TEST REPORT

Product Name:	4G Security Camera
FCC ID:	2AP4M-C23CN
Trademark:	N/A
Model Number:	C6, See the next page for other series models.
Prepared For:	SHENZHEN SECULINK TECHNOLOGYCO.,LTD
Address:	Room 4B04, 4th Floor, Building 3, Phase I, Tian'an Yungu Industrial Park, Bantian Street, Longgang District, Shenzhen, China
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Prepared By:	Shenzhen CTB Testing Technology Co., Ltd.
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Sample Received Date:	Apr. 09, 2024
Sample tested Date:	Apr. 09, 2024 to Apr. 24, 2024
Issue Date:	Apr. 24, 2024
Report No.:	CTB240424024RFX
Test Standards	FCC Part 2, 22, 24E, 27
Test Results	PASS
Remark:	This is LTE radio test report.

Compiled by:	Reviewed by:	Approved by:
Zhou Kui	Arron Liu	Bin Mei
Zhou Kui	Arron Liu	Bin Mei / Director

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

Other series models:

C6HK, C6C, C6H, C6HK-4G, C6C-4G, C6H-4G, C6C-PRO, C6C-PRO, C15, C15SN-4G, C15-4G, C15HN, C15-4GMAX, C15MAX, C16HN-4G-Zoom, C15SN-4G, C15SN-4G MAX, C16HN-4G, C16CN-4G, C30, C30CN, C30CN-4G, C30HN, C30HN-4G, C31, C31CN, C31CN-4G, C31HN, C31HN-4G, C26, C26CN, C216HN, C26HN--4G-Zoomm, C26HN-Zoom, C12HN, C12HN-4G, C12HM-4G, C12, C12CN, C12C, C12HM, C12C-4G, C17, C17LN, C17LN-4G, C17CN, C17CN-4G, C17HLN, C17HLN-4G, C17XN, C17XN-4G, C17HN, C17HN-4G, C16, C16HN-4G, C16HN, C16HN-MAX, C13CN, C13CN-4G, C16HN

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(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB240424024RFX	Apr. 24, 2024	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

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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(s):	C6, See page 2 for other series models.
Model Description:	All the model are the same circuit and RF module, only different for model name. Test sample model: C6
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	FDD-LTE BAND 2: 1850-1910MHz FDD-LTE BAND 4: 1710-1755MHz FDD-LTE BAND 5: 824-849MHz FDD-LTE BAND 7: 2500-2570MHz
Max. RF output power:	FDD-LTE BAND 2: 21.95dBm FDD-LTE BAND 4: 22.93dBm FDD-LTE BAND 5: 23.08dBm FDD-LTE BAND 7: 24.1dBm
Type of Modulation:	QPSK, 16QAM
Antenna Gain:	FDD-LTE BAND 2: 0.98dBi FDD-LTE BAND 4: 1.13dBi FDD-LTE BAND 5: 2.2dBi FDD-LTE BAND 7: 0.6dBi
Ratings:	DC 12V

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
1.	Laptop	DELL	Vostro 5490	N/A	N/A
2.	Router	Huawei	AX2 Pro	/	/
3.	Battery	JUXIANG	6-QW-45(430)-C	/	/

Notes:

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

4.4 Test Mode

Test Mode List		
Test Mode	Description	Remark
TM1	FDD-LTE BAND 2	Low, Middle, High Channels
TM2	FDD-LTE BAND 4	Low, Middle, High Channels
TM3	FDD-LTE BAND 5	Low, Middle, High Channels
TM4	FDD-LTE BAND 7	Low, Middle, High Channels

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	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.

