TEST REPORT

Test item description:	Medallion Vending Machine
FCC ID:	2BWC5-XCBM771A
Trademark(s):	N/A
Model/Type reference:	XC-BM771-A
Applicant's name:	INVENGO HOLDINGS (HONG KONG) LIMITED
Address:	NO.2-309,2/F CHUNGKING EXPRESS NOS.36 NATHAN ROAD,TSIM SHA TSUI KL CHINA
Manufacturer:	INVENGO HOLDINGS (HONG KONG) LIMITED
Address:	NO.2-309,2/F CHUNGKING EXPRESS NOS.36 NATHAN ROAD,TSIM SHA TSUI KL 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:	Mar. 31, 2026
Sample tested Date:	Mar. 31, 2026 to May. 11, 2026
Issue Date:	May. 11, 2026
Report No.:	CTB26033109001RF02
Test Standards	FCC Part 2, 22, 24E, 27
Test Results	PASS
Remark:	This is LTE radio test report.

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

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. The tested sample(s) and the sample information are provided by the applicant. The authenticity, accuracy, and completeness of the provided information are the sole responsibility of the applicant. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The result decision rules of our laboratory are based solely on the direct comparison between the actual measured values of test results and the standard limits, without considering the measurement uncertainty."★" indicates the testing items were fulfilled by subcontracted lab. "※" indicates the items are not in CNAS accreditation scope.

TABLE OF CONTENT

Test Report Declaration Page
1. VERSION 3
2. TEST SUMMARY 4
3. MEASUREMENT UNCERTAINTY 5
4. PRODUCT INFORMATION AND TEST SETUP 6
4.1 Product Information 6
4.2 Test Setup Configuration 7
4.3 Support Equipment 7
4.4 Test Mode 7
4.5 Test Environment 7
5. TEST FACILITY AND TEST INSTRUMENT USED 8
5.1 Test Facility 8
5.2 Test Instrument Used 8
6. RF EXPOSURE 10
6.1 Standard Applicable 10
6.2 Test Result 10
7. RF OUTPUT POWER 11
7.1 Standard Applicable 11
7.2 Test Procedure 11
7.3 Summary of Test Results/Plots 11
8. PEAK-TO-AVERAGE RATIO (PAR) OF TRANSMITTER 12
8.1 Standard Applicable 12
8.2 Test Procedure 12
8.3 Summary of Test Results 12
9. EMISSION BANDWIDTH 13
9.1 Standard Applicable 13
9.2 Test Procedure 13
9.3 Summary of Test Results/Plots 13
10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL 14
10.1 Standard Applicable 14
10.2 Test Procedure 14
10.3 Summary of Test Results/Plots 15
11. SPURIOUS RADIATED EMISSIONS 16
11.1 Standard Applicable 16
11.2 Test Procedure 17
11.3 Summary of Test Results/Plots 17
12. FREQUENCY STABILITY 33
12.1 Standard Applicable 33
12.2 Test Procedure 33
12.3 Summary of Test Results/Plots 33

(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB26033109001RF02	May. 11, 2026	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

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

3. MEASUREMENT UNCERTAINTY

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

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

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model/Type reference:	XC-BM771-A
Model Description:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	FDD-LTE BAND 2: 1850-1910MHz FDD-LTE BAND 5: 824-849MHz FDD-LTE BAND 7: 2500-2570MHz FDD-LTE BAND 12: 699-716MHz FDD-LTE BAND 17: 704-716MHz
Max. RF output power:	FDD-LTE BAND 2: 21.44 dBm FDD-LTE BAND 5: 22.95 dBm FDD-LTE BAND 7: 22.1 dBm FDD-LTE BAND 12: 23.65 dBm FDD-LTE BAND 17: 23.17 dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	External antenna
Antenna Gain:	FDD-LTE BAND 2: 1.17dBi FDD-LTE BAND 5: 0.39dBi FDD--LTE BAND 7: -3.93dBi FDD--LTE BAND 12: -2.13dBi FDD--LTE BAND 17: -2.75dBi
Ratings:	AC 120V/60Hz

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 5	Low, Middle, High Channels
TM2	FDD-LTE BAND 7	Low, Middle, High Channels
TM3	TDD-LTE BAND 38	Low, Middle, High Channels
TM4	TDD-LTE BAND 40A	Low, Middle, High Channels
TM5	TDD-LTE BAND 40B	Low, Middle, High Channels
TM6	TDD-LTE BAND 41	Low, Middle, High Channels

