



TEST REPORT

Product Name: Pet Smart Collar
FCC ID: 2BOEU-PETA
Trademark: Petacola
Model Number: Peta Collar, Peta Collar 001
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Sample Received Date: Feb. 17, 2025
Sample tested Date: Feb. 17, 2025 to Mar. 20, 2025
Issue Date: Mar. 20, 2025
Report No.: CTB25021705401RF01
Test Standards: FCC Part 2, 22, 24E, 27
Test Results: PASS
Remark: This is LTE radio test report.

Compiled by:

Reviewed by:

Approved by:

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

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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
CTB25021705401RF01	Mar. 20, 2025	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

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

3. MEASUREMENT UNCERTAINTY

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

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

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	Peta Collar, Peta Collar 001
Model Description:	All the model are the same circuit and RF module, only the name and appearance are different. Test sample model: Peta Collar
Hardware Version:	H-PC V1.0
Software Version:	S-PC 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 12: 699-716MHz FDD-LTE BAND 13: 777-787MHz TDD-LTE BAND 66: 1710-1780MHz TDD-LTE BAND 71: 663-698MHz
Max. RF output power:	FDD-LTE BAND 2: 23.87dBm FDD-LTE BAND 4: 25.04dBm FDD-LTE BAND 5: 25.13dBm FDD-LTE BAND 12: 24.41dBm FDD-LTE BAND 13: 26.2dBm TDD-LTE BAND 66: 24.23dBm TDD-LTE BAND 71: 26.4dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	FPC antenna
Antenna Gain:	FDD-LTE BAND 2: 4.16 dBi FDD-LTE BAND 4: 1.74 dBi FDD-LTE BAND 5: 3.96 dBi FDD-LTE BAND 12: 2.01 dBi FDD-LTE BAND 13: 7.39 dBi TDD-LTE BAND 66: 1.74 dBi TDD-LTE BAND 71: 1.86 dBi
Ratings:	INPUT: DC 5V 500mA OUTPUT: DC 3.7V 100mA

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

No.	Device Type	Brand	Model	Series No.	Note

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 (QPSK and 16QAM)	Bandwidth(MHz)	Low Frequency(MHz)	Mid Frequency(MHz)	Upper Frequency(MHz)
TM1	FDD-LTE BAND 2	1.4	1850.7	1880	1909.3
		3	1851.5	1880	1908.5
		5	1852.5	1880	1907.5
		10	1855	1880	1905
		15	1857.5	1880	1902.5
		20	1860	1880	1900
TM2	FDD-LTE BAND 4	1.4	1710.7	1732.5	1754.3
		3	1711.5	1732.5	1753.5
		5	1712.5	1732.5	1752.5
		10	1715	1732.5	1750
		15	1717.5	1732.5	1747.5
		20	1720	1732.5	1745
TM3	FDD-LTE BAND 5	1.4	824.7	836.5	848.3
		3	825.5	836.5	847.5
		5	826.5	836.5	846.5
		10	829	836.5	844
TM4	FDD-LTE BAND 12	1.4	699.7	707.5	715.3
		3	700.5	707.5	714.5
		5	701.5	707.5	713.5
		10	704	707.5	711
TM5	FDD-LTE	5	779.5	782	784.5

	BAND 13	10	782		
TM6	FDD-LTE BAND 66	1.4	1710.7	1745	1779.3
		3	1711.5	1745	1778.5
		5	1712.5	1745	1777.5
		10	1715	1745	1775
		15	1717.5	1745	1772.5
		20	1720	1745	1770
TM7	FDD-LTE BAND 71	5	665.5	680.5	695.5
		10	668	680.5	693
		15	670.5	680.5	690.5
		20	673	683	688

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, Xinh 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 until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2025/6/28
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2025/6/28
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2025/6/28
4	Communication test set	R&S	CMW500	108058	V3.5.80	2025/6/28
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/6/28
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2025/6/28
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2025/6/28
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2025/6/28
9	2.4 GHz Filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	/	2025/6/30
10	5 GHz Filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	/	2025/6/30
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2025/6/30
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2025/6/28
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2025/6/28
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/
16	966 chamber	C.R.T.	966	/	/	2027/6/21
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2025/6/28
18	Amplifier	HP	8447E	2945A02747	/	2025/6/28
19	Amplifier	Agilent	8449B	3008A01838	/	2025/6/28
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2025/6/28
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2025/6/28

22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/28
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2025/6/28
26	Amplifier	AEROFLEX	Aeroflex	097	/	2025/6/28
27	Power Metter	KEYSIGHT	N1912AP	N/A	A.05.00	2025/6/28

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.

