	-13	-33.66	Pass	H
8001.57	150	202	-48.48	-13	-35.48	Pass	H
1237.93	150	220	-55.54	-13	-42.54	Pass	V
1367.72	146	183	-65.59	-13	-52.59	Pass	V
3676.64	148	138	-55.04	-13	-42.04	Pass	V
3864.27	145	219	-54.37	-13	-41.37	Pass	V
5803.33	154	112	-54.73	-13	-41.73	Pass	V
6593.30	145	83	-51.52	-13	-38.52	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.
1295.51	151	3	-55.00	-13	-42.00	Pass	H
1668.64	154	246	-51.81	-13	-38.81	Pass	H
3790.86	148	12	-48.85	-13	-35.85	Pass	H
5890.28	149	100	-42.13	-13	-29.13	Pass	H
6453.54	147	304	-46.23	-13	-33.23	Pass	H
7946.56	151	1	-45.67	-13	-32.67	Pass	H
1213.71	146	19	-55.07	-13	-42.07	Pass	V
1365.65	152	276	-54.77	-13	-41.77	Pass	V
3424.68	146	65	-50.78	-13	-37.78	Pass	V
3861.74	150	214	-49.40	-13	-36.40	Pass	V
5701.71	148	279	-46.33	-13	-33.33	Pass	V
6570.63	148	357	-50.09	-13	-37.09	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 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)			
1257.30	146	220	-52.14	-25	-27.14	Pass	H
1732.55	155	220	-46.75	-25	-21.75	Pass	H
3836.60	149	349	-45.32	-25	-20.32	Pass	H
5948.75	149	334	-38.45	-25	-13.45	Pass	H
6470.50	147	356	-42.42	-25	-17.42	Pass	H
8000.20	154	344	-48.72	-25	-23.72	Pass	H
1163.59	152	355	-52.13	-25	-27.13	Pass	V
1384.02	147	278	-61.28	-25	-36.28	Pass	V
3632.14	146	343	-52.48	-25	-27.48	Pass	V
3903.32	154	152	-46.54	-25	-21.54	Pass	V
5751.63	152	350	-42.82	-25	-17.82	Pass	V
6491.35	148	172	-45.66	-25	-20.66	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)			
1318.54	146	218	-54.86	-25	-29.86	Pass	H
1633.45	148	80	-47.86	-25	-22.86	Pass	H
3987.46	154	115	-44.71	-25	-19.71	Pass	H
5975.10	152	194	-40.15	-25	-15.15	Pass	H
6594.89	149	245	-42.57	-25	-17.57	Pass	H
8004.22	151	170	-47.59	-25	-22.59	Pass	H
1172.36	149	259	-57.59	-25	-32.59	Pass	V
1414.43	153	262	-55.44	-25	-30.44	Pass	V
3626.54	147	58	-49.07	-25	-24.07	Pass	V
3753.71	153	327	-47.94	-25	-22.94	Pass	V
5886.26	154	2	-44.49	-25	-19.49	Pass	V
6586.23	147	150	-46.16	-25	-21.16	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)			
1339.46	147	197	-52.14	-25	-27.14	Pass	H
1758.92	150	200	-52.16	-25	-27.16	Pass	H
3951.71	148	359	-45.46	-25	-20.46	Pass	H
5799.00	152	305	-45.12	-25	-20.12	Pass	H
6461.36	155	197	-43.70	-25	-18.70	Pass	H
8143.25	151	316	-40.19	-25	-15.19	Pass	H
1186.25	147	157	-55.78	-25	-30.78	Pass	V
1529.91	150	99	-58.83	-25	-33.83	Pass	V
3535.24	149	146	-52.33	-25	-27.33	Pass	V
3801.63	152	157	-53.30	-25	-28.30	Pass	V
5716.75	148	359	-48.05	-25	-23.05	Pass	V
6647.53	153	53	-45.88	-25	-20.88	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)			
1420.79	152	311	-55.28	-25	-30.28	Pass	H
1774.04	150	346	-49.10	-25	-24.10	Pass	H
3881.13	153	79	-45.66	-25	-20.66	Pass	H
5868.99	152	79	-43.19	-25	-18.19	Pass	H
6505.27	147	303	-45.03	-25	-20.03	Pass	H
8039.21	153	172	-45.25	-25	-20.25	Pass	H
1273.53	146	163	-54.13	-25	-29.13	Pass	V
1434.58	148	72	-61.79	-25	-36.79	Pass	V
3469.13	154	222	-50.81	-25	-25.81	Pass	V