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(AC):	120V
Normal Temperature(℃)	23
Low Temperature(℃)	0
High Temperature(℃)	40

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

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

FCC Test Firm Registration Number: CN1276

5.2 Test Instrument Used

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

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

6. RF EXPOSURE

6.1 Standard Applicable

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

6.2 Test Result

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

7. RF OUTPUT POWER

7.1 Standard Applicable

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

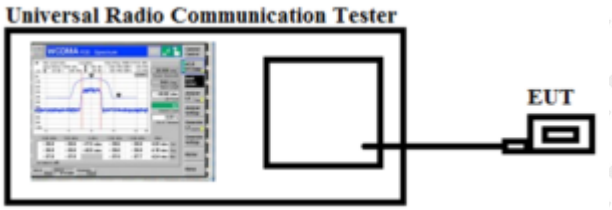
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

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

7.2 Test Procedure

Conducted output power test method:



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

7.3 Summary of Test Results/Plots

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

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

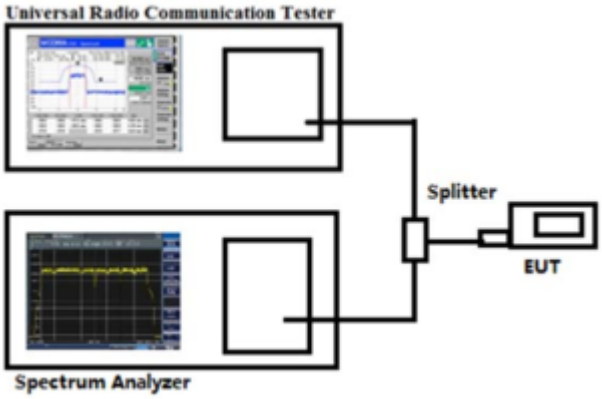
8.1 Standard Applicable

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

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

8.2 Test Procedure

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



8.3 Summary of Test Results

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

Test result: Pass

9. EMISSION BANDWIDTH

9.1 Standard Applicable

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

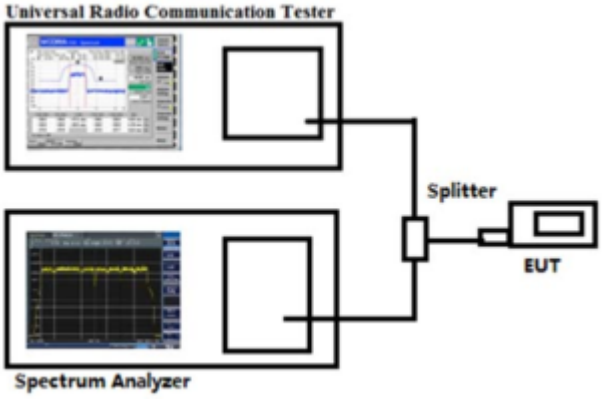
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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

9.2 Test Procedure

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

Test Configuration for the emission bandwidth testing:



9.3 Summary of Test Results/Plots

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

10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

10.1 Standard Applicable

According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

According to §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

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

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

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

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

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

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

According to §27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

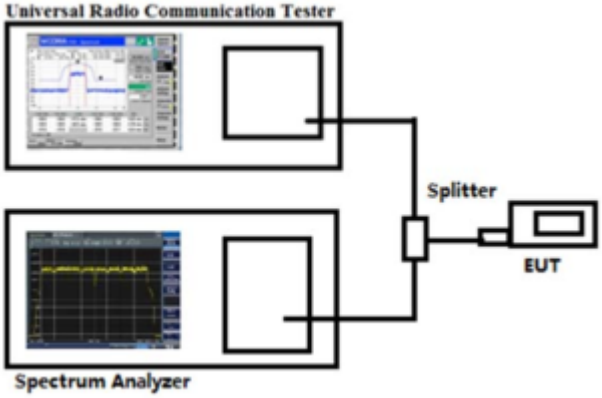
According to §27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside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

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

10.2 Test Procedure

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

Test Configuration for the out of band emissions testing:



10.3 Summary of Test Results/Plots

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

11. SPURIOUS RADIATED EMISSIONS

11.1 Standard Applicable

According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

According to §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

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

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

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

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

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

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

According to §27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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

