



TEST REPORT

Product Name: 4G Solar Smart Camera
FCC ID: 2BLRU-Q8D
Trademark: N/A
Model Number: ICAM365-Q8D-4G
Prepared For: Shenzhen Hike Video Technology Co., Ltd.
Address: Workshop, Building C, 409 Jihua Road, Xinxue Community, Bantian Street, Longgang District, Shenzhen China.
Manufacturer: Shenzhen Hike Video Technology Co., Ltd.
Address: Workshop, Building C, 409 Jihua Road, Xinxue Community, Bantian Street, Longgang District, Shenzhen China.
Prepared By: Shenzhen CTB Testing Technology Co., Ltd.
Address: 1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: Feb. 22, 2025
Sample tested Date: Feb. 22, 2025 to Mar. 10, 2025
Issue Date: Mar. 10, 2025
Report No.: CTB25022202003RF01
Test Standards: FCC Part 2, 24E, 27
Test Results: PASS
Remark: This is LTE radio test report.

Compiled by:

Zhou kui

Zhou Kui

Reviewed by:

Arron Liu

Arron Liu

Approved by:

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.

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(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB25022202003RF01	Mar. 10, 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 chamber Radiated spurious emission(30MHz-1GHz)	4.6dB
3m chamber Radiated spurious emission(1GHz-18GHz)	5.1dB
3m chamber Radiated spurious emission(18GHz-40GHz)	3.4dB
Receiver Reference Sensitivity level	1.9dB
humidity uncertainty	5.5%
Temperature uncertainty	0.63°C
frequency	1×10^{-7}

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	ICAM365-Q8D-4G
Model Description:	N/A
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 12: 699-716MHz FDD-LTE BAND 13: 777-787MHz
Max. RF output power:	FDD-LTE BAND 2: 23.57dBm FDD-LTE BAND 4: 22.84dBm FDD-LTE BAND 12: 23.73dBm FDD-LTE BAND 13: 23.90dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	FPC antenna
Antenna Gain:	FDD-LTE BAND 2: 1.75dBi FDD-LTE BAND 4: 1.12dBi FDD-LTE BAND 12: -0.29dBi FDD-LTE BAND 13: 0.01dBi
Ratings:	DC 5V, 2A DC 3.7V by battery

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

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	Remark
TM1	FDD-LTE BAND 2	Low, Middle, High Channels
TM2	FDD-LTE BAND 4	Low, Middle, High Channels
TM3	FDD-LTE BAND 12	Low, Middle, High Channels
TM4	FDD-LTE BAND 13	Low, Middle, High Channels

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, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: CN1276

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated 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 Meter	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.

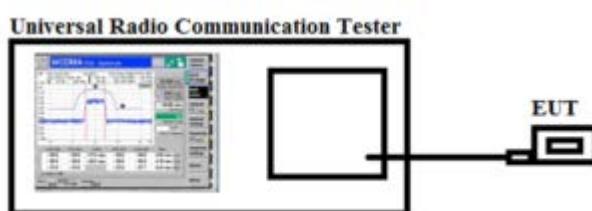
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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.

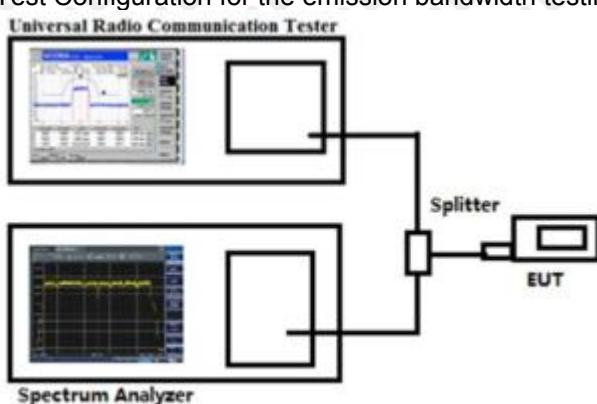
According to §27.50(B), the peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for 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.