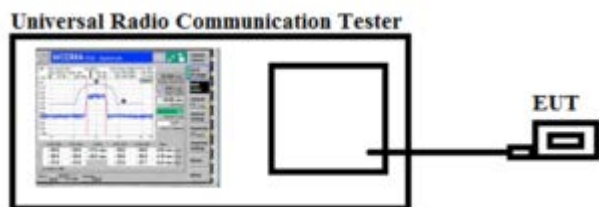
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

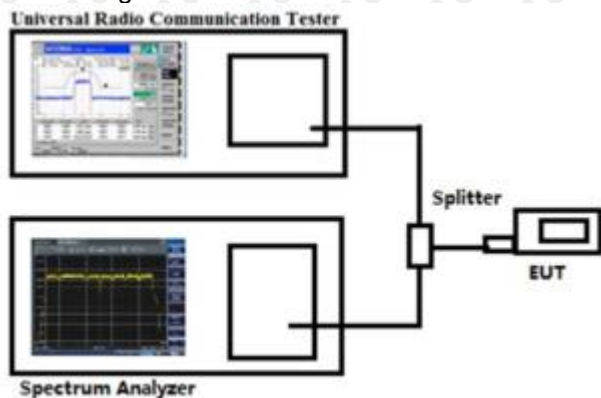
corresponding to the highest PAPR expected during periods of continuous transmission.

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.

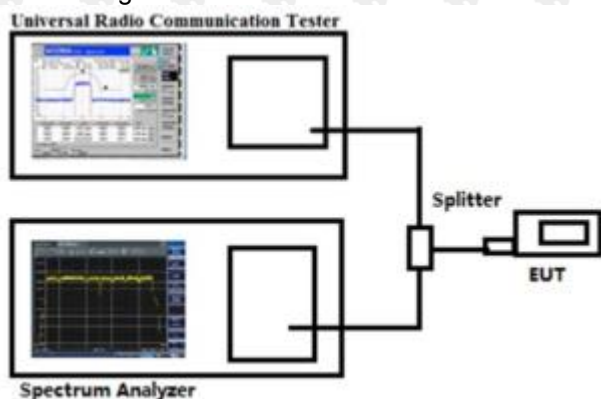
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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: 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.

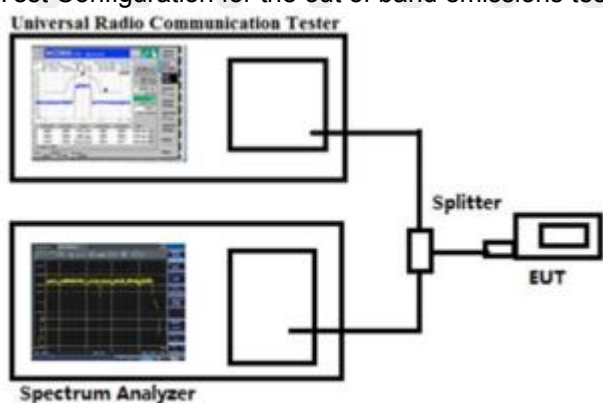
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$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

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 & Out-of-band emissions

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

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.
1372.70	155	269	-55.86	-13	-42.86	Pass	H
1669.15	144	291	-50.50	-13	-37.50	Pass	H
3968.43	160	111	-46.82	-13	-33.82	Pass	H
5958.47	158	87	-45.51	-13	-32.51	Pass	H
6441.77	149	252	-41.49	-13	-28.49	Pass	H
7995.87	144	292	-40.56	-13	-27.56	Pass	H
1114.80	151	114	-52.79	-13	-39.79	Pass	V
1423.30	160	164	-56.54	-13	-43.54	Pass	V
3575.22	145	22	-49.14	-13	-36.14	Pass	V
3921.31	145	246	-49.24	-13	-36.24	Pass	V
5830.21	148	216	-49.12	-13	-36.12	Pass	V
6457.79	142	175	-46.31	-13	-33.31	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.
1199.24	150	249	-54.07	-13	-41.07	Pass	H
1735.88	146	349	-54.31	-13	-41.31	Pass	H
3914.88	150	7	-53.37	-13	-40.37	Pass	H
5898.68	146	33	-45.31	-13	-32.31	Pass	H
6476.02	149	313	-51.72	-13	-38.72	Pass	H
7944.04	151	216	-49.18	-13	-36.18	Pass	H
1185.26	149	169	-54.23	-13	-41.23	Pass	V
1429.27	148	105	-58.88	-13	-45.88	Pass	V
3495.74	147	36	-56.25	-13	-43.25	Pass	V
3872.52	148	148	-48.88	-13	-35.88	Pass	V
5787.61	150	115	-50.73	-13	-37.73	Pass	V
6459.05	150	90	-49.99	-13	-36.99	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.
1292.98	150	144	-56.17	-13	-43.17	Pass	H
1604.69	151	12	-53.40	-13	-40.40	Pass	H
3822.80	146	74	-48.11	-13	-35.11	Pass	H
5811.68	145	58	-41.11	-13	-28.11	Pass	H
6554.34	151	335	-43.38	-13	-30.38	Pass	H
8087.86	154	139	-43.86	-13	-30.86	Pass	H
1163.87	155	233	-54.26	-13	-41.26	Pass	V
1451.07	153	130	-56.75	-13	-43.75	Pass	V
3575.46	151	111	-55.76	-13	-42.76	Pass	V
3839.36	149	269	-50.47	-13	-37.47	Pass	V
5878.69	145	331	-41.31	-13	-28.31	Pass	V
6592.31	149	187	-49.73	-13	-36.73	Pass	V