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	2024.07.05
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2024.07.05
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2024.07.05
4	Communication test set	R&S	CMW500	108058	V3.5.80	2024.07.05
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2024.07.05
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2024.07.05
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2024.07.05
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 （E1962B ）	2024.07.06
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	/	2024.07.05
10	5 GHz Filter	Shenxiang	MSF5150-5850MS-1155	20181015001	/	2024.07.06
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2024.07.06
12	BT&WI-FI Automatic test software	Micowave	MTS8000	Ver. 2.0.0.0	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2024.10.30
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2024.07.05
15	234G Automatic test software	Micowave	MTS8200	Ver. 2.0.0.0	/	/
16	966 chamber	C.R.T.	966	/	/	2024.08.11
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 （104489/003）	2024.07.05
18	Amplifier	HP	8447E	2945A02747	/	2024.07.05
19	Amplifier	Agilent	8449B	3008A01838	/	2024.07.05
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2024.07.08
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2024.07.08

22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2024.07.08
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2024.10.30
26	Amplifier	AEROFLEX	Aeroflex	097	/	2024.07.05

6. RF EXPOSURE

6.1 Standard Applicable

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

6.2 Test Result

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

7. RF OUTPUT POWER

7.1 Standard Applicable

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

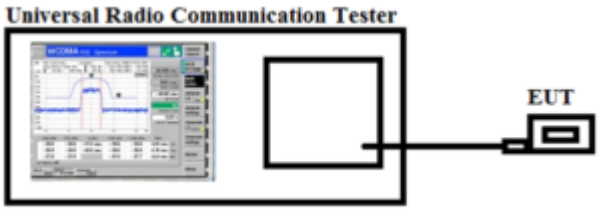
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

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

7.2 Test Procedure

Conducted output power test method:



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

7.3 Summary of Test Results/Plots

Please refer to Appendix 1: Conducted output power

Test result: Pass

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

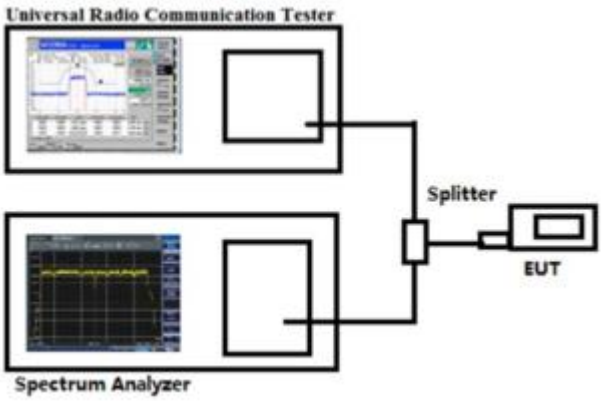
8.1 Standard Applicable

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

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

8.2 Test Procedure

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



8.3 Summary of Test Results

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

Test result: Pass

9. EMISSION BANDWIDTH

9.1 Standard Applicable

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

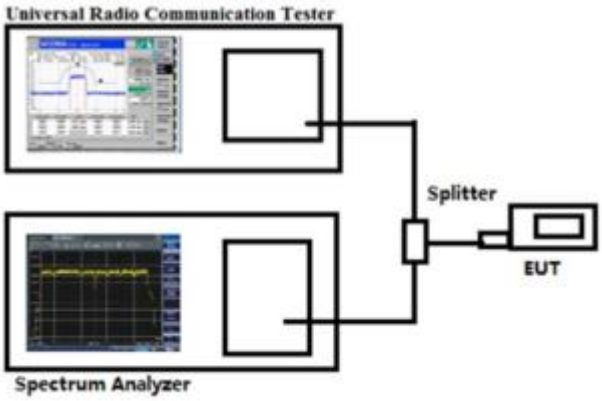
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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

9.2 Test Procedure

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

Test Configuration for the emission bandwidth testing:



9.3 Summary of Test Results/Plots

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

10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

10.1 Standard Applicable

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

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

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

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

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

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

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

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

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

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

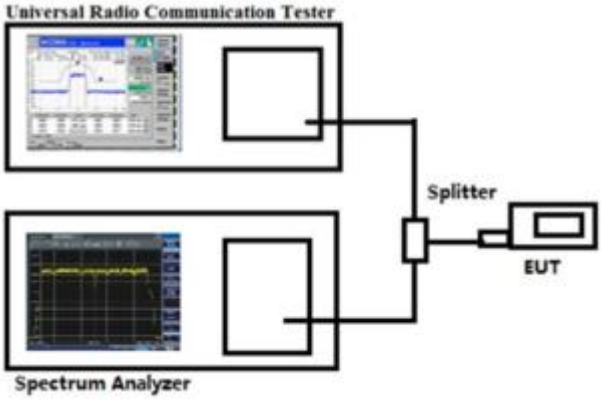
According to §27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside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