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

11.2 Test Procedure

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

Spurious attenuation limit in dB =43+10 Log 10 (power out in Watts)

11.3 Summary of Test Results/Plots

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

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.
1336.914	147	256	-57.67	-13	-44.67	Pass	H
1682.429	147	243	-47.41	-13	-34.41	Pass	H
3867.309	148	259	-49.90	-13	-36.90	Pass	H
5926.238	149	28	-46.07	-13	-33.07	Pass	H
6556.935	148	108	-44.79	-13	-31.79	Pass	H
8001.810	147	328	-41.84	-13	-28.84	Pass	H
1181.319	150	16	-54.24	-13	-41.24	Pass	V
1424.907	148	117	-56.57	-13	-43.57	Pass	V
3596.468	147	325	-50.85	-13	-37.85	Pass	V
3900.220	149	302	-51.46	-13	-38.46	Pass	V
5851.915	147	15	-45.52	-13	-32.52	Pass	V
6584.025	147	280	-48.32	-13	-35.32	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.
1334.035	151	14	-54.58	-13	-41.58	Pass	H
1725.114	147	71	-48.80	-13	-35.80	Pass	H
3853.292	150	318	-47.44	-13	-34.44	Pass	H
5927.139	147	56	-42.18	-13	-29.18	Pass	H
6504.833	147	216	-43.49	-13	-30.49	Pass	H
8058.294	151	79	-45.55	-13	-32.55	Pass	H
1191.791	151	65	-57.66	-13	-44.66	Pass	V
1383.036	146	225	-59.64	-13	-46.64	Pass	V
3535.795	149	47	-48.85	-13	-35.85	Pass	V
3854.372	150	73	-47.81	-13	-34.81	Pass	V
5820.741	147	168	-44.02	-13	-31.02	Pass	V
6519.553	150	28	-45.83	-13	-32.83	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.
1334.588	149	165	-53.651	-13	-40.65	Pass	H
1702.091	146	208	-48.956	-13	-35.96	Pass	H
3900.869	146	4	-44.174	-13	-31.17	Pass	H
5890.521	150	198	-41.568	-13	-28.57	Pass	H
6511.016	146	341	-44.165	-13	-31.16	Pass	H
8079.590	150	235	-42.705	-13	-29.71	Pass	H
1204.729	146	292	-54.555	-13	-41.55	Pass	V
1461.572	150	158	-56.609	-13	-43.61	Pass	V
3542.782	149	55	-50.573	-13	-37.57	Pass	V
3830.544	150	319	-48.337	-13	-35.34	Pass	V
5803.017	146	118	-47.459	-13	-34.46	Pass	V
6558.221	150	155	-48.488	-13	-35.49	Pass	V

16QAM

Band 7 20775 channel/BW 5 (lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1335.825	150	78	-56.55	-13	-43.55	Pass	H
1726.285	149	291	-52.97	-13	-39.97	Pass	H
3902.486	151	213	-50.47	-13	-37.47	Pass	H
5858.221	150	89	-46.45	-13	-33.45	Pass	H
6497.692	151	329	-47.86	-13	-34.86	Pass	H
7997.269	148	138	-47.83	-13	-34.83	Pass	H
1219.537	149	99	-57.55	-13	-44.55	Pass	V
1439.397	148	217	-55.34	-13	-42.34	Pass	V
3571.423	150	12	-50.36	-13	-37.36	Pass	V
3835.328	150	137	-48.45	-13	-35.45	Pass	V
5804.448	146	356	-46.43	-13	-33.43	Pass	V
6552.667	146	95	-48.08	-13	-35.08	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.
1295.830	150	142	-57.01	-13	-44.01	Pass	H
1715.462	146	280	-53.75	-13	-40.75	Pass	H
3877.169	150	330	-49.16	-13	-36.16	Pass	H
5866.314	146	194	-44.86	-13	-31.86	Pass	H
6458.405	149	260	-50.57	-13	-37.57	Pass	H
8018.511	151	31	-46.11	-13	-33.11	Pass	H
1233.443	149	4	-54.38	-13	-41.38	Pass	V
1393.811	148	257	-63.29	-13	-50.29	Pass	V
3590.295	147	55	-52.04	-13	-39.04	Pass	V
3914.602	148	273	-53.51	-13	-40.51	Pass	V
5827.383	150	136	-51.79	-13	-38.79	Pass	V
6516.447	150	16	-48.89	-13	-35.89	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.
1337.948	149	156	-57.12	-13	-44.12	Pass	H
1668.740	149	170	-51.84	-13	-38.84	Pass	H
3841.514	149	127	-46.83	-13	-33.83	Pass	H
5911.252	146	42	-42.88	-13	-29.88	Pass	H
6526.565	147	69	-43.27	-13	-30.27	Pass	H
8001.111	151	110	-46.21	-13	-33.21	Pass	H
1256.550	148	61	-53.84	-13	-40.84	Pass	V
1405.030	147	266	-53.72	-13	-40.72	Pass	V
3523.014	148	303	-52.15	-13	-39.15	Pass	V
3907.089	149	195	-46.73	-13	-33.73	Pass	V
5790.819	147	323	-45.35	-13	-32.35	Pass	V
6580.124	146	325	-47.42	-13	-34.42	Pass	V

