



TEST REPORT

Product Name: 4G Smart Camera
FCC ID: 2BLRU-LQ8D
Trademark: N/A
Model Number: ICAM365-LQ8D-4G
Prepared For: Shenzhen Hike Video Technology Co., Ltd.
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Sample Received Date: Feb. 22, 2025
Sample tested Date: Feb. 22, 2025 to Mar. 10, 2025
Issue Date: Mar. 10, 2025
Report No.: CTB25022202001RF01
Test Standards: FCC Part 2, 24E, 27
Test Results: PASS
Remark: This is LTE radio test report.

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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
CTB25022202001RF01	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 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):	ICAM365-LQ8D-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: 23.70dBm FDD-LTE BAND 4: 22.78dBm FDD-LTE BAND 12: 23.55dBm FDD-LTE BAND 13: 23.88dBm
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 12V, 2A

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(AC):	120V
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, Xinghe 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.

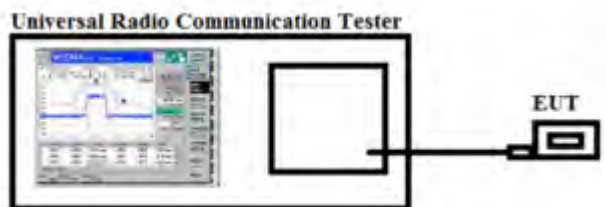
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

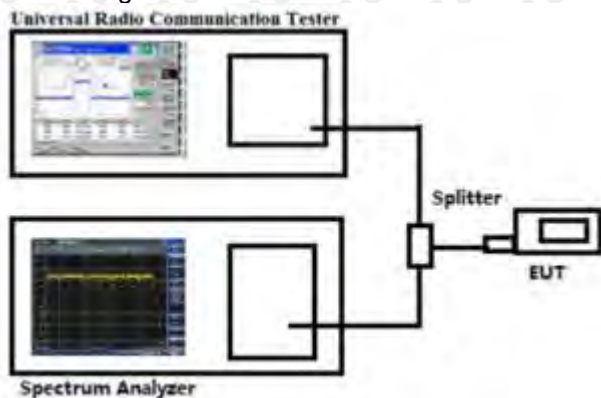
corresponding to the highest PAPR expected during periods of continuous transmission.

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.

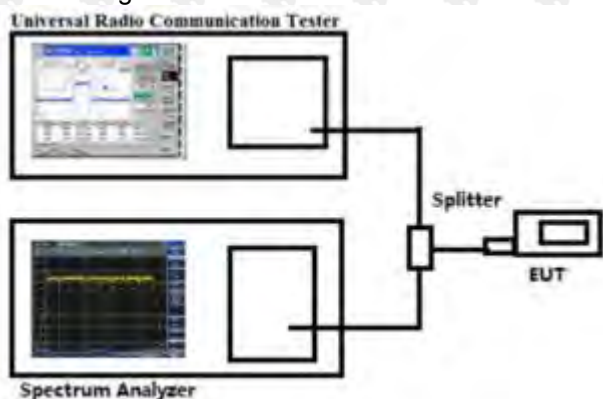
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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: 26dB Bandwidth and Occupied Bandwidth
Test result: Pass

10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

10.1 Standard Applicable

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

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

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

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

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

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

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

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

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

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

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

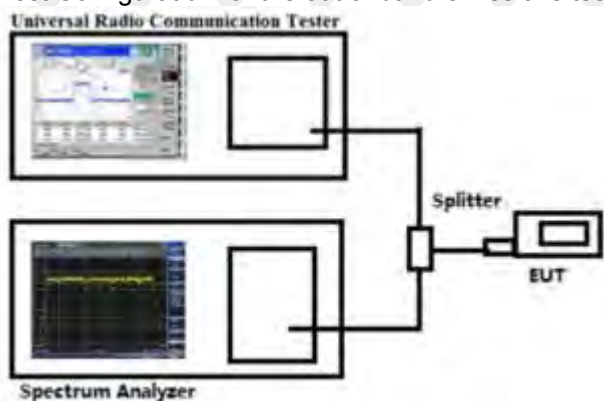
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$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