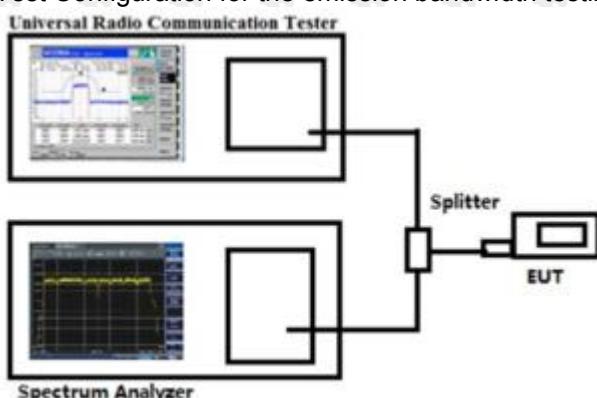
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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: 26dB Bandwidth and Occupied Bandwidth
Test result: Pass

10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

10.1 Standard Applicable

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

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

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

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

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

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

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

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

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

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

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

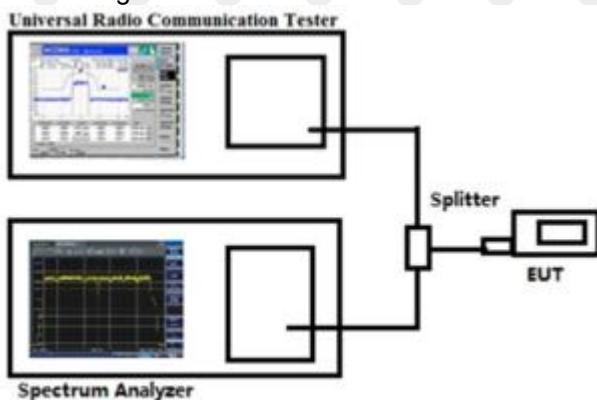
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$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

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

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 $43 + 10 \log(P)$ 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.
1360.34	143	1	-58.71	-13	-45.71	Pass	H
1755.97	145	101	-50.09	-13	-37.09	Pass	H
3924.51	142	254	-47.26	-13	-34.26	Pass	H
5834.37	154	357	-46.98	-13	-33.98	Pass	H
6465.14	148	169	-44.96	-13	-31.96	Pass	H
8168.22	157	137	-44.01	-13	-31.01	Pass	H
1298.04	154	64	-54.66	-13	-41.66	Pass	V
1427.95	148	114	-58.97	-13	-45.97	Pass	V
3605.76	156	236	-51.30	-13	-38.30	Pass	V
3738.88	143	89	-51.34	-13	-38.34	Pass	V
5770.28	144	276	-47.79	-13	-34.79	Pass	V
6606.42	143	141	-47.13	-13	-34.13	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.
1223.65	150	273	-56.42	-13	-43.42	Pass	H
1815.29	146	257	-52.83	-13	-39.83	Pass	H
3897.15	150	199	-49.40	-13	-36.40	Pass	H
5816.32	146	161	-43.64	-13	-30.64	Pass	H
6458.43	149	9	-50.78	-13	-37.78	Pass	H
8033.46	151	134	-47.18	-13	-34.18	Pass	H
1243.12	149	350	-54.99	-13	-41.99	Pass	V
1390.03	148	157	-60.92	-13	-47.92	Pass	V
3499.24	147	47	-53.46	-13	-40.46	Pass	V
3893.92	148	303	-48.31	-13	-35.31	Pass	V
5756.32	150	319	-47.21	-13	-34.21	Pass	V
6509.52	150	239	-49.65	-13	-36.65	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.
1335.87	154	275	-55.46	-13	-42.46	Pass	H
1740.66	148	86	-52.65	-13	-39.65	Pass	H
3882.86	150	246	-48.22	-13	-35.22	Pass	H
5913.11	148	75	-42.78	-13	-29.78	Pass	H
6474.26	151	319	-41.24	-13	-28.24	Pass	H
7916.58	147	105	-44.75	-13	-31.75	Pass	H
1206.43	151	14	-55.20	-13	-42.20	Pass	V
1404.14	147	295	-57.19	-13	-44.19	Pass	V
3561.13	152	34	-55.20	-13	-42.20	Pass	V
3970.76	153	126	-51.45	-13	-38.45	Pass	V
5817.86	149	248	-40.51	-13	-27.51	Pass	V
6616.86	149	51	-50.41	-13	-37.41	Pass	V