3918.99	155	337	-50.49	-25	-25.49	Pass	V
5743.93	154	191	-49.37	-25	-24.37	Pass	V
6511.92	145	68	-48.26	-25	-23.26	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)		
1237.58	150	110	-52.83	-25	-27.83	Pass	H
1688.27	152	255	-47.20	-25	-22.20	Pass	H
3873.41	147	7	-45.94	-25	-20.94	Pass	H
5814.88	154	162	-43.78	-25	-18.78	Pass	H
6503.40	153	289	-42.81	-25	-17.81	Pass	H
8163.98	146	48	-44.96	-25	-19.96	Pass	H
1137.94	148	131	-56.73	-25	-31.73	Pass	V
1384.01	145	19	-55.43	-25	-30.43	Pass	V
3599.44	152	314	-52.07	-25	-27.07	Pass	V
3739.18	155	17	-47.35	-25	-22.35	Pass	V
5770.04	152	241	-43.95	-25	-18.95	Pass	V
6536.70	145	218	-48.08	-25	-23.08	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)		
1371.51	146	319	-56.59	-25	-31.59	Pass	H
1641.48	151	6	-49.04	-25	-24.04	Pass	H
3818.63	147	136	-42.10	-25	-17.10	Pass	H
5838.17	147	54	-41.14	-25	-16.14	Pass	H
6421.71	154	63	-43.31	-25	-18.31	Pass	H
8059.91	154	2	-43.58	-25	-18.58	Pass	H
1213.52	149	359	-52.78	-25	-27.78	Pass	V
1554.17	147	189	-55.31	-25	-30.31	Pass	V
3631.98	147	119	-52.63	-25	-27.63	Pass	V
3789.95	150	170	-48.85	-25	-23.85	Pass	V
5755.07	151	167	-48.80	-25	-23.80	Pass	V
6471.54	147	273	-45.97	-25	-20.97	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 41 40265 channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1256.48	152	183	-55.53	-25	-30.53	Pass	H
1790.57	153	43	-51.33	-25	-26.33	Pass	H
3887.16	151	301	-44.98	-25	-19.98	Pass	H
5899.68	154	212	-41.13	-25	-16.13	Pass	H
6553.37	145	166	-39.98	-25	-14.98	Pass	H
8170.79	154	190	-42.34	-25	-17.34	Pass	H
1283.47	153	62	-50.97	-25	-25.97	Pass	V
1505.01	146	134	-61.75	-25	-36.75	Pass	V
3460.19	149	90	-51.72	-25	-26.72	Pass	V
3778.76	149	251	-50.41	-25	-25.41	Pass	V
5859.03	151	4	-48.04	-25	-23.04	Pass	V
6628.12	146	353	-43.58	-25	-18.58	Pass	V
Band 41 40740 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1366.58	150	21	-57.69	-25	-32.69	Pass	H
1691.49	147	152	-45.77	-25	-20.77	Pass	H
3878.89	149	190	-45.24	-25	-20.24	Pass	H
5868.01	153	216	-39.53	-25	-14.53	Pass	H
6503.94	146	231	-42.85	-25	-17.85	Pass	H
8028.35	154	144	-41.95	-25	-16.95	Pass	H
1297.28	152	230	-54.92	-25	-29.92	Pass	V
1484.27	151	192	-58.56	-25	-33.56	Pass	V
3456.29	149	300	-48.29	-25	-23.29	Pass	V
3885.53	151	338	-50.13	-25	-25.13	Pass	V
5748.22	151	320	-47.05	-25	-22.05	Pass	V
6504.74	150	327	-47.60	-25	-22.60	Pass	V

Band 41 41215 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1299.51	149	111	-55.08	-25	-30.08	Pass	H
1723.14	151	239	-52.26	-25	-27.26	Pass	H
3808.28	148	134	-47.11	-25	-22.11	Pass	H
5857.44	150	280	-41.43	-25	-16.43	Pass	H
6472.18	151	279	-43.87	-25	-18.87	Pass	H
8127.35	151	194	-45.73	-25	-20.73	Pass	H
1126.82	153	48	-55.20	-25	-30.20	Pass	V
1389.59	152	116	-57.94	-25	-32.94	Pass	V
3562.61	146	282	-52.31	-25	-27.31	Pass	V
3810.63	151	31	-50.27	-25	-25.27	Pass	V
5877.66	148	63	-46.70	-25	-21.70	Pass	V
6478.47	151	191	-44.25	-25	-19.25	Pass	V