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

10.2 Test Procedure

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

Test Configuration for the out of band emissions testing:



10.3 Summary of Test Results/Plots

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

11. SPURIOUS RADIATED EMISSIONS

11.1 Standard Applicable

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

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

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

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

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

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

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

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

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

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

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

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

11.2 Test Procedure

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

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

11.3 Summary of Test Results/Plots

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

Test Data:
QPSK

Band 2 18607 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1338.21	156	322	-55.04	-13	-42.04	Pass	H
1755.30	145	66	-50.14	-13	-37.14	Pass	H
3970.14	151	3	-47.08	-13	-34.08	Pass	H
5926.92	154	237	-46.91	-13	-33.91	Pass	H
6581.43	155	317	-44.05	-13	-31.05	Pass	H
8016.13	146	276	-41.35	-13	-28.35	Pass	H
1204.59	142	172	-53.56	-13	-40.56	Pass	V
1430.91	155	110	-57.05	-13	-44.05	Pass	V
3513.17	155	211	-52.03	-13	-39.03	Pass	V
3904.55	158	50	-49.93	-13	-36.93	Pass	V
5854.88	154	155	-46.85	-13	-33.85	Pass	V
6564.04	159	313	-48.92	-13	-35.92	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.
1288.80	150	73	-53.73	-13	-40.73	Pass	H
1772.45	146	168	-54.56	-13	-41.56	Pass	H
3895.51	150	342	-48.72	-13	-35.72	Pass	H
5785.13	146	155	-42.39	-13	-29.39	Pass	H
6372.00	149	204	-49.10	-13	-36.10	Pass	H
8100.89	151	67	-46.11	-13	-33.11	Pass	H
1209.43	149	266	-53.48	-13	-40.48	Pass	V
1472.18	148	229	-56.13	-13	-43.13	Pass	V
3606.05	147	323	-52.78	-13	-39.78	Pass	V
3916.41	148	108	-50.00	-13	-37.00	Pass	V
5776.18	150	22	-49.39	-13	-36.39	Pass	V
6528.18	150	99	-50.51	-13	-37.51	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.
1347.87	152	341	-56.42	-13	-43.42	Pass	H
1693.74	154	227	-50.63	-13	-37.63	Pass	H
3889.19	149	103	-45.00	-13	-32.00	Pass	H
5972.36	148	159	-38.47	-13	-25.47	Pass	H
6497.60	154	12	-40.87	-13	-27.87	Pass	H
8008.43	155	199	-42.60	-13	-29.60	Pass	H
1316.83	148	357	-58.43	-13	-45.43	Pass	V
1441.66	153	47	-59.09	-13	-46.09	Pass	V
3425.82	152	287	-50.38	-13	-37.38	Pass	V
3855.53	154	237	-48.51	-13	-35.51	Pass	V
5816.17	149	337	-40.79	-13	-27.79	Pass	V
6511.07	149	312	-48.70	-13	-35.70	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.
1309.68	152	164	-58.74	-13	-45.74	Pass	H
1602.97	145	319	-47.21	-13	-34.21	Pass	H
3792.14	151	333	-47.41	-13	-34.41	Pass	H
6022.19	149	191	-42.78	-13	-29.78	Pass	H
6552.79	145	243	-44.93	-13	-31.93	Pass	H
7907.06	145	215	-45.26	-13	-32.26	Pass	H
1079.75	154	322	-53.00	-13	-40.00	Pass	V
1459.67	153	211	-56.07	-13	-43.07	Pass	V
3539.67	150	339	-51.79	-13	-38.79	Pass	V
3964.79	155	97	-49.42	-13	-36.42	Pass	V
5874.70	154	246	-44.72	-13	-31.72	Pass	V
6562.49	152	91	-49.80	-13	-36.80	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.
1308.27	146	227	-51.87	-13	-41.45	Pass	H
1747.97	147	216	-52.97	-13	-37.85	Pass	H
3928.15	154	24	-45.85	-13	-35.2	Pass	H
6010.86	146	186	-43.57	-13	-30.39	Pass	H
6501.23	151	274	-45.27	-13	-32.24	Pass	H
8126.90	149	257	-42.15	-13	-30.22	Pass	H
1212.30	146	2	-54.85	-13	-44.9	Pass	V
1375.22	149	105	-59.60	-13	-43.63	Pass	V
3551.38	153	146	-51.34	-13	-35.94	Pass	V
3758.34	153	35	-50.71	-13	-36.01	Pass	V
5731.22	149	164	-42.87	-13	-33.75	Pass	V
6504.95	148	87	-44.59	-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.
1296.06	155	4	-55.16	-13	-42.16	Pass	H
1636.85	154	27	-48.66	-13	-35.66	Pass	H
3872.38	153	209	-42.82	-13	-29.82	Pass	H
5909.94	150	329	-40.05	-13	-27.05	Pass	H
6503.74	147	241	-42.36	-13	-29.36	Pass	H
8152.39	149	227	-42.65	-13	-29.65	Pass	H
1302.63	147	338	-53.42	-13	-40.42	Pass	V
1417.69	154	76	-61.09	-13	-48.09	Pass	V
3579.03	154	242	-50.79	-13	-37.79	Pass	V
3892.34	152	168	-48.35	-13	-35.35	Pass	V
5878.23	145	359	-49.11	-13	-36.11	Pass	V
6568.85	148	284	-45.52	-13	-32.52	Pass	V