16QAM

Band 2 18607 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1396.11	152	184	-59.28	-13	-46.28	Pass	H
1604.30	145	292	-48.03	-13	-35.03	Pass	H
3911.99	149	133	-51.42	-13	-38.42	Pass	H
5889.19	145	219	-45.26	-13	-32.26	Pass	H
6536.97	154	204	-43.24	-13	-30.24	Pass	H
7994.00	146	196	-42.12	-13	-29.12	Pass	H
1227.91	148	5	-51.28	-13	-38.28	Pass	V
1342.70	152	80	-53.73	-13	-40.73	Pass	V
3650.80	149	75	-51.60	-13	-38.60	Pass	V
3812.57	153	117	-53.98	-13	-40.98	Pass	V
5786.16	145	78	-43.77	-13	-30.77	Pass	V
6679.20	146	213	-50.24	-13	-37.24	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.
1268.87	148	92	-50.91	-13	-41.45	Pass	H
1759.61	151	70	-48.52	-13	-37.85	Pass	H
3932.68	150	146	-50.59	-13	-35.2	Pass	H
5923.46	148	178	-40.29	-13	-30.39	Pass	H
6405.54	154	350	-46.03	-13	-32.24	Pass	H
8065.79	150	14	-43.04	-13	-30.22	Pass	H
1092.18	149	263	-58.30	-13	-44.9	Pass	V
1460.46	149	151	-52.70	-13	-43.63	Pass	V
3483.06	153	36	-48.63	-13	-35.94	Pass	V
3891.66	151	144	-46.49	-13	-36.01	Pass	V
5769.37	148	146	-46.29	-13	-33.75	Pass	V
6562.16	149	25	-47.62	-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.
1388.44	147	39	-58.99	-13	-45.99	Pass	H
1612.77	146	167	-47.22	-13	-34.22	Pass	H
3940.05	150	347	-42.61	-13	-29.61	Pass	H
5954.08	148	78	-40.56	-13	-27.56	Pass	H
6447.57	152	104	-42.33	-13	-29.33	Pass	H
8007.28	151	342	-45.51	-13	-32.51	Pass	H
1159.42	151	53	-57.92	-13	-44.92	Pass	V
1418.03	153	172	-55.35	-13	-42.35	Pass	V
3577.51	152	51	-49.32	-13	-36.32	Pass	V
3786.55	153	276	-53.54	-13	-40.54	Pass	V
5709.17	151	93	-49.21	-13	-36.21	Pass	V
6635.27	152	305	-48.38	-13	-35.38	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.
1308.13	150	349	-59.24	-13	-46.24	Pass	H
1667.49	147	357	-50.32	-13	-37.32	Pass	H
3865.56	147	276	-48.87	-13	-35.87	Pass	H
6010.68	150	323	-44.09	-13	-31.09	Pass	H
6531.95	146	248	-41.05	-13	-28.05	Pass	H
7936.95	147	65	-42.62	-13	-29.62	Pass	H
1115.02	150	347	-52.12	-13	-39.12	Pass	V
1503.50	153	168	-56.57	-13	-43.57	Pass	V
3506.85	149	187	-47.60	-13	-34.60	Pass	V
3865.55	145	21	-54.03	-13	-41.03	Pass	V
5933.60	153	267	-45.56	-13	-32.56	Pass	V
6500.21	152	64	-50.51	-13	-37.51	Pass	V
Band 4 20175 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1284.80	152	52	-55.28	-13	-42.28	Pass	H
1820.80	146	7	-49.65	-13	-36.65	Pass	H
3860.22	147	20	-45.84	-13	-32.84	Pass	H
5904.30	151	94	-42.12	-13	-29.12	Pass	H
6590.38	150	84	-43.97	-13	-30.97	Pass	H
7985.64	149	126	-42.07	-13	-29.07	Pass	H
1243.68	147	275	-60.52	-13	-47.52	Pass	V
1315.27	148	255	-61.24	-13	-48.24	Pass	V
3444.07	152	214	-46.28	-13	-33.28	Pass	V
3936.24	149	167	-43.86	-13	-30.86	Pass	V
5882.60	147	150	-40.37	-13	-27.37	Pass	V