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.
1335.923	150	78	-55.07	-13	-42.07	Pass	H
1726.041	149	291	-50.38	-13	-37.38	Pass	H
3902.205	151	213	-49.01	-13	-36.01	Pass	H
5856.340	150	89	-44.81	-13	-31.81	Pass	H
6497.289	151	329	-44.34	-13	-31.34	Pass	H
7996.504	148	138	-47.49	-13	-34.49	Pass	H
1218.853	149	99	-55.37	-13	-42.37	Pass	V
1440.383	148	217	-58.29	-13	-45.29	Pass	V
3570.413	150	12	-52.19	-13	-39.19	Pass	V
3836.225	150	137	-48.14	-13	-35.14	Pass	V
5802.271	146	356	-45.27	-13	-32.27	Pass	V
6552.230	146	95	-48.48	-13	-35.48	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.
1296.050	150	142	-56.31	-13	-43.31	Pass	H
1715.369	146	280	-51.81	-13	-38.81	Pass	H
3876.610	150	330	-50.52	-13	-37.52	Pass	H
5867.686	146	194	-45.34	-13	-32.34	Pass	H
6458.449	149	260	-49.16	-13	-36.16	Pass	H
8020.853	151	31	-48.51	-13	-35.51	Pass	H
1235.106	149	4	-53.82	-13	-40.82	Pass	V
1394.738	148	257	-59.09	-13	-46.09	Pass	V
3590.206	147	55	-53.87	-13	-40.87	Pass	V
3915.015	148	273	-50.98	-13	-37.98	Pass	V
5829.043	150	136	-48.55	-13	-35.55	Pass	V
6518.620	150	16	-48.26	-13	-35.26	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.
1340.713	149	156	-56.73	-13	-43.73	Pass	H
1669.900	149	170	-52.00	-13	-39.00	Pass	H
3845.500	149	127	-45.66	-13	-32.66	Pass	H
5906.908	146	42	-40.96	-13	-27.96	Pass	H
6531.650	147	69	-42.47	-13	-29.47	Pass	H
8000.071	151	110	-44.74	-13	-31.74	Pass	H
1257.628	148	61	-56.49	-13	-43.49	Pass	V
1403.175	147	266	-56.84	-13	-43.84	Pass	V
3525.243	148	303	-52.79	-13	-39.79	Pass	V
3912.129	149	195	-48.59	-13	-35.59	Pass	V
5788.308	147	323	-43.05	-13	-30.05	Pass	V
6576.285	146	325	-47.76	-13	-34.76	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.
1333.388	147	256	-58.58	-13	-45.58	Pass	H
1686.285	147	243	-47.50	-13	-34.50	Pass	H
3871.595	148	259	-48.88	-13	-35.88	Pass	H
5922.236	149	28	-44.97	-13	-31.97	Pass	H
6559.259	148	108	-44.23	-13	-31.23	Pass	H
7999.466	147	328	-42.32	-13	-29.32	Pass	H
1179.127	150	16	-52.48	-13	-39.48	Pass	V
1427.446	148	117	-55.56	-13	-42.56	Pass	V
3593.941	147	325	-51.51	-13	-38.51	Pass	V
3904.708	149	302	-51.53	-13	-38.53	Pass	V
5855.285	147	15	-45.36	-13	-32.36	Pass	V
6579.994	147	280	-49.33	-13	-36.33	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.
1333.387	151	14	-54.45	-13	-41.45	Pass	H
1724.842	147	71	-50.85	-13	-37.85	Pass	H
3853.828	150	318	-48.20	-13	-35.20	Pass	H
5927.747	147	56	-43.39	-13	-30.39	Pass	H
6504.467	147	216	-45.24	-13	-32.24	Pass	H
8058.305	151	79	-43.22	-13	-30.22	Pass	H
1191.468	151	65	-57.90	-13	-44.90	Pass	V
1383.042	146	225	-56.63	-13	-43.63	Pass	V
3536.693	149	47	-48.94	-13	-35.94	Pass	V
3855.255	150	73	-49.01	-13	-36.01	Pass	V
5820.512	147	168	-46.75	-13	-33.75	Pass	V
6519.526	150	28	-45.41	-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.
1333.212	149	165	-56.287	-13	-43.29	Pass	H
1703.699	146	208	-49.706	-13	-36.71	Pass	H
3901.055	146	4	-44.234	-13	-31.23	Pass	H
5890.032	150	198	-42.648	-13	-29.65	Pass	H
6509.796	146	341	-41.373	-13	-28.37	Pass	H
8078.278	150	235	-45.896	-13	-32.90	Pass	H
1205.270	146	292	-55.728	-13	-42.73	Pass	V
1461.157	150	158	-59.167	-13	-46.17	Pass	V
3542.135	149	55	-50.175	-13	-37.17	Pass	V
3830.941	150	319	-50.928	-13	-37.93	Pass	V
5802.269	146	118	-48.924	-13	-35.92	Pass	V
6556.507	150	155	-45.845	-13	-32.84	Pass	V