Note:

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

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

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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.
1431.43	145	129	-58.09	-13	-45.09	Pass	H
1747.57	157	354	-47.40	-13	-34.40	Pass	H
3865.34	147	246	-48.37	-13	-35.37	Pass	H
5858.83	142	265	-42.11	-13	-29.11	Pass	H
6499.68	155	227	-42.87	-13	-29.87	Pass	H
8065.87	148	324	-44.31	-13	-31.31	Pass	H
1152.56	147	286	-53.83	-13	-40.83	Pass	V
1560.66	145	214	-57.65	-13	-44.65	Pass	V
3576.75	140	352	-51.19	-13	-38.19	Pass	V
3801.83	158	221	-53.48	-13	-40.48	Pass	V
5789.41	142	343	-48.28	-13	-35.28	Pass	V
6529.76	153	127	-49.10	-13	-36.10	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.
1221.79	150	3	-55.96	-13	-42.96	Pass	H
1685.12	146	190	-53.84	-13	-40.84	Pass	H
3943.79	150	110	-50.54	-13	-37.54	Pass	H
5914.40	146	148	-46.25	-13	-33.25	Pass	H
6541.33	149	348	-48.28	-13	-35.28	Pass	H
7998.85	151	43	-49.33	-13	-36.33	Pass	H
1295.98	149	330	-56.56	-13	-43.56	Pass	V
1449.32	148	275	-57.28	-13	-44.28	Pass	V
3577.65	147	91	-54.56	-13	-41.56	Pass	V
3965.57	148	186	-52.21	-13	-39.21	Pass	V
5784.01	150	267	-51.31	-13	-38.31	Pass	V
6559.44	150	270	-50.06	-13	-37.06	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.
1255.94	148	150	-57.55	-13	-44.55	Pass	H
1593.87	151	70	-54.70	-13	-41.70	Pass	H
3927.90	145	243	-43.36	-13	-30.36	Pass	H
5899.02	146	225	-40.37	-13	-27.37	Pass	H
6471.18	153	313	-39.67	-13	-26.67	Pass	H
7940.14	150	37	-42.56	-13	-29.56	Pass	H
1195.20	148	173	-55.96	-13	-42.96	Pass	V
1437.22	147	145	-55.42	-13	-42.42	Pass	V
3567.34	145	82	-51.67	-13	-38.67	Pass	V
3872.01	147	100	-50.55	-13	-37.55	Pass	V
5768.29	148	25	-45.55	-13	-32.55	Pass	V
6499.37	145	73	-47.28	-13	-34.28	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.
1392.25	148	206	-59.48	-13	-46.48	Pass	H
1664.80	148	239	-45.88	-13	-32.88	Pass	H
3839.68	154	12	-50.93	-13	-37.93	Pass	H
5976.47	146	199	-47.93	-13	-34.93	Pass	H
6539.15	149	83	-46.75	-13	-33.75	Pass	H
8046.85	149	176	-44.69	-13	-31.69	Pass	H
1128.40	154	196	-51.57	-13	-38.57	Pass	V
1418.89	153	251	-54.77	-13	-41.77	Pass	V
3672.18	148	268	-52.03	-13	-39.03	Pass	V
3831.79	145	325	-48.82	-13	-35.82	Pass	V
5875.79	153	151	-44.54	-13	-31.54	Pass	V
6550.28	150	333	-50.21	-13	-37.21	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.
1282.96	149	306	-53.15	-13	-41.45	Pass	H
1780.02	145	45	-50.12	-13	-37.85	Pass	H
3898.45	154	234	-47.44	-13	-35.2	Pass	H
5910.78	151	84	-39.96	-13	-30.39	Pass	H
6526.82	146	59	-46.30	-13	-32.24	Pass	H
8034.16	146	7	-40.51	-13	-30.22	Pass	H
1238.60	149	81	-54.33	-13	-44.9	Pass	V
1445.60	149	106	-57.06	-13	-43.63	Pass	V
3511.28	146	331	-50.33	-13	-35.94	Pass	V