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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.
1294.31	149	143	-60.43	-13	-47.43	Pass	H
1611.78	145	242	-49.21	-13	-36.21	Pass	H
3955.63	155	21	-50.14	-13	-37.14	Pass	H
5849.98	155	35	-42.85	-13	-29.85	Pass	H
6618.10	146	41	-46.06	-13	-33.06	Pass	H
7958.41	152	140	-39.98	-13	-26.98	Pass	H
1267.47	152	63	-51.18	-13	-38.18	Pass	V
1462.82	146	29	-52.97	-13	-39.97	Pass	V
3567.97	154	214	-52.63	-13	-39.63	Pass	V
3855.34	154	58	-48.67	-13	-35.67	Pass	V
5947.59	149	201	-47.76	-13	-34.76	Pass	V
6676.08	148	260	-47.07	-13	-34.07	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.
1296.55	152	80	-52.40	-13	-41.45	Pass	H
1631.39	150	249	-48.08	-13	-37.85	Pass	H
3883.94	145	97	-45.75	-13	-35.2	Pass	H
5928.51	149	351	-41.68	-13	-30.39	Pass	H
6503.79	146	258	-47.89	-13	-32.24	Pass	H
8132.42	145	67	-44.11	-13	-30.22	Pass	H
1169.75	154	209	-58.65	-13	-44.9	Pass	V
1431.91	153	230	-56.89	-13	-43.63	Pass	V
3537.04	152	6	-51.09	-13	-35.94	Pass	V
3886.76	147	304	-49.34	-13	-36.01	Pass	V
5841.04	147	233	-43.41	-13	-33.75	Pass	V
6494.45	148	288	-43.64	-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.
1398.04	150	217	-58.37	-13	-45.37	Pass	H
1699.05	152	184	-48.72	-13	-35.72	Pass	H
3843.47	152	218	-42.07	-13	-29.07	Pass	H
5880.11	148	304	-40.36	-13	-27.36	Pass	H
6535.87	146	252	-43.60	-13	-30.60	Pass	H
8020.11	154	16	-47.95	-13	-34.95	Pass	H
1146.09	151	151	-58.37	-13	-45.37	Pass	V
1449.02	152	253	-61.81	-13	-48.81	Pass	V
3580.87	149	192	-52.74	-13	-39.74	Pass	V
3748.22	148	72	-48.07	-13	-35.07	Pass	V
5799.57	153	23	-50.20	-13	-37.20	Pass	V
6465.70	151	99	-47.40	-13	-34.40	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.

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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.
1386.81	152	276	-58.96	-13	-45.96	Pass	H
1712.66	153	139	-49.14	-13	-36.14	Pass	H
3809.37	159	93	-44.72	-13	-31.72	Pass	H
5979.96	151	63	-44.13	-13	-31.13	Pass	H
6514.62	151	58	-42.59	-13	-29.59	Pass	H
8087.86	149	79	-44.81	-13	-31.81	Pass	H
1191.35	159	337	-55.98	-13	-42.98	Pass	V
1454.73	146	151	-55.75	-13	-42.75	Pass	V
3482.00	143	289	-52.16	-13	-39.16	Pass	V
3855.16	152	17	-51.09	-13	-38.09	Pass	V
5725.45	149	167	-50.80	-13	-37.80	Pass	V
6559.55	157	351	-46.37	-13	-33.37	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.
1343.66	150	35	-55.03	-13	-42.03	Pass	H
1734.21	146	81	-53.26	-13	-40.26	Pass	H
3965.18	150	172	-49.36	-13	-36.36	Pass	H
5817.02	146	357	-42.64	-13	-29.64	Pass	H
6532.80	149	185	-48.16	-13	-35.16	Pass	H
8020.73	151	173	-46.56	-13	-33.56	Pass	H
1309.65	149	213	-55.16	-13	-42.16	Pass	V
1463.17	148	17	-60.53	-13	-47.53	Pass	V
3524.35	147	14	-52.23	-13	-39.23	Pass	V
3856.67	148	327	-49.58	-13	-36.58	Pass	V
5808.27	150	215	-48.54	-13	-35.54	Pass	V
6435.73	150	217	-48.66	-13	-35.66	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.
1271.74	147	67	-55.29	-13	-42.29	Pass	H
1714.62	149	148	-49.98	-13	-36.98	Pass	H
3938.92	152	30	-45.69	-13	-32.69	Pass	H
5889.51	149	37	-38.87	-13	-25.87	Pass	H
6475.89	147	72	-41.55	-13	-28.55	Pass	H
7949.99	146	308	-42.12	-13	-29.12	Pass	H
1234.63	146	18	-56.97	-13	-43.97	Pass	V
1314.05	153	190	-54.04	-13	-41.04	Pass	V
3500.92	149	84	-54.05	-13	-41.05	Pass	V
3933.45	151	318	-49.27	-13	-36.27	Pass	V
5751.70	147	338	-40.73	-13	-27.73	Pass	V
6616.34	152	217	-46.65	-13	-33.65	Pass	V