Note:

1) Scan from 9kHz to 25GHz, 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 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.
1368.67	159	118	-57.03	-13	-44.03	Pass	H
1695.01	142	181	-48.81	-13	-35.81	Pass	H
3826.88	153	246	-47.92	-13	-34.92	Pass	H
5830.92	156	316	-44.41	-13	-31.41	Pass	H
6437.85	159	98	-45.17	-13	-32.17	Pass	H
8020.96	148	214	-50.41	-13	-37.41	Pass	H
1176.91	149	81	-56.91	-13	-43.91	Pass	V
1397.47	142	229	-59.95	-13	-46.95	Pass	V
3562.87	155	360	-50.79	-13	-37.79	Pass	V
3833.14	159	59	-48.58	-13	-35.58	Pass	V
5844.64	154	191	-43.36	-13	-30.36	Pass	V
6593.16	145	193	-47.44	-13	-34.44	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.
1339.57	150	39	-56.78	-13	-43.78	Pass	H
1744.84	146	186	-49.05	-13	-36.05	Pass	H
3886.86	150	91	-48.00	-13	-35.00	Pass	H
5839.77	146	120	-44.48	-13	-31.48	Pass	H
6373.76	149	218	-48.87	-13	-35.87	Pass	H
8022.47	151	165	-46.16	-13	-33.16	Pass	H
1294.07	149	154	-51.55	-13	-38.55	Pass	V
1341.49	148	318	-57.31	-13	-44.31	Pass	V
3574.91	147	237	-54.60	-13	-41.60	Pass	V
3920.22	148	67	-52.71	-13	-39.71	Pass	V
5923.52	150	219	-50.01	-13	-37.01	Pass	V
6495.50	150	15	-46.07	-13	-33.07	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.
1361.79	153	141	-53.93	-13	-40.93	Pass	H
1803.43	145	240	-50.89	-13	-37.89	Pass	H
3819.90	144	21	-49.95	-13	-36.95	Pass	H
5775.87	159	5	-46.53	-13	-33.53	Pass	H
6545.99	143	47	-42.36	-13	-29.36	Pass	H
8009.40	158	109	-49.42	-13	-36.42	Pass	H
1261.48	157	100	-53.47	-13	-40.47	Pass	V
1386.62	158	218	-58.92	-13	-45.92	Pass	V
3639.12	153	199	-50.71	-13	-37.71	Pass	V
3888.88	144	93	-50.40	-13	-37.40	Pass	V
5847.13	157	344	-43.72	-13	-30.72	Pass	V
6617.93	154	292	-51.43	-13	-38.43	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.
1226.77	150	319	-55.36	-13	-42.36	Pass	H
1748.89	146	113	-53.58	-13	-40.58	Pass	H
3876.64	150	85	-48.57	-13	-35.57	Pass	H
5929.49	146	164	-44.38	-13	-31.38	Pass	H
6521.39	149	284	-46.25	-13	-33.25	Pass	H
7980.27	151	290	-50.59	-13	-37.59	Pass	H
1302.83	149	276	-53.89	-13	-40.89	Pass	V
1411.82	148	130	-58.68	-13	-45.68	Pass	V
3632.21	147	198	-52.48	-13	-39.48	Pass	V
4002.73	148	187	-52.02	-13	-39.02	Pass	V
5924.91	150	165	-50.37	-13	-37.37	Pass	V
6552.64	150	160	-47.82	-13	-34.82	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.
1390.54	150	311	-55.71	-13	-42.71	Pass	H
1803.40	156	90	-51.85	-13	-38.85	Pass	H
3931.32	157	86	-50.36	-13	-37.36	Pass	H
5870.95	147	93	-43.94	-13	-30.94	Pass	H
6512.21	150	338	-46.83	-13	-33.83	Pass	H