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Band 41 40265 channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1361.44	153	332	-56.56	-25	-31.56	Pass	H
1730.07	148	337	-49.30	-25	-24.30	Pass	H
3924.98	152	94	-47.89	-25	-22.89	Pass	H
5910.17	154	271	-40.55	-25	-15.55	Pass	H
6443.28	146	173	-41.03	-25	-16.03	Pass	H
8074.21	154	119	-44.43	-25	-19.43	Pass	H
1107.59	147	246	-54.97	-25	-29.97	Pass	V
1369.66	154	70	-59.70	-25	-34.70	Pass	V
3482.40	150	70	-55.76	-25	-30.76	Pass	V
3885.58	154	258	-53.88	-25	-28.88	Pass	V
5710.75	149	269	-49.53	-25	-24.53	Pass	V
6565.20	151	266	-50.33	-25	-25.33	Pass	V

Band 41 40740 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1235.83	148	122	-56.40	-25	-31.40	Pass	H
1606.52	147	118	-46.18	-25	-21.18	Pass	H
3803.23	146	106	-40.24	-25	-15.24	Pass	H
5937.57	145	65	-43.95	-25	-18.95	Pass	H
6552.09	146	216	-44.36	-25	-19.36	Pass	H
8102.24	150	254	-41.00	-25	-16.00	Pass	H
1122.60	153	302	-50.50	-25	-25.50	Pass	V
1501.16	147	321	-55.58	-25	-30.58	Pass	V
3503.57	149	324	-52.35	-25	-27.35	Pass	V
3810.09	152	202	-49.93	-25	-24.93	Pass	V
5838.84	146	100	-47.37	-25	-22.37	Pass	V
6514.93	154	345	-43.54	-25	-18.54	Pass	V

Band 41 41215 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1368.22	148	231	-54.29	-25	-29.29	Pass	H
1704.19	155	133	-46.60	-25	-21.60	Pass	H
3828.02	153	149	-41.77	-25	-16.77	Pass	H
5885.13	153	293	-40.27	-25	-15.27	Pass	H
6453.42	152	75	-42.99	-25	-17.99	Pass	H
8114.52	154	225	-43.09	-25	-18.09	Pass	H
1130.68	148	80	-52.64	-25	-27.64	Pass	V
1518.78	150	322	-55.43	-25	-30.43	Pass	V
3612.51	149	262	-52.22	-25	-27.22	Pass	V
3843.98	148	251	-51.30	-25	-26.30	Pass	V
5851.29	148	267	-47.72	-25	-22.72	Pass	V
6582.82	148	159	-44.52	-25	-19.52	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	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1404.44	153	99	-53.68	-40	-13.68	Pass	H
1739.23	150	350	-48.06	-40	-8.06	Pass	H
3865.15	149	262	-50.30	-40	-10.30	Pass	H
5856.78	146	346	-40.73	-40	-0.73	Pass	H
6421.33	148	117	-45.79	-40	-5.79	Pass	H
8042.88	153	159	-46.68	-40	-6.68	Pass	H
1128.91	147	213	-50.34	-40	-10.34	Pass	V
1441.58	152	251	-58.18	-40	-18.18	Pass	V
3523.81	148	142	-50.80	-40	-10.80	Pass	V
3862.45	149	112	-45.09	-40	-5.09	Pass	V
5773.85	153	85	-47.16	-40	-7.16	Pass	V
6549.06	155	273	-44.51	-40	-4.51	Pass	V
Band 40A 38750 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1278.82	147	124	-57.06	-40	-17.06	Pass	H
1636.79	152	269	-51.42	-40	-11.42	Pass	H
3830.37	155	8	-50.46	-40	-10.46	Pass	H
5899.76	147	81	-45.86	-40	-5.86	Pass	H
6565.26	149	41	-47.57	-40	-7.57	Pass	H
8149.53	150	316	-42.86	-40	-2.86	Pass	H
1163.33	147	36	-61.33	-40	-21.33	Pass	V
1310.84	145	4	-58.75	-40	-18.75	Pass	V
3442.58	152	112	-49.91	-40	-9.91	Pass	V
3920.50	154	114	-47.87	-40	-7.87	Pass	V
5779.42	146	122	-50.39	-40	-10.39	Pass	V
6420.43	154	61	-44.15	-40	-4.15	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)		
1304.62	153	54	-54.74	-40	-14.74	Pass	H