6465.13	148	140	-45.23	-13	-32.23	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.
1371.99	153	216	-51.86	-13	-38.86	Pass	H
1660.29	152	38	-50.80	-13	-37.80	Pass	H
3986.02	151	160	-40.75	-13	-27.75	Pass	H
5958.62	154	140	-40.42	-13	-27.42	Pass	H
6440.40	145	101	-40.97	-13	-27.97	Pass	H
8091.54	151	343	-41.83	-13	-28.83	Pass	H
1228.78	146	346	-52.22	-13	-39.22	Pass	V
1369.58	148	354	-54.18	-13	-41.18	Pass	V
3619.41	148	186	-52.31	-13	-39.31	Pass	V
3757.91	148	103	-50.98	-13	-37.98	Pass	V
5897.53	151	10	-48.82	-13	-35.82	Pass	V
6470.94	147	32	-50.83	-13	-37.83	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.
1391.88	147	292	-53.76	-13	-40.76	Pass	H
1656.28	149	261	-54.68	-13	-41.68	Pass	H
3990.31	146	280	-53.09	-13	-40.09	Pass	H
5775.19	149	211	-47.04	-13	-34.04	Pass	H
6505.97	148	161	-46.07	-13	-33.07	Pass	H
7903.69	149	7	-44.77	-13	-31.77	Pass	H
1133.36	154	295	-55.81	-13	-42.81	Pass	V
1537.01	145	61	-57.81	-13	-44.81	Pass	V
3491.35	154	17	-47.39	-13	-34.39	Pass	V
3911.95	150	158	-50.35	-13	-37.35	Pass	V
5818.33	149	139	-44.00	-13	-31.00	Pass	V
6532.76	147	91	-45.10	-13	-32.10	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.
1309.62	146	351	-53.82	-13	-40.82	Pass	H
1664.57	146	145	-56.73	-13	-43.73	Pass	H
3831.59	147	273	-45.61	-13	-32.61	Pass	H
5960.63	147	154	-42.77	-13	-29.77	Pass	H
6397.24	150	272	-53.55	-13	-40.55	Pass	H
7940.91	151	289	-44.26	-13	-31.26	Pass	H
1199.08	151	83	-52.04	-13	-39.04	Pass	V
1490.04	149	288	-66.22	-13	-53.22	Pass	V
3668.93	153	352	-54.81	-13	-41.81	Pass	V
3979.39	147	66	-54.22	-13	-41.22	Pass	V
5741.49	146	198	-54.00	-13	-41.00	Pass	V
6467.96	150	114	-49.60	-13	-36.60	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.
1258.77	153	333	-59.43	-13	-46.43	Pass	H
1607.44	153	328	-51.00	-13	-38.00	Pass	H
3773.47	153	215	-45.81	-13	-32.81	Pass	H
5837.83	150	225	-39.08	-13	-26.08	Pass	H
6523.61	151	3	-40.26	-13	-27.26	Pass	H
7982.96	150	333	-42.68	-13	-29.68	Pass	H
1162.17	152	129	-50.94	-13	-37.94	Pass	V
1373.63	152	280	-52.76	-13	-39.76	Pass	V
3461.73	146	164	-54.32	-13	-41.32	Pass	V
3905.40	149	296	-48.40	-13	-35.40	Pass	V
5772.06	147	207	-46.11	-13	-33.11	Pass	V
6518.35	146	85	-49.52	-13	-36.52	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 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.
1374.98	148	58	-59.53	-13	-46.53	Pass	H
1734.03	155	173	-53.67	-13	-40.67	Pass	H
3840.88	150	356	-45.91	-13	-32.91	Pass	H
5977.76	147	99	-43.04	-13	-30.04	Pass	H
6614.81	154	175	-43.10	-13	-30.10	Pass	H
8078.46	155	38	-43.97	-13	-30.97	Pass	H
1293.39	147	37	-56.82	-13	-43.82	Pass	V
1481.78	147	218	-55.63	-13	-42.63	Pass	V
3515.17	152	183	-51.20	-13	-38.20	Pass	V
3919.89	145	45	-46.45	-13	-33.45	Pass	V
5845.69	155	114	-43.91	-13	-30.91	Pass	V