8070.55	146	20	-46.59	-13	-33.59	Pass	H
1135.90	150	154	-54.63	-13	-41.63	Pass	V
1456.81	154	249	-56.30	-13	-43.30	Pass	V
3535.07	150	294	-53.45	-13	-40.45	Pass	V
3924.58	154	85	-47.52	-13	-34.52	Pass	V
5895.85	157	337	-47.10	-13	-34.10	Pass	V
6470.02	150	74	-48.29	-13	-35.29	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.
1199.50	150	142	-57.16	-13	-44.16	Pass	H
1772.42	146	235	-54.38	-13	-41.38	Pass	H
3936.51	150	66	-52.97	-13	-39.97	Pass	H
5928.18	146	180	-43.48	-13	-30.48	Pass	H
6509.81	149	271	-49.19	-13	-36.19	Pass	H
8006.85	151	125	-45.99	-13	-32.99	Pass	H
1245.26	149	275	-52.32	-13	-39.32	Pass	V
1386.98	148	57	-57.99	-13	-44.99	Pass	V
3575.44	147	143	-56.30	-13	-43.30	Pass	V
3962.55	148	325	-48.43	-13	-35.43	Pass	V
5840.36	150	65	-48.13	-13	-35.13	Pass	V
6428.81	150	329	-47.08	-13	-34.08	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 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.
1237.19	150	137	-58.06	-13	-45.06	Pass	H
1684.21	152	83	-51.44	-13	-38.44	Pass	H
3985.86	153	119	-49.37	-13	-36.37	Pass	H
5790.06	148	37	-45.17	-13	-32.17	Pass	H
6567.74	154	303	-44.34	-13	-31.34	Pass	H
8046.43	160	232	-49.53	-13	-36.53	Pass	H
1213.97	158	29	-56.24	-13	-43.24	Pass	V
1371.24	141	193	-59.95	-13	-46.95	Pass	V
3669.63	145	228	-54.21	-13	-41.21	Pass	V
3839.97	152	140	-50.73	-13	-37.73	Pass	V
5835.73	151	36	-46.19	-13	-33.19	Pass	V
6490.06	154	196	-50.31	-13	-37.31	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.
1229.22	150	240	-54.71	-13	-41.71	Pass	H
1693.60	146	250	-51.31	-13	-38.31	Pass	H
3779.06	150	252	-49.29	-13	-36.29	Pass	H
5836.56	146	302	-46.95	-13	-33.95	Pass	H
6456.92	149	15	-52.05	-13	-39.05	Pass	H
7932.30	151	83	-50.21	-13	-37.21	Pass	H
1179.08	149	52	-53.60	-13	-40.60	Pass	V
1396.61	148	319	-60.29	-13	-47.29	Pass	V
3638.52	147	221	-52.42	-13	-39.42	Pass	V
3977.37	148	177	-52.83	-13	-39.83	Pass	V
5821.08	150	205	-50.85	-13	-37.85	Pass	V
6527.28	150	221	-46.64	-13	-33.64	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.
1330.80	148	77	-55.65	-13	-42.65	Pass	H
1650.32	146	71	-51.08	-13	-38.08	Pass	H
3997.21	154	136	-50.94	-13	-37.94	Pass	H
5897.96	156	303	-47.52	-13	-34.52	Pass	H
6544.24	145	105	-46.78	-13	-33.78	Pass	H
7925.74	154	145	-45.61	-13	-32.61	Pass	H
1238.33	143	34	-54.09	-13	-41.09	Pass	V
1426.96	154	222	-58.82	-13	-45.82	Pass	V
3537.53	146	195	-55.08	-13	-42.08	Pass	V
3860.79	152	60	-49.44	-13	-36.44	Pass	V
5846.02	157	107	-44.81	-13	-31.81	Pass	V
6620.35	152	278	-49.71	-13	-36.71	Pass	V