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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.
1251.71	153	293	-61.19	-13	-48.19	Pass	H
1675.18	155	261	-46.71	-13	-33.71	Pass	H
3841.25	148	330	-46.87	-13	-33.87	Pass	H
5881.74	150	67	-45.31	-13	-32.31	Pass	H
6594.44	152	275	-42.83	-13	-29.83	Pass	H
7950.55	145	299	-45.05	-13	-32.05	Pass	H
1175.77	153	162	-51.24	-13	-38.24	Pass	V
1346.81	151	328	-54.38	-13	-41.38	Pass	V
3510.79	146	14	-51.80	-13	-38.80	Pass	V
3919.54	153	76	-49.10	-13	-36.10	Pass	V
5781.13	153	132	-44.94	-13	-31.94	Pass	V
6620.88	153	86	-50.31	-13	-37.31	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.
1335.89	153	29	-51.04	-13	-41.45	Pass	H
1662.25	150	94	-52.11	-13	-37.85	Pass	H
3831.29	150	348	-48.44	-13	-35.2	Pass	H
6001.01	146	235	-40.96	-13	-30.39	Pass	H
6597.84	145	231	-47.14	-13	-32.24	Pass	H
8067.07	147	151	-39.28	-13	-30.22	Pass	H
1174.34	150	191	-60.46	-13	-44.9	Pass	V
1290.25	153	22	-55.74	-13	-43.63	Pass	V
3470.57	152	255	-46.87	-13	-35.94	Pass	V
3853.02	150	60	-45.22	-13	-36.01	Pass	V
5745.49	152	286	-47.39	-13	-33.75	Pass	V
6432.01	152	276	-43.14	-13	-32.41	Pass	V
Band 4 20393 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1245.44	151	255	-59.18	-13	-46.18	Pass	H
1651.03	147	64	-46.74	-13	-33.74	Pass	H
3958.72	153	274	-42.51	-13	-29.51	Pass	H
5926.70	145	342	-43.51	-13	-30.51	Pass	H
6589.94	155	78	-42.30	-13	-29.30	Pass	H
8007.26	149	340	-41.90	-13	-28.90	Pass	H
1151.93	154	345	-53.60	-13	-40.60	Pass	V
1424.81	153	40	-56.26	-13	-43.26	Pass	V
3479.14	145	350	-50.70	-13	-37.70	Pass	V
3768.89	154	271	-51.83	-13	-38.83	Pass	V
5715.28	151	228	-45.87	-13	-32.87	Pass	V
6468.11	155	215	-44.12	-13	-31.12	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.

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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.
1250.75	154	252	-57.36	-13	-44.36	Pass	H
1726.31	153	316	-47.00	-13	-34.00	Pass	H
3997.49	154	147	-48.46	-13	-35.46	Pass	H
5846.41	141	115	-46.83	-13	-33.83	Pass	H
6490.67	143	208	-41.67	-13	-28.67	Pass	H
8159.59	157	15	-42.86	-13	-29.86	Pass	H
1178.43	146	358	-52.66	-13	-39.66	Pass	V
1381.83	143	316	-57.33	-13	-44.33	Pass	V
3470.55	145	330	-50.55	-13	-37.55	Pass	V
3874.71	144	234	-50.56	-13	-37.56	Pass	V
5866.30	143	152	-50.22	-13	-37.22	Pass	V
6477.67	154	178	-45.82	-13	-32.82	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.
1213.26	150	112	-58.62	-13	-45.62	Pass	H
1705.27	146	268	-48.94	-13	-35.94	Pass	H
3916.76	150	45	-52.43	-13	-39.43	Pass	H
5878.85	146	317	-47.60	-13	-34.60	Pass	H
6540.70	149	57	-48.81	-13	-35.81	Pass	H
8062.01	151	214	-49.47	-13	-36.47	Pass	H
1219.62	149	199	-56.52	-13	-43.52	Pass	V
1428.89	148	115	-61.23	-13	-48.23	Pass	V
3548.49	147	259	-54.00	-13	-41.00	Pass	V
3948.06	148	107	-48.94	-13	-35.94	Pass	V
5837.29	150	195	-49.86	-13	-36.86	Pass	V
6597.25	150	114	-46.38	-13	-33.38	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.
1273.77	151	8	-57.44	-13	-44.44	Pass	H
1692.85	148	50	-49.87	-13	-36.87	Pass	H
3842.90	154	33	-42.73	-13	-29.73	Pass	H
5808.35	148	216	-42.43	-13	-29.43	Pass	H
6483.42	146	6	-44.77	-13	-31.77	Pass	H
7953.53	151	324	-46.91	-13	-33.91	Pass	H
1338.53	151	11	-58.30	-13	-45.30	Pass	V
1473.13	148	98	-56.17	-13	-43.17	Pass	V
3487.30	154	357	-55.04	-13	-42.04	Pass	V
4010.12	154	344	-46.98	-13	-33.98	Pass	V
5836.95	152	211	-43.52	-13	-30.52	Pass	V
6536.61	150	46	-48.75	-13	-35.75	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.
1251.58	149	168	-56.62	-13	-43.62	Pass	H
1685.08	146	280	-48.74	-13	-35.74	Pass	H
3869.06	151	316	-48.60	-13	-35.60	Pass	H
5930.91	146	305	-45.67	-13	-32.67	Pass	H
6640.91	147	312	-44.33	-13	-31.33	Pass	H
8053.31	149	153	-42.48	-13	-29.48	Pass	H
1103.22	149	223	-53.92	-13	-40.92	Pass	V
1383.93	154	92	-54.90	-13	-41.90	Pass	V
3684.16	146	182	-51.75	-13	-38.75	Pass	V
3857.78	151	54	-50.09	-13	-37.09	Pass	V
5782.35	153	120	-47.73	-13	-34.73	Pass	V
6596.59	154	91	-47.94	-13	-34.94	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.
1306.27	150	356	-54.51	-13	-41.45	Pass	H
1809.38	153	169	-49.39	-13	-37.85	Pass	H
3763.87	148	65	-44.29	-13	-35.2	Pass	H
6000.43	147	141	-46.14	-13	-30.39	Pass	H
6596.22	148	26	-41.99	-13	-32.24	Pass	H
8022.44	153	306	-40.87	-13	-30.22	Pass	H
1091.58	147	339	-58.44	-13	-44.9	Pass	V
1409.93	147	286	-56.09	-13	-43.63	Pass	V
3605.91	150	177	-45.87	-13	-35.94	Pass	V
3854.77	152	174	-48.97	-13	-36.01	Pass	V
5760.41	154	153	-48.98	-13	-33.75	Pass	V
6488.98	146	333	-47.18	-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.
1257.06	147	22	-59.15	-13	-46.15	Pass	H
1613.24	150	182	-48.02	-13	-35.02	Pass	H
3888.33	153	91	-41.25	-13	-28.25	Pass	H
5918.63	147	3	-41.43	-13	-28.43	Pass	H
6480.47	146	357	-37.97	-13	-24.97	Pass	H
7983.89	152	262	-46.51	-13	-33.51	Pass	H
1294.63	150	106	-55.96	-13	-42.96	Pass	V
1550.06	153	9	-55.67	-13	-42.67	Pass	V
3622.42	149	272	-49.29	-13	-36.29	Pass	V
3736.46	147	254	-52.64	-13	-39.64	Pass	V
5794.45	155	171	-49.88	-13	-36.88	Pass	V
6480.73	146	218	-45.62	-13	-32.62	Pass	V