3844.88	149	78	-49.85	-13	-36.01	Pass	V
5871.15	148	145	-48.08	-13	-33.75	Pass	V
6562.55	152	25	-46.27	-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.
1252.43	153	37	-58.69	-13	-45.69	Pass	H
1802.45	149	354	-49.78	-13	-36.78	Pass	H
3962.02	152	329	-44.29	-13	-31.29	Pass	H
5938.90	146	119	-45.33	-13	-32.33	Pass	H
6553.17	154	107	-42.87	-13	-29.87	Pass	H
8137.28	149	270	-48.72	-13	-35.72	Pass	H
1245.27	150	208	-55.70	-13	-42.70	Pass	V
1527.78	149	258	-56.74	-13	-43.74	Pass	V
3461.57	153	354	-51.69	-13	-38.69	Pass	V
3873.23	151	129	-49.34	-13	-36.34	Pass	V
5802.92	147	210	-51.38	-13	-38.38	Pass	V
6653.53	146	213	-43.26	-13	-30.26	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.
1402.65	160	94	-58.05	-13	-45.05	Pass	H
1738.73	141	3	-48.35	-13	-35.35	Pass	H
3951.96	143	296	-44.80	-13	-31.80	Pass	H
5967.04	150	310	-45.09	-13	-32.09	Pass	H
6554.69	155	143	-43.27	-13	-30.27	Pass	H
8154.99	154	120	-44.21	-13	-31.21	Pass	H
1275.03	145	172	-56.41	-13	-43.41	Pass	V
1489.65	145	96	-58.87	-13	-45.87	Pass	V
3566.52	142	210	-49.27	-13	-36.27	Pass	V
3735.81	154	218	-51.67	-13	-38.67	Pass	V
5838.39	155	281	-50.52	-13	-37.52	Pass	V
6550.14	144	228	-45.92	-13	-32.92	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.
1253.27	150	148	-57.65	-13	-44.65	Pass	H
1791.54	146	356	-50.15	-13	-37.15	Pass	H
3809.32	150	96	-49.98	-13	-36.98	Pass	H
5780.03	146	173	-42.72	-13	-29.72	Pass	H
6423.97	149	123	-49.32	-13	-36.32	Pass	H
8009.40	151	117	-50.60	-13	-37.60	Pass	H
1214.44	149	286	-53.23	-13	-40.23	Pass	V
1354.32	148	173	-61.41	-13	-48.41	Pass	V
3492.57	147	92	-53.53	-13	-40.53	Pass	V
3862.27	148	187	-50.60	-13	-37.60	Pass	V
5882.86	150	302	-48.19	-13	-35.19	Pass	V
6527.99	150	25	-46.44	-13	-33.44	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.
1321.93	147	232	-54.75	-13	-41.75	Pass	H
1617.72	154	28	-53.42	-13	-40.42	Pass	H
3941.25	146	78	-43.70	-13	-30.70	Pass	H
5867.00	145	325	-42.04	-13	-29.04	Pass	H
6491.62	146	49	-39.75	-13	-26.75	Pass	H
7979.78	152	200	-42.30	-13	-29.30	Pass	H
1209.94	150	356	-57.81	-13	-44.81	Pass	V
1346.61	149	323	-55.27	-13	-42.27	Pass	V
3483.59	146	59	-52.00	-13	-39.00	Pass	V
3842.17	154	201	-50.52	-13	-37.52	Pass	V
5731.02	149	76	-41.89	-13	-28.89	Pass	V
6492.40	146	160	-46.88	-13	-33.88	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.
1319.68	146	304	-56.25	-13	-43.25	Pass	H
1700.36	148	262	-44.51	-13	-31.51	Pass	H
3935.84	153	187	-50.83	-13	-37.83	Pass	H
6006.32	147	6	-47.35	-13	-34.35	Pass	H
6546.99	154	311	-44.83	-13	-31.83	Pass	H
8071.77	153	13	-45.02	-13	-32.02	Pass	H
1179.20	147	9	-51.77	-13	-38.77	Pass	V
1359.97	152	219	-57.33	-13	-44.33	Pass	V
3616.04	146	165	-52.45	-13	-39.45	Pass	V
3923.38	145	8	-51.81	-13	-38.81	Pass	V
5760.51	147	162	-45.93	-13	-32.93	Pass	V