16QAM

Band 12 23017 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1300.38	150	248	-54.84	-13	-41.84	Pass	H
1706.89	146	26	-54.22	-13	-41.22	Pass	H
3879.10	150	250	-48.73	-13	-35.73	Pass	H
5811.14	146	82	-48.29	-13	-35.29	Pass	H
6456.82	149	209	-46.58	-13	-33.58	Pass	H
7939.58	151	246	-46.84	-13	-33.84	Pass	H
1259.68	149	346	-56.09	-13	-43.09	Pass	V
1462.11	148	175	-58.89	-13	-45.89	Pass	V
3627.47	147	348	-55.78	-13	-42.78	Pass	V
3892.44	148	44	-49.85	-13	-36.85	Pass	V
5755.00	150	149	-48.10	-13	-35.10	Pass	V
6483.42	150	24	-47.58	-13	-34.58	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.
1362.45	144	188	-55.33	-13	-42.33	Pass	H
1681.61	142	232	-50.98	-13	-37.98	Pass	H
3974.58	159	6	-48.38	-13	-35.38	Pass	H
5943.16	150	62	-45.27	-13	-32.27	Pass	H
6494.43	142	252	-43.96	-13	-30.96	Pass	H
7919.53	154	42	-46.78	-13	-33.78	Pass	H
1192.05	149	286	-57.90	-13	-44.90	Pass	V
1357.94	149	63	-59.04	-13	-46.04	Pass	V
3640.90	149	26	-54.22	-13	-41.22	Pass	V
3826.87	142	134	-47.07	-13	-34.07	Pass	V
5863.88	157	212	-44.73	-13	-31.73	Pass	V
6512.97	141	113	-48.54	-13	-35.54	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.
1225.43	150	132	-56.10	-13	-43.10	Pass	H
1634.49	146	280	-48.91	-13	-35.91	Pass	H
3879.63	150	104	-53.21	-13	-40.21	Pass	H
5892.48	146	353	-44.48	-13	-31.48	Pass	H
6449.54	149	29	-51.80	-13	-38.80	Pass	H
8058.03	151	310	-50.41	-13	-37.41	Pass	H
1331.16	149	302	-53.41	-13	-40.41	Pass	V
1413.37	148	133	-61.84	-13	-48.84	Pass	V
3644.19	147	150	-52.90	-13	-39.90	Pass	V
3943.84	148	135	-50.21	-13	-37.21	Pass	V
5765.03	150	66	-49.64	-13	-36.64	Pass	V
6518.87	150	62	-47.01	-13	-34.01	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 17 23755 channel/BW5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1333.66	157	137	-57.45	-13	-44.45	Pass	H
1758.09	145	172	-48.41	-13	-35.41	Pass	H
3938.64	153	272	-48.46	-13	-35.46	Pass	H
5938.95	141	183	-42.95	-13	-29.95	Pass	H
6539.32	151	203	-42.42	-13	-29.42	Pass	H
8015.13	155	331	-49.12	-13	-36.12	Pass	H
1201.22	141	346	-56.24	-13	-43.24	Pass	V
1432.24	156	261	-56.43	-13	-43.43	Pass	V
3661.52	156	95	-54.64	-13	-41.64	Pass	V
3869.93	147	42	-50.26	-13	-37.26	Pass	V
5896.93	155	330	-48.12	-13	-35.12	Pass	V
6552.91	146	109	-50.10	-13	-37.10	Pass	V
Band 17 23790 channel/BW5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1201.02	150	40	-54.64	-13	-41.64	Pass	H
1661.88	146	41	-53.40	-13	-40.40	Pass	H
3929.09	150	140	-51.49	-13	-38.49	Pass	H
5907.74	146	330	-46.67	-13	-33.67	Pass	H
6432.13	149	131	-51.51	-13	-38.51	Pass	H
7963.63	151	105	-50.19	-13	-37.19	Pass	H
1178.42	149	246	-52.91	-13	-39.91	Pass	V
1319.40	148	236	-60.54	-13	-47.54	Pass	V
3680.20	147	355	-56.47	-13	-43.47	Pass	V
3884.48	148	179	-50.71	-13	-37.71	Pass	V
5861.69	150	284	-50.82	-13	-37.82	Pass	V
6557.70	150	123	-49.72	-13	-36.72	Pass	V