Note:

5) 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.

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

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Band 12 23017 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1267.94	154	249	-59.05	-13	-46.05	Pass	H
1599.82	154	123	-46.00	-13	-33.00	Pass	H
3787.08	155	138	-47.25	-13	-34.25	Pass	H
5934.89	146	147	-42.25	-13	-29.25	Pass	H
6594.76	153	318	-43.06	-13	-30.06	Pass	H
8047.99	151	224	-43.30	-13	-30.30	Pass	H
1108.05	154	7	-51.27	-13	-38.27	Pass	V
1431.00	147	106	-52.96	-13	-39.96	Pass	V
3510.59	148	244	-51.85	-13	-38.85	Pass	V
3844.34	153	341	-49.91	-13	-36.91	Pass	V
5837.65	152	120	-47.43	-13	-34.43	Pass	V
6497.16	153	258	-49.02	-13	-36.02	Pass	V
Band 12 23095 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1292.84	151	352	-53.60	-13	-40.60	Pass	H
1634.56	146	219	-48.80	-13	-35.80	Pass	H
3773.32	146	281	-48.07	-13	-35.07	Pass	H
5981.33	151	244	-41.52	-13	-28.52	Pass	H
6585.87	154	59	-40.94	-13	-27.94	Pass	H
8059.83	149	344	-47.71	-13	-34.71	Pass	H
1253.81	145	187	-55.04	-13	-42.04	Pass	V
1354.47	151	248	-57.64	-13	-44.64	Pass	V
3468.90	146	33	-49.14	-13	-36.14	Pass	V
3793.12	147	161	-45.78	-13	-32.78	Pass	V
5900.32	150	275	-42.43	-13	-29.43	Pass	V
6523.84	146	257	-45.34	-13	-32.34	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.
1255.80	147	317	-53.01	-13	-40.01	Pass	H
1723.70	154	333	-46.18	-13	-33.18	Pass	H
3936.70	147	224	-41.95	-13	-28.95	Pass	H
5818.69	153	306	-43.85	-13	-30.85	Pass	H
6589.72	148	351	-40.19	-13	-27.19	Pass	H
8027.32	145	126	-39.57	-13	-26.57	Pass	H
1164.32	149	50	-57.15	-13	-44.15	Pass	V
1390.98	153	74	-54.22	-13	-41.22	Pass	V
3462.05	149	165	-48.19	-13	-35.19	Pass	V
3899.78	147	188	-50.76	-13	-37.76	Pass	V
5761.05	149	169	-44.88	-13	-31.88	Pass	V
6533.82	150	126	-46.99	-13	-33.99	Pass	V