6607.65	146	8	-49.46	-13	-36.46	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.
1274.56	150	105	-60.20	-13	-47.20	Pass	H
1672.13	151	244	-46.66	-13	-33.66	Pass	H
3912.41	153	26	-48.57	-13	-35.57	Pass	H
5893.31	152	262	-44.99	-13	-31.99	Pass	H
6557.23	146	227	-44.88	-13	-31.88	Pass	H
7987.47	154	240	-44.15	-13	-31.15	Pass	H
1117.29	149	95	-50.08	-13	-37.08	Pass	V
1406.88	154	235	-53.17	-13	-40.17	Pass	V
3647.47	148	238	-48.82	-13	-35.82	Pass	V
3973.05	154	256	-50.89	-13	-37.89	Pass	V
5763.49	154	140	-46.94	-13	-33.94	Pass	V
6589.84	151	274	-50.52	-13	-37.52	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.
1370.71	153	271	-52.96	-13	-41.45	Pass	H
1651.06	152	100	-49.28	-13	-37.85	Pass	H
3856.68	151	291	-49.94	-13	-35.2	Pass	H
5899.69	145	307	-45.11	-13	-30.39	Pass	H
6558.23	150	30	-45.21	-13	-32.24	Pass	H
8014.73	148	141	-40.31	-13	-30.22	Pass	H
1155.87	150	63	-58.76	-13	-44.9	Pass	V
1475.44	147	32	-59.10	-13	-43.63	Pass	V
3467.68	152	319	-50.46	-13	-35.94	Pass	V
3945.86	146	149	-48.70	-13	-36.01	Pass	V
5765.66	147	267	-49.65	-13	-33.75	Pass	V
6434.09	153	250	-43.31	-13	-32.41	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.
1412.12	146	216	-58.34	-13	-45.34	Pass	H
1646.08	148	237	-51.44	-13	-38.44	Pass	H
3859.33	154	124	-44.98	-13	-31.98	Pass	H
5979.07	153	223	-42.10	-13	-29.10	Pass	H
6453.58	154	136	-41.16	-13	-28.16	Pass	H
8033.86	148	180	-44.69	-13	-31.69	Pass	H
1160.10	149	77	-54.15	-13	-41.15	Pass	V
1460.43	146	302	-58.21	-13	-45.21	Pass	V
3470.40	147	99	-47.38	-13	-34.38	Pass	V
3753.04	146	191	-47.86	-13	-34.86	Pass	V
5872.57	147	5	-51.52	-13	-38.52	Pass	V
6459.84	147	185	-46.60	-13	-33.60	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.
1290.35	149	80	-56.51	-13	-43.51	Pass	H
1769.22	149	79	-44.76	-13	-31.76	Pass	H
3927.57	154	244	-52.89	-13	-39.89	Pass	H
5849.25	148	269	-43.58	-13	-30.58	Pass	H
6492.54	153	317	-45.59	-13	-32.59	Pass	H
7918.45	149	335	-43.54	-13	-30.54	Pass	H
1251.29	154	261	-54.82	-13	-41.82	Pass	V
1494.84	147	58	-53.78	-13	-40.78	Pass	V
3504.87	146	90	-50.29	-13	-37.29	Pass	V
3941.15	147	199	-52.50	-13	-39.50	Pass	V
5948.86	148	294	-46.25	-13	-33.25	Pass	V
6614.62	147	150	-50.83	-13	-37.83	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.
1268.61	155	309	-52.32	-13	-39.32	Pass	H
1665.48	151	336	-45.10	-13	-32.10	Pass	H
3804.72	152	137	-46.00	-13	-33.00	Pass	H
5961.21	148	60	-39.43	-13	-26.43	Pass	H
6418.48	154	91	-43.71	-13	-30.71	Pass	H
8022.12	147	172	-45.74	-13	-32.74	Pass	H
1268.65	150	221	-58.72	-13	-45.72	Pass	V
1431.20	150	171	-59.41	-13	-46.41	Pass	V
3548.47	152	309	-49.48	-13	-36.48	Pass	V
3828.13	152	214	-47.25	-13	-34.25	Pass	V
5885.22	154	346	-44.32	-13	-31.32	Pass	V
6572.04	145	49	-41.91	-13	-28.91	Pass	V