6509.88	147	197	-46.81	-13	-33.81	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.
1358.17	152	163	-54.12	-13	-41.12	Pass	H
1657.60	151	180	-46.94	-13	-33.94	Pass	H
3957.93	145	235	-45.98	-13	-32.98	Pass	H
5986.02	154	199	-43.53	-13	-30.53	Pass	H
6505.23	146	92	-42.81	-13	-29.81	Pass	H
8053.84	148	249	-48.16	-13	-35.16	Pass	H
1280.76	149	354	-57.37	-13	-44.37	Pass	V
1384.25	146	67	-59.91	-13	-46.91	Pass	V
3466.14	154	201	-51.37	-13	-38.37	Pass	V
3814.59	154	109	-49.16	-13	-36.16	Pass	V
5795.57	154	101	-50.24	-13	-37.24	Pass	V
6567.72	146	231	-47.18	-13	-34.18	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.
1425.85	153	179	-56.30	-13	-43.30	Pass	H
1652.51	146	78	-51.86	-13	-38.86	Pass	H
3859.35	146	355	-40.44	-13	-27.44	Pass	H
5872.17	150	194	-44.69	-13	-31.69	Pass	H
6467.63	148	269	-41.45	-13	-28.45	Pass	H
8109.25	148	43	-46.17	-13	-33.17	Pass	H
1205.92	145	190	-56.36	-13	-43.36	Pass	V
1487.34	155	63	-58.04	-13	-45.04	Pass	V
3620.21	147	97	-48.05	-13	-35.05	Pass	V
3777.76	155	194	-50.14	-13	-37.14	Pass	V
5894.75	153	262	-49.31	-13	-36.31	Pass	V
6472.48	149	145	-43.83	-13	-30.83	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 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.
1355.89	155	336	-56.15	-13	-43.15	Pass	H
1706.72	146	68	-48.09	-13	-35.09	Pass	H
3818.43	154	269	-49.88	-13	-36.88	Pass	H
5985.79	152	13	-43.24	-13	-30.24	Pass	H
6486.22	154	22	-47.56	-13	-34.56	Pass	H
7925.70	153	36	-38.27	-13	-25.27	Pass	H
1199.29	149	42	-53.28	-13	-40.28	Pass	V
1361.05	149	300	-55.54	-13	-42.54	Pass	V
3515.47	149	339	-49.21	-13	-36.21	Pass	V
3890.09	147	57	-48.55	-13	-35.55	Pass	V
5768.83	149	114	-42.21	-13	-29.21	Pass	V
6644.57	147	282	-46.67	-13	-33.67	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.
1271.68	152	286	-54.28	-13	-41.28	Pass	H
1801.55	153	164	-45.66	-13	-32.66	Pass	H
3820.05	151	94	-49.48	-13	-36.48	Pass	H
5879.40	146	139	-43.88	-13	-30.88	Pass	H
6413.94	154	310	-39.63	-13	-26.63	Pass	H
8101.18	150	62	-47.20	-13	-34.20	Pass	H
1267.11	146	237	-55.72	-13	-42.72	Pass	V
1305.59	147	146	-56.24	-13	-43.24	Pass	V
3617.39	152	335	-51.74	-13	-38.74	Pass	V
3785.24	154	302	-45.04	-13	-32.04	Pass	V
5782.48	146	295	-42.90	-13	-29.90	Pass	V
6549.05	149	344	-48.74	-13	-35.74	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.
1404.60	150	78	-57.88	-13	-44.88	Pass	H
1745.42	149	291	-55.90	-13	-42.90	Pass	H
3950.30	151	213	-49.21	-13	-36.21	Pass	H
5823.48	150	89	-43.17	-13	-30.17	Pass	H
6432.63	151	329	-47.72	-13	-34.72	Pass	H
8060.60	148	138	-50.05	-13	-37.05	Pass	H
1267.22	149	99	-56.10	-13	-43.10	Pass	V
1345.04	148	217	-56.06	-13	-43.06	Pass	V
3576.29	150	12	-48.25	-13	-35.25	Pass	V
3748.54	150	137	-45.58	-13	-32.58	Pass	V
5880.54	146	356	-47.38	-13	-34.38	Pass	V
6593.33	146	95	-47.07	-13	-34.07	Pass	V