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Band 12 23017 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1337.01	151	217	-57.45	-13	-44.45	Pass	H
1767.66	149	359	-49.21	-13	-36.21	Pass	H
3986.03	152	263	-53.14	-13	-40.14	Pass	H
5862.51	151	297	-42.61	-13	-29.61	Pass	H
6425.19	153	79	-45.05	-13	-32.05	Pass	H
8042.31	150	305	-49.21	-13	-36.21	Pass	H
1145.89	151	89	-54.00	-13	-41.00	Pass	V
1395.46	149	196	-55.06	-13	-42.06	Pass	V
3614.96	145	354	-48.45	-13	-35.45	Pass	V
3871.23	152	317	-51.19	-13	-38.19	Pass	V
5805.42	148	143	-42.96	-13	-29.96	Pass	V
6464.22	154	309	-45.17	-13	-32.17	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.
1209.93	153	21	-56.21	-13	-43.21	Pass	H
1769.17	149	333	-51.17	-13	-38.17	Pass	H
3936.75	148	194	-48.39	-13	-35.39	Pass	H
5938.96	150	284	-42.71	-13	-29.71	Pass	H
6501.75	155	348	-50.92	-13	-37.92	Pass	H
7922.89	150	347	-43.16	-13	-30.16	Pass	H
1222.66	149	229	-54.02	-13	-41.02	Pass	V
1304.87	154	187	-64.46	-13	-51.46	Pass	V
3616.46	153	44	-48.15	-13	-35.15	Pass	V
3880.43	152	322	-54.82	-13	-41.82	Pass	V
5813.50	152	123	-54.20	-13	-41.20	Pass	V
6423.78	148	227	-47.31	-13	-34.31	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.
1318.99	146	279	-56.99	-13	-43.99	Pass	H
1605.94	154	80	-52.02	-13	-39.02	Pass	H
3840.48	148	31	-45.68	-13	-32.68	Pass	H
5873.84	148	109	-39.30	-13	-26.30	Pass	H
6503.14	152	239	-39.60	-13	-26.60	Pass	H
7922.53	153	235	-47.10	-13	-34.10	Pass	H
1217.71	153	226	-51.96	-13	-38.96	Pass	V
1324.12	150	13	-55.12	-13	-42.12	Pass	V
3431.05	154	95	-48.93	-13	-35.93	Pass	V
3854.77	153	70	-43.09	-13	-30.09	Pass	V
5744.81	148	206	-44.48	-13	-31.48	Pass	V
6529.90	150	126	-46.84	-13	-33.84	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 13 23025 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1319.71	147	252	-54.36	-25	-29.36	Pass	H
1719.17	152	269	-47.95	-25	-22.95	Pass	H
3957.44	146	224	-44.36	-25	-19.36	Pass	H
5983.89	149	129	-42.82	-25	-17.82	Pass	H
6485.03	155	301	-39.76	-25	-14.76	Pass	H
8058.26	154	317	-46.82	-25	-21.82	Pass	H
1139.30	147	173	-51.89	-25	-26.89	Pass	V
1385.30	149	11	-60.22	-25	-35.22	Pass	V
3595.61	152	263	-50.94	-25	-25.94	Pass	V
3889.53	153	46	-50.91	-25	-25.91	Pass	V
5792.04	146	144	-48.22	-25	-23.22	Pass	V
6625.02	148	63	-45.04	-25	-20.04	Pass	V
Band 13 23230 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1286.42	147	134	-54.65	-25	-29.65	Pass	H
1682.65	149	274	-44.70	-25	-19.70	Pass	H
3967.52	155	58	-42.86	-25	-17.86	Pass	H
5892.02	153	324	-41.15	-25	-16.15	Pass	H
6605.03	146	134	-40.56	-25	-15.56	Pass	H
8040.87	148	313	-45.06	-25	-20.06	Pass	H
1233.51	151	299	-53.83	-25	-28.83	Pass	V
1471.65	153	308	-53.20	-25	-28.20	Pass	V
3520.39	153	44	-50.07	-25	-25.07	Pass	V
3806.45	145	219	-51.83	-25	-26.83	Pass	V
5778.56	149	152	-47.65	-25	-22.65	Pass	V
6602.09	151	82	-44.35	-25	-19.35	Pass	V

Band 13 23255 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1427.62	146	14	-55.88	-25	-30.88	Pass	H
1709.85	152	143	-52.64	-25	-27.64	Pass	H
3818.16	147	316	-44.38	-25	-19.38	Pass	H
5904.28	150	6	-44.11	-25	-19.11	Pass	H
6594.20	150	342	-47.02	-25	-22.02	Pass	H
7994.77	151	38	-46.68	-25	-21.68	Pass	H
1162.62	145	263	-53.23	-25	-28.23	Pass	V
1373.90	150	16	-54.68	-25	-29.68	Pass	V
3638.38	153	276	-47.37	-25	-22.37	Pass	V
3904.36	149	103	-52.88	-25	-27.88	Pass	V
5876.20	149	261	-47.55	-25	-22.55	Pass	V
6497.35	146	22	-45.60	-25	-20.60	Pass	V

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Band 13 23025 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1253.17	153	149	-53.71	-25	-28.71	Pass	H
1687.69	154	118	-48.56	-25	-23.56	Pass	H
3902.83	146	242	-44.99	-25	-19.99	Pass	H
5965.26	152	11	-42.40	-25	-17.40	Pass	H
6535.43	153	271	-40.58	-25	-15.58	Pass	H
8134.06	149	47	-46.92	-25	-21.92	Pass	H
1171.50	148	254	-49.85	-25	-24.85	Pass	V
1458.60	149	77	-61.51	-25	-36.51	Pass	V
3461.65	148	121	-53.36	-25	-28.36	Pass	V
3805.40	155	150	-51.06	-25	-26.06	Pass	V
5708.03	149	9	-46.00	-25	-21.00	Pass	V
6529.11	147	188	-48.96	-25	-23.96	Pass	V