1820.58	146	344	-48.83	-40	-8.83	Pass	H
3902.40	148	322	-51.52	-40	-11.52	Pass	H
5872.03	154	351	-44.39	-40	-4.39	Pass	H
6423.56	146	33	-44.65	-40	-4.65	Pass	H
7979.97	148	269	-47.11	-40	-7.11	Pass	H
1253.70	152	174	-59.63	-40	-19.63	Pass	V
1284.39	149	312	-62.93	-40	-22.93	Pass	V
3542.34	149	341	-50.73	-40	-10.73	Pass	V
3820.73	153	289	-50.73	-40	-10.73	Pass	V
5747.64	152	261	-48.33	-40	-8.33	Pass	V
6616.63	154	332	-47.25	-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)		
1405.08	154	289	-55.19	-40	-15.19	Pass	H
1761.02	151	239	-49.03	-40	-9.03	Pass	H
3776.63	148	104	-50.05	-40	-10.05	Pass	H
5950.31	155	72	-47.76	-40	-7.76	Pass	H
6479.62	148	78	-47.55	-40	-7.55	Pass	H
7995.16	145	17	-44.05	-40	-4.05	Pass	H
1132.96	150	122	-58.17	-40	-18.17	Pass	V
1417.80	146	110	-58.24	-40	-18.24	Pass	V
3603.10	150	227	-52.82	-40	-12.82	Pass	V
3916.83	155	47	-51.01	-40	-11.01	Pass	V
5887.63	146	270	-49.31	-40	-9.31	Pass	V
6492.20	153.13	349.29	-45.54	-40	-5.54	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)		
1351.43	148	338	-57.58	-40	-17.58	Pass	H
1750.29	150	122	-47.91	-40	-7.91	Pass	H
3945.58	147	25	-52.22	-40	-12.22	Pass	H
5926.17	152	281	-46.76	-40	-6.76	Pass	H
6573.77	151	76	-46.98	-40	-6.98	Pass	H
8155.31	150	278	-46.77	-40	-6.77	Pass	H
1198.17	149	358	-58.01	-40	-18.01	Pass	V
1299.41	154	221	-59.66	-40	-19.66	Pass	V
3483.23	148	44	-50.68	-40	-10.68	Pass	V
3815.77	150	271	-51.65	-40	-11.65	Pass	V
5793.59	153	34	-46.82	-40	-6.82	Pass	V
6617.33	152	22	-44.39	-40	-4.39	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)		
1384.64	153	256	-58.66	-40	-18.66	Pass	H
1732.19	154	243	-48.48	-40	-8.48	Pass	H
3820.98	148	250	-47.38	-40	-7.38	Pass	H
5931.75	150	162	-47.75	-40	-7.75	Pass	H
6454.19	151	234	-46.89	-40	-6.89	Pass	H
8062.34	154	178	-42.23	-40	-2.23	Pass	H
1139.09	145	331	-56.25	-40	-16.25	Pass	V
1456.49	153	156	-58.14	-40	-18.14	Pass	V
3534.64	151	15	-50.08	-40	-10.08	Pass	V
3758.46	148	299	-47.60	-40	-7.60	Pass	V
5738.76	151	8	-45.96	-40	-5.96	Pass	V
6503.39	153	272	-46.34	-40	-6.34	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 (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)					
1406.22	148	266	-52.60	-40	-12.60	Pass	H
1719.44	154	99	-50.51	-40	-10.51	Pass	H
3787.74	152	2	-50.13	-40	-10.13	Pass	H
5883.45	154	44	-42.94	-40	-2.94	Pass	H
6421.37	147	208	-47.31	-40	-7.31	Pass	H
7976.45	151	161	-48.61	-40	-8.61	Pass	H
1171.75	151	197	-57.39	-40	-17.39	Pass	V
1293.95	148	123	-62.45	-40	-22.45	Pass	V
3534.75	151	322	-48.65	-40	-8.65	Pass	V
3904.26	155	33	-51.54	-40	-11.54	Pass	V
5889.92	148	161	-45.34	-40	-5.34	Pass	V
6483.03	145	221	-42.84	-40	-2.84	Pass	V
Band 40B 39200 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)					
1277.39	146	196	-57.45	-40	-17.45	Pass	H
1790.12	152	61	-50.16	-40	-10.16	Pass	H
3885.45	146	216	-48.92	-40	-8.92	Pass	H
5874.89	151	336	-44.35	-40	-4.35	Pass	H
6438.51	145	280	-45.33	-40	-5.33	Pass	H
8032.35	154	103	-46.42	-40	-6.42	Pass	H