Note:

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

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

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Band 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.
1423.62	151	141	-53.33	-13	-40.33	Pass	H
1745.16	155	276	-51.93	-13	-38.93	Pass	H
3845.39	147	245	-43.08	-13	-30.08	Pass	H
5914.06	146	177	-38.56	-13	-25.56	Pass	H
6435.93	154	47	-43.29	-13	-30.29	Pass	H
8135.86	150	91	-43.95	-13	-30.95	Pass	H
1186.75	151	346	-54.58	-13	-41.58	Pass	V
1444.52	148	141	-56.82	-13	-43.82	Pass	V
3563.84	149	211	-50.93	-13	-37.93	Pass	V
3925.65	155	24	-45.03	-13	-32.03	Pass	V
5758.65	149	268	-47.06	-13	-34.06	Pass	V
6617.47	151	10	-47.42	-13	-34.42	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.
1312.91	149	248	-53.49	-13	-40.49	Pass	H
1823.81	151	315	-50.85	-13	-37.85	Pass	H
3975.89	146	88	-48.72	-13	-35.72	Pass	H
5806.47	150	246	-48.03	-13	-35.03	Pass	H
6490.36	146	17	-44.34	-13	-31.34	Pass	H
8001.04	148	310	-46.34	-13	-33.34	Pass	H
1212.38	150	222	-60.18	-13	-47.18	Pass	V
1373.67	152	338	-58.20	-13	-45.20	Pass	V
3536.79	154	256	-46.66	-13	-33.66	Pass	V
3930.83	146	2	-49.06	-13	-36.06	Pass	V
5812.48	148	61	-48.90	-13	-35.90	Pass	V
6539.27	152	25	-47.86	-13	-34.86	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.
1336.90	152	156	-59.66	-13	-46.66	Pass	H
1656.59	149	93	-55.31	-13	-42.31	Pass	H
3970.28	149	181	-46.41	-13	-33.41	Pass	H
5774.22	147	195	-45.82	-13	-32.82	Pass	H
6494.22	150	40	-52.94	-13	-39.94	Pass	H
8038.27	149	298	-44.04	-13	-31.04	Pass	H
1322.50	146	136	-55.54	-13	-42.54	Pass	V
1395.34	151	174	-64.34	-13	-51.34	Pass	V
3566.26	149	198	-48.39	-13	-35.39	Pass	V
3976.67	148	343	-51.96	-13	-38.96	Pass	V
5801.18	152	250	-48.62	-13	-35.62	Pass	V
6475.56	146	194	-46.90	-13	-33.90	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.
1281.79	151	297	-56.28	-13	-43.28	Pass	H
1818.55	145	80	-54.71	-13	-41.71	Pass	H
3853.79	150	200	-46.61	-13	-33.61	Pass	H
5948.81	152	333	-47.39	-13	-34.39	Pass	H
6590.55	151	298	-50.29	-13	-37.29	Pass	H
7932.26	151	26	-44.98	-13	-31.98	Pass	H
1164.10	148	75	-56.91	-13	-43.91	Pass	V
1538.17	148	295	-54.60	-13	-41.60	Pass	V
3481.28	153	31	-52.41	-13	-39.41	Pass	V
3800.25	146	268	-47.29	-13	-34.29	Pass	V
5803.20	152	64	-49.22	-13	-36.22	Pass	V
6467.48	154	305	-50.59	-13	-37.59	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.
1321.27	146	205	-58.09	-13	-45.09	Pass	H
1744.25	148	192	-55.77	-13	-42.77	Pass	H
3887.06	153	168	-48.36	-13	-35.36	Pass	H
5791.54	152	227	-47.33	-13	-34.33	Pass	H
6432.68	152	350	-47.30	-13	-34.30	Pass	H
8077.64	154	142	-46.18	-13	-33.18	Pass	H
1254.02	148	202	-52.05	-13	-39.05	Pass	V
1371.67	152	61	-62.10	-13	-49.10	Pass	V
3528.14	154	77	-51.24	-13	-38.24	Pass	V
3940.45	152	22	-50.24	-13	-37.24	Pass	V
5843.56	147	144	-48.43	-13	-35.43	Pass	V
6512.19	148	297	-50.88	-13	-37.88	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.
1246.87	145	84	-54.24	-13	-41.24	Pass	H
1614.80	150	227	-48.21	-13	-35.21	Pass	H
3812.52	152	106	-43.10	-13	-30.10	Pass	H
5847.16	149	279	-43.07	-13	-30.07	Pass	H
6429.81	148	232	-40.57	-13	-27.57	Pass	H
7903.76	153	39	-46.79	-13	-33.79	Pass	H
1207.21	151	13	-51.58	-13	-38.58	Pass	V
1357.66	154	49	-52.51	-13	-39.51	Pass	V
3471.13	146	214	-53.30	-13	-40.30	Pass	V
3828.47	149	166	-49.68	-13	-36.68	Pass	V
5727.12	149	290	-42.00	-13	-29.00	Pass	V
6546.69	153	291	-44.00	-13	-31.00	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=DC3.7V; Low Voltage LV=DC 3.33V; High Voltage HV=DC4.07V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

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