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Band 7 20775 channel/BW 5 (lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1371.88	150	142	-58.40	-13	-45.40	Pass	H
1778.40	146	280	-50.28	-13	-37.28	Pass	H
3930.08	150	330	-49.64	-13	-36.64	Pass	H
5959.45	146	194	-47.52	-13	-34.52	Pass	H
6410.12	149	260	-51.44	-13	-38.44	Pass	H
8109.81	151	31	-42.92	-13	-29.92	Pass	H
1249.11	149	4	-51.97	-13	-38.97	Pass	V
1398.58	148	257	-63.76	-13	-50.76	Pass	V
3565.73	147	55	-49.18	-13	-36.18	Pass	V
3824.31	148	273	-53.11	-13	-40.11	Pass	V
5759.48	150	136	-47.95	-13	-34.95	Pass	V
6547.02	150	16	-49.79	-13	-36.79	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.
1304.93	149	156	-58.36	-13	-45.36	Pass	H
1595.39	149	170	-52.04	-13	-39.04	Pass	H
3804.51	149	127	-45.87	-13	-32.87	Pass	H
5832.66	146	42	-41.53	-13	-28.53	Pass	H
6455.28	147	69	-41.93	-13	-28.93	Pass	H
7901.87	151	110	-48.78	-13	-35.78	Pass	H
1198.62	148	61	-53.79	-13	-40.79	Pass	V
1351.78	147	266	-52.60	-13	-39.60	Pass	V
3426.09	148	303	-49.38	-13	-36.38	Pass	V
3877.46	149	195	-43.27	-13	-30.27	Pass	V
5716.24	147	323	-47.48	-13	-34.48	Pass	V
6556.17	146	325	-46.24	-13	-33.24	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.
1304.93	149	156	-58.36	-13	-45.36	Pass	H
1595.39	149	170	-52.04	-13	-39.04	Pass	H
3804.51	149	127	-45.87	-13	-32.87	Pass	H
5832.66	146	42	-41.53	-13	-28.53	Pass	H
6455.28	147	69	-41.93	-13	-28.93	Pass	H
7901.87	151	110	-48.78	-13	-35.78	Pass	H
1198.62	148	61	-53.79	-13	-40.79	Pass	V
1351.78	147	266	-52.60	-13	-39.60	Pass	V
3426.09	148	303	-49.38	-13	-36.38	Pass	V
3877.46	149	195	-43.27	-13	-30.27	Pass	V
5716.24	147	323	-47.48	-13	-34.48	Pass	V
6556.17	146	325	-46.24	-13	-33.24	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.

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=DC12V; Low Voltage LV=DC10.8; High Voltage HV=DC13.2V
Please refer to Appendix 2: Frequency Stability
Test result: Pass

※※※※※ END OF REPORT ※※※※※