Band 17 23825 channel/BW5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1356.81	154	347	-54.18	-13	-41.18	Pass	H
1742.58	144	274	-50.01	-13	-37.01	Pass	H
3973.63	154	3	-47.49	-13	-34.49	Pass	H
5880.46	151	322	-45.59	-13	-32.59	Pass	H
6512.75	160	31	-42.79	-13	-29.79	Pass	H
7956.33	147	293	-50.34	-13	-37.34	Pass	H
1135.66	148	155	-56.25	-13	-43.25	Pass	V
1502.01	146	162	-60.76	-13	-47.76	Pass	V
3643.51	152	215	-51.83	-13	-38.83	Pass	V
3807.72	143	38	-49.95	-13	-36.95	Pass	V
5722.06	153	270	-46.08	-13	-33.08	Pass	V
6648.79	152	7	-49.25	-13	-36.25	Pass	V

16QAM

Band 17 23755 channel/BW5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1273.68	150	49	-55.31	-13	-42.31	Pass	H
1740.40	146	257	-52.36	-13	-39.36	Pass	H
3916.55	150	28	-51.36	-13	-38.36	Pass	H
5918.47	146	143	-46.86	-13	-33.86	Pass	H
6414.19	149	81	-49.49	-13	-36.49	Pass	H
8064.04	151	341	-46.89	-13	-33.89	Pass	H
1231.40	149	272	-55.76	-13	-42.76	Pass	V
1490.11	148	208	-57.19	-13	-44.19	Pass	V
3569.59	147	51	-55.89	-13	-42.89	Pass	V
3915.22	148	98	-53.02	-13	-40.02	Pass	V
5828.78	150	214	-46.86	-13	-33.86	Pass	V
6549.17	150	97	-46.67	-13	-33.67	Pass	V

Band 17 23790 channel/BW5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1250.12	140	278	-55.91	-13	-42.91	Pass	H
1654.68	149	297	-51.72	-13	-38.72	Pass	H
3885.39	147	78	-50.01	-13	-37.01	Pass	H
5944.04	142	47	-43.17	-13	-30.17	Pass	H
6587.55	148	237	-46.26	-13	-33.26	Pass	H
7998.63	141	264	-47.01	-13	-34.01	Pass	H
1312.92	150	148	-56.67	-13	-43.67	Pass	V
1464.55	153	297	-59.32	-13	-46.32	Pass	V
3558.17	145	337	-53.58	-13	-40.58	Pass	V
3745.11	154	339	-50.54	-13	-37.54	Pass	V
5714.44	146	313	-46.09	-13	-33.09	Pass	V
6460.27	142	350	-47.92	-13	-34.92	Pass	V
Band 17 23825 channel/BW5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1320.46	150	222	-55.55	-13	-42.55	Pass	H
1732.26	146	292	-51.25	-13	-38.25	Pass	H
3860.56	150	146	-47.85	-13	-34.85	Pass	H
5787.19	146	91	-46.22	-13	-33.22	Pass	H
6489.02	149	255	-49.23	-13	-36.23	Pass	H
7997.62	151	37	-50.96	-13	-37.96	Pass	H
1315.40	149	347	-51.83	-13	-38.83	Pass	V
1409.29	148	51	-61.14	-13	-48.14	Pass	V
3606.10	147	66	-51.79	-13	-38.79	Pass	V
3920.23	148	208	-53.00	-13	-40.00	Pass	V
5821.44	150	77	-47.22	-13	-34.22	Pass	V
6457.86	150	216	-50.56	-13	-37.56	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.

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=AC 120V; Low Voltage LV=AC 108V; High Voltage HV=AC 132V
Please refer to Appendix 2: Frequency Stability
Test result: Pass

※※※※※ END OF REPORT ※※※※※