1213.92	155	313	-58.60	-40	-18.60	Pass	V
1362.86	148	91	-56.95	-40	-16.95	Pass	V
3507.71	150	229	-50.68	-40	-10.68	Pass	V
3928.78	147	64	-52.71	-40	-12.71	Pass	V
5735.39	149	291	-45.37	-40	-5.37	Pass	V
6531.42	146	79	-46.26	-40	-6.26	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)		
1323.88	145	134	-58.98	-40	-18.98	Pass	H
1688.20	146	341	-51.78	-40	-11.78	Pass	H
3939.58	154	270	-50.34	-40	-10.34	Pass	H
5903.87	155	336	-43.28	-40	-3.28	Pass	H
6577.82	150	357	-47.19	-40	-7.19	Pass	H
7999.70	153	329	-44.49	-40	-4.49	Pass	H
1108.26	148	109	-56.80	-40	-16.80	Pass	V
1332.31	149	343	-59.03	-40	-19.03	Pass	V
3599.72	147	203	-53.02	-40	-13.02	Pass	V
3825.20	146	358	-49.61	-40	-9.61	Pass	V
5779.32	146	134	-46.59	-40	-6.59	Pass	V
6581.75	154	245	-45.00	-40	-5.00	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)		
1402.50	152	213	-52.75	-40	-12.75	Pass	H
1749.83	149	333	-47.46	-40	-7.46	Pass	H
3912.10	148	304	-50.56	-40	-10.56	Pass	H
5837.02	155	204	-44.89	-40	-4.89	Pass	H
6523.46	147	155	-48.16	-40	-8.16	Pass	H
7972.68	155	133	-45.50	-40	-5.50	Pass	H
1207.10	146	59	-59.63	-40	-19.63	Pass	V
1377.62	153	190	-62.33	-40	-22.33	Pass	V
3512.09	154	343	-53.55	-40	-13.55	Pass	V
3874.68	151	101	-49.16	-40	-9.16	Pass	V
5745.96	147	128	-49.06	-40	-9.06	Pass	V
6463.33	149	188	-46.69	-40	-6.69	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)		
1356.86	145	65	-55.51	-40	-15.51	Pass	H
1771.79	146	332	-46.38	-40	-6.38	Pass	H
3765.70	145	326	-47.62	-40	-7.62	Pass	H
5948.01	146	84	-43.59	-40	-3.59	Pass	H
6580.20	146	122	-47.69	-40	-7.69	Pass	H
8031.12	146	184	-45.95	-40	-5.95	Pass	H
1112.48	145	98	-59.90	-40	-19.90	Pass	V
1395.66	145	23	-58.21	-40	-18.21	Pass	V
3554.66	145	169	-53.12	-40	-13.12	Pass	V
3863.53	146	229	-50.32	-40	-10.32	Pass	V
5898.92	145	97	-47.00	-40	-7.00	Pass	V
6465.06	146	24	-48.07	-40	-8.07	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)		
1400.58	150	355	-55.15	-40	-15.15	Pass	H
1738.88	152	62	-51.17	-40	-11.17	Pass	H
3938.28	145	211	-47.88	-40	-7.88	Pass	H
5919.13	153	279	-47.61	-40	-7.61	Pass	H
6583.20	147	90	-49.64	-40	-9.64	Pass	H
8069.90	153	41	-47.72	-40	-7.72	Pass	H
1276.05	152	305	-55.96	-40	-15.96	Pass	V
1407.70	146	296	-59.17	-40	-19.17	Pass	V
3475.15	147	183	-49.44	-40	-9.44	Pass	V
3895.23	153	310	-48.89	-40	-8.89	Pass	V
5763.51	155	161	-51.14	-40	-11.14	Pass	V
6619.47	145	306	-43.13	-40	-3.13	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.
1277.27	141	97	-58.29	-13	-45.29	Pass	H
1768.64	140	257	-51.05	-13	-38.05	Pass	H
3907.29	146	279	-49.05	-13	-36.05	Pass	H
5919.29	154	32	-42.55	-13	-29.55	Pass	H
6548.50	143	359	-45.01	-13	-32.01	Pass	H
8156.51	145	2	-42.01	-13	-29.01	Pass	H
1149.62	145	241	-53.29	-13	-40.29	Pass	V
1466.77	154	45	-55.66	-13	-42.66	Pass	V
3446.71	154	340	-48.86	-13	-35.86	Pass	V
3779.58	156	333	-52.56	-13	-39.56	Pass	V
5874.41	157	66	-50.73	-13	-37.73	Pass	V
6574.37	143	5	-49.02	-13	-36.02	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.