Band 13 23230 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1428.69	146	357	-52.53	-25	-27.53	Pass	H
1789.97	150	147	-49.62	-25	-24.62	Pass	H
3954.54	152	20	-41.40	-25	-16.40	Pass	H
5861.78	145	6	-39.43	-25	-14.43	Pass	H
6457.56	146	332	-39.70	-25	-14.70	Pass	H
8132.44	154	126	-43.03	-25	-18.03	Pass	H
1154.02	150	151	-52.12	-25	-27.12	Pass	V
1546.88	150	327	-56.21	-25	-31.21	Pass	V
3577.31	149	305	-50.01	-25	-25.01	Pass	V
3795.41	153	108	-48.18	-25	-23.18	Pass	V
5799.66	149	97	-46.11	-25	-21.11	Pass	V
6646.64	148	264	-46.75	-25	-21.75	Pass	V
Band 13 23255 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1280.88	154	75	-58.59	-25	-33.59	Pass	H
1636.13	153	45	-47.90	-25	-22.90	Pass	H
4002.11	148	302	-42.63	-25	-17.63	Pass	H
5910.06	146	260	-39.20	-25	-14.20	Pass	H
6512.95	151	329	-39.87	-25	-14.87	Pass	H
8011.43	148	56	-45.52	-25	-20.52	Pass	H
1206.21	153	149	-51.42	-25	-26.42	Pass	V
1362.38	145	125	-55.56	-25	-30.56	Pass	V
3528.04	147	86	-54.37	-25	-29.37	Pass	V
3791.48	152	252	-47.22	-25	-22.22	Pass	V
5759.41	150	322	-49.44	-25	-24.44	Pass	V
6486.61	154	128	-49.66	-25	-24.66	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 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.
1284.95	145	226	-56.16	-13	-43.16	Pass	H
1711.18	158	213	-51.11	-13	-38.11	Pass	H
3931.14	144	28	-46.39	-13	-33.39	Pass	H
5907.55	147	29	-46.75	-13	-33.75	Pass	H
6410.16	152	254	-44.42	-13	-31.42	Pass	H
8096.74	156	8	-44.96	-13	-31.96	Pass	H
1216.47	142	157	-56.11	-13	-43.11	Pass	V
1365.43	152	314	-56.41	-13	-43.41	Pass	V
3544.24	147	221	-50.21	-13	-37.21	Pass	V
3882.04	159	135	-48.96	-13	-35.96	Pass	V
5800.76	144	55	-48.12	-13	-35.12	Pass	V
6615.18	157	224	-45.57	-13	-32.57	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.
1395.95	150	321	-54.94	-13	-41.94	Pass	H
1654.60	146	279	-51.57	-13	-38.57	Pass	H
3974.64	150	270	-50.69	-13	-37.69	Pass	H
5931.16	146	336	-43.52	-13	-30.52	Pass	H
6439.49	149	15	-48.63	-13	-35.63	Pass	H
8015.10	151	269	-51.14	-13	-38.14	Pass	H
1187.17	149	247	-56.71	-13	-43.71	Pass	V
1349.32	148	217	-59.53	-13	-46.53	Pass	V
3509.16	147	187	-55.94	-13	-42.94	Pass	V
3856.10	148	256	-51.37	-13	-38.37	Pass	V
5928.34	150	134	-51.23	-13	-38.23	Pass	V
6555.40	150	200	-48.79	-13	-35.79	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.
1364.32	149	249	-56.61	-13	-43.61	Pass	H
1627.01	148	74	-53.27	-13	-40.27	Pass	H
3814.94	151	1	-46.77	-13	-33.77	Pass	H
5930.99	145	195	-43.61	-13	-30.61	Pass	H
6622.32	153	238	-44.82	-13	-31.82	Pass	H
8009.55	149	239	-43.74	-13	-30.74	Pass	H
1167.53	150	360	-58.20	-13	-45.20	Pass	V
1494.21	150	296	-55.80	-13	-42.80	Pass	V
3532.86	152	77	-52.23	-13	-39.23	Pass	V
3884.05	154	46	-49.71	-13	-36.71	Pass	V
5689.64	150	3	-40.77	-13	-27.77	Pass	V
6611.36	153	43	-47.88	-13	-34.88	Pass	V