1310.61	150	5	-53.34	-13	-40.34	Pass	H
1770.30	146	129	-49.92	-13	-36.92	Pass	H
3796.31	150	20	-52.58	-13	-39.58	Pass	H
5960.87	146	293	-47.85	-13	-34.85	Pass	H
6393.07	149	338	-49.10	-13	-36.10	Pass	H
8063.97	151	42	-51.35	-13	-38.35	Pass	H
1251.15	149	58	-53.78	-13	-40.78	Pass	V
1393.11	148	29	-56.30	-13	-43.30	Pass	V
3591.26	147	97	-51.64	-13	-38.64	Pass	V
3984.28	148	232	-51.05	-13	-38.05	Pass	V
5871.84	150	224	-49.68	-13	-36.68	Pass	V
6432.53	150	296	-45.98	-13	-32.98	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.
1349.01	147	211	-54.58	-13	-41.58	Pass	H
1576.22	150	24	-54.72	-13	-41.72	Pass	H
3862.81	152	211	-48.38	-13	-35.38	Pass	H
5922.00	149	65	-40.82	-13	-27.82	Pass	H
6600.91	152	356	-42.39	-13	-29.39	Pass	H
7948.70	152	356	-43.15	-13	-30.15	Pass	H
1254.34	153	343	-55.92	-13	-42.92	Pass	V
1350.95	155	280	-54.63	-13	-41.63	Pass	V
3523.06	151	356	-55.52	-13	-42.52	Pass	V
3962.97	153	291	-50.00	-13	-37.00	Pass	V
5783.25	152	17	-43.84	-13	-30.84	Pass	V
6633.59	150	54	-49.39	-13	-36.39	Pass	V

16QAM

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.
1398.75	147	7	-61.49	-13	-48.49	Pass	H
1773.12	151	278	-45.34	-13	-32.34	Pass	H
3822.01	145	146	-50.92	-13	-37.92	Pass	H
5841.37	147	49	-45.48	-13	-32.48	Pass	H
6557.50	154	301	-44.32	-13	-31.32	Pass	H
8076.02	146	156	-43.97	-13	-30.97	Pass	H
1169.76	146	240	-49.63	-13	-36.63	Pass	V
1401.36	148	351	-57.77	-13	-44.77	Pass	V
3540.91	147	74	-52.08	-13	-39.08	Pass	V
4002.24	151	11	-54.03	-13	-41.03	Pass	V
5936.20	147	12	-48.29	-13	-35.29	Pass	V
6524.62	151	54	-50.81	-13	-37.81	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.
1402.28	151	61	-54.67	-13	-41.45	Pass	H
1807.78	149	95	-53.28	-13	-37.85	Pass	H
3952.60	148	89	-50.63	-13	-35.2	Pass	H
5977.32	147	311	-45.40	-13	-30.39	Pass	H
6428.41	154	236	-44.56	-13	-32.24	Pass	H
8147.77	147	255	-42.95	-13	-30.22	Pass	H
1154.16	152	160	-60.49	-13	-44.9	Pass	V
1455.75	151	267	-59.03	-13	-43.63	Pass	V
3465.78	150	71	-46.07	-13	-35.94	Pass	V
3803.84	150	336	-45.41	-13	-36.01	Pass	V
5853.93	145	295	-46.72	-13	-33.75	Pass	V
6508.38	152	194	-44.21	-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.
1336.40	154	356	-53.86	-13	-40.86	Pass	H
1730.62	150	298	-46.29	-13	-33.29	Pass	H
3870.61	148	163	-40.84	-13	-27.84	Pass	H
5828.50	149	286	-43.63	-13	-30.63	Pass	H
6528.78	145	230	-38.38	-13	-25.38	Pass	H
8155.45	154	74	-47.80	-13	-34.80	Pass	H
1223.72	151	19	-53.10	-13	-40.10	Pass	V
1554.37	149	169	-59.45	-13	-46.45	Pass	V
3609.90	150	20	-46.88	-13	-33.88	Pass	V
3826.78	152	150	-52.48	-13	-39.48	Pass	V
5776.38	149	10	-48.95	-13	-35.95	Pass	V
6631.77	152	210	-45.14	-13	-32.14	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 3.7V; Low Voltage LV=DC 3.33V; High Voltage HV=DC 4.07V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

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