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Band 66 131979 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1376.43	154	215	-60.51	-13	-47.51	Pass	H
1625.12	149	153	-49.34	-13	-36.34	Pass	H
3860.30	150	258	-49.94	-13	-36.94	Pass	H
5835.89	150	289	-42.63	-13	-29.63	Pass	H
6543.25	149	311	-44.56	-13	-31.56	Pass	H
7916.77	154	45	-41.66	-13	-28.66	Pass	H
1200.50	148	281	-52.42	-13	-39.42	Pass	V
1430.82	152	17	-55.37	-13	-42.37	Pass	V
3618.36	146	341	-51.28	-13	-38.28	Pass	V
3967.65	152	289	-49.87	-13	-36.87	Pass	V
5860.23	149	345	-45.38	-13	-32.38	Pass	V
6581.17	153	82	-48.27	-13	-35.27	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.
1306.07	153	210	-50.90	-13	-41.45	Pass	H
1788.89	153	331	-53.30	-13	-37.85	Pass	H
3878.24	153	44	-45.31	-13	-35.2	Pass	H
5965.54	150	248	-39.65	-13	-30.39	Pass	H
6445.17	155	72	-42.46	-13	-32.24	Pass	H
8045.94	148	181	-39.31	-13	-30.22	Pass	H
1179.04	153	314	-57.94	-13	-44.9	Pass	V
1415.75	150	96	-58.60	-13	-43.63	Pass	V
3541.07	154	33	-51.31	-13	-35.94	Pass	V
3861.99	148	146	-49.23	-13	-36.01	Pass	V
5869.30	150	338	-44.58	-13	-33.75	Pass	V
6522.96	153	247	-42.06	-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.
1423.66	153	201	-54.72	-13	-41.72	Pass	H
1749.76	151	102	-52.57	-13	-39.57	Pass	H
3902.91	146	344	-44.60	-13	-31.60	Pass	H
5924.59	154	199	-45.43	-13	-32.43	Pass	H
6564.91	155	341	-38.26	-13	-25.26	Pass	H
8048.37	152	196	-47.97	-13	-34.97	Pass	H
1269.88	148	41	-55.53	-13	-42.53	Pass	V
1389.85	150	195	-56.29	-13	-43.29	Pass	V
3500.57	151	287	-49.64	-13	-36.64	Pass	V
3802.51	145	3	-52.10	-13	-39.10	Pass	V
5858.60	148	359	-50.06	-13	-37.06	Pass	V
6572.54	154	51	-46.34	-13	-33.34	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.

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Band 71 665.5 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1339.25	160	271	-55.81	-13	-42.81	Pass	H
1671.73	141	204	-50.85	-13	-37.85	Pass	H
3947.47	150	14	-48.32	-13	-35.32	Pass	H
5867.90	151	147	-44.97	-13	-31.97	Pass	H
6556.86	145	259	-45.84	-13	-32.84	Pass	H
8079.56	144	141	-42.21	-13	-29.21	Pass	H
1252.59	156	268	-54.29	-13	-41.29	Pass	V
1464.41	155	89	-59.29	-13	-46.29	Pass	V
3546.82	157	88	-48.28	-13	-35.28	Pass	V
3887.75	150	25	-48.96	-13	-35.96	Pass	V
5794.02	148	250	-49.38	-13	-36.38	Pass	V
6629.21	148	30	-47.27	-13	-34.27	Pass	V
Band 71 668 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1302.69	150	153	-56.69	-13	-43.69	Pass	H
1673.95	146	263	-49.12	-13	-36.12	Pass	H
3852.67	150	245	-52.70	-13	-39.70	Pass	H
5876.84	146	339	-47.56	-13	-34.56	Pass	H
6490.87	149	191	-51.42	-13	-38.42	Pass	H
8093.31	151	20	-46.68	-13	-33.68	Pass	H
1317.94	149	26	-52.30	-13	-39.30	Pass	V
1302.24	148	97	-58.74	-13	-45.74	Pass	V
3640.17	147	43	-51.39	-13	-38.39	Pass	V
4006.73	148	14	-53.42	-13	-40.42	Pass	V
5845.19	150	165	-49.13	-13	-36.13	Pass	V
6496.24	150	351	-47.03	-13	-34.03	Pass	V

Band 71 670.5 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1249.79	149	332	-55.83	-13	-42.83	Pass	H
1732.41	155	293	-51.17	-13	-38.17	Pass	H
3916.93	151	117	-43.79	-13	-30.79	Pass	H
5901.64	155	209	-42.56	-13	-29.56	Pass	H
6471.87	147	69	-41.69	-13	-28.69	Pass	H
8004.31	150	229	-43.39	-13	-30.39	Pass	H
1277.75	149	262	-56.53	-13	-43.53	Pass	V
1456.28	152	211	-56.03	-13	-43.03	Pass	V
3487.80	152	127	-51.83	-13	-38.83	Pass	V
4004.74	146	249	-49.09	-13	-36.09	Pass	V
5720.71	145	228	-43.37	-13	-30.37	Pass	V
6648.97	154	129	-49.57	-13	-36.57	Pass	V

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Band 71 673 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1239.16	150	131	-59.63	-13	-46.63	Pass	H
1685.94	151	199	-45.92	-13	-32.92	Pass	H
3903.63	152	213	-47.28	-13	-34.28	Pass	H
5959.63	151	11	-42.83	-13	-29.83	Pass	H
6517.49	147	85	-44.53	-13	-31.53	Pass	H
7941.12	151	335	-40.26	-13	-27.26	Pass	H
1187.60	148	303	-54.18	-13	-41.18	Pass	V
1432.05	154	49	-55.58	-13	-42.58	Pass	V
3608.48	152	352	-48.76	-13	-35.76	Pass	V
3954.75	150	26	-48.76	-13	-35.76	Pass	V
5857.81	147	211	-45.13	-13	-32.13	Pass	V
6567.66	155	96	-52.32	-13	-39.32	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.

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 5V; Low Voltage LV=DC 4.5V; High Voltage HV=DC 5.5V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

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