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

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 $43 + 10 \log_{10}(P)$ 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.
1303.36	144	288	-58.02	-13	-45.02	Pass	H
1765.46	157	296	-48.96	-13	-35.96	Pass	H
3893.78	148	44	-48.40	-13	-35.40	Pass	H
5968.01	141	143	-45.03	-13	-32.03	Pass	H
6487.49	158	243	-42.38	-13	-29.38	Pass	H
7983.05	140	198	-44.87	-13	-31.87	Pass	H
1220.91	150	59	-55.38	-13	-42.38	Pass	V
1365.42	156	151	-60.25	-13	-47.25	Pass	V
3557.84	148	202	-52.89	-13	-39.89	Pass	V
3764.02	142	15	-51.77	-13	-38.77	Pass	V
5838.14	146	169	-47.18	-13	-34.18	Pass	V
6494.03	144	270	-47.46	-13	-34.46	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.
1376.56	150	247	-55.96	-13	-42.96	Pass	H
1734.51	146	335	-52.81	-13	-39.81	Pass	H
3855.82	150	4	-53.35	-13	-40.35	Pass	H
5864.99	146	307	-48.27	-13	-35.27	Pass	H
6411.11	149	237	-47.67	-13	-34.67	Pass	H
7978.15	151	188	-50.35	-13	-37.35	Pass	H
1136.79	149	153	-56.46	-13	-43.46	Pass	V
1362.06	148	190	-57.05	-13	-44.05	Pass	V
3496.59	147	272	-54.43	-13	-41.43	Pass	V
3845.83	148	189	-48.44	-13	-35.44	Pass	V
5899.40	150	149	-49.19	-13	-36.19	Pass	V
6618.56	150	91	-46.29	-13	-33.29	Pass	V

Band 2 19193 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1318.24	148	102	-59.33	-13	-46.33	Pass	H
1630.65	147	60	-53.35	-13	-40.35	Pass	H
3944.58	149	271	-42.74	-13	-29.74	Pass	H
5982.18	155	64	-43.86	-13	-30.86	Pass	H
6541.75	147	118	-41.88	-13	-28.88	Pass	H
7922.98	151	333	-45.23	-13	-32.23	Pass	H
1227.18	155	88	-57.47	-13	-44.47	Pass	V
1444.02	147	196	-59.46	-13	-46.46	Pass	V
3429.61	154	260	-51.87	-13	-38.87	Pass	V
3824.06	154	16	-49.95	-13	-36.95	Pass	V
5846.34	149	195	-40.99	-13	-27.99	Pass	V
6634.03	149	330	-49.67	-13	-36.67	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.
1254.82	153	96	-55.88	-13	-42.88	Pass	H
1722.56	147	329	-49.02	-13	-36.02	Pass	H
3909.96	153	221	-47.98	-13	-34.98	Pass	H
5905.14	152	58	-47.88	-13	-34.88	Pass	H
6485.47	150	354	-43.75	-13	-30.75	Pass	H
7909.32	153	306	-43.78	-13	-30.78	Pass	H
1242.06	154	319	-51.69	-13	-38.69	Pass	V
1328.15	145	351	-56.81	-13	-43.81	Pass	V
3571.74	150	253	-51.66	-13	-38.66	Pass	V
3864.26	152	131	-54.07	-13	-41.07	Pass	V
5929.39	149	162	-48.08	-13	-35.08	Pass	V
6524.29	148	43	-51.44	-13	-38.44	Pass	V

Band 2 18900 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1361.09	155	294	-52.71	-13	-41.45	Pass	H
1752.18	154	86	-48.06	-13	-37.85	Pass	H
3782.41	147	353	-47.34	-13	-35.2	Pass	H
5898.34	152	284	-44.34	-13	-30.39	Pass	H
6566.71	147	106	-44.32	-13	-32.24	Pass	H
8064.92	146	91	-39.27	-13	-30.22	Pass	H
1232.37	154	207	-59.38	-13	-44.9	Pass	V
1460.56	151	206	-58.84	-13	-43.63	Pass	V
3484.10	148	203	-51.10	-13	-35.94	Pass	V
3866.26	145	271	-51.33	-13	-36.01	Pass	V
5746.01	147	35	-47.87	-13	-33.75	Pass	V
6551.22	154	141	-47.63	-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.
1283.59	149	256	-52.96	-13	-39.96	Pass	H
1646.77	149	79	-48.54	-13	-35.54	Pass	H
3963.17	150	115	-43.74	-13	-30.74	Pass	H
5816.62	151	343	-44.12	-13	-31.12	Pass	H
6418.50	152	20	-40.91	-13	-27.91	Pass	H
8084.27	147	75	-46.17	-13	-33.17	Pass	H
1183.11	154	54	-57.51	-13	-44.51	Pass	V
1534.61	149	117	-57.03	-13	-44.03	Pass	V
3496.32	146	174	-52.78	-13	-39.78	Pass	V
3873.66	154	16	-52.19	-13	-39.19	Pass	V
5708.26	147	332	-50.27	-13	-37.27	Pass	V
6468.78	153	267	-42.17	-13	-29.17	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.
1396.45	145	334	-55.03	-13	-42.03	Pass	H
1641.95	149	104	-44.04	-13	-31.04	Pass	H
3846.39	149	167	-50.16	-13	-37.16	Pass	H
5838.26	146	222	-43.96	-13	-30.96	Pass	H
6611.56	155	281	-44.34	-13	-31.34	Pass	H
7963.33	149	207	-42.38	-13	-29.38	Pass	H
1173.47	155	124	-50.28	-13	-37.28	Pass	V
1502.12	152	289	-52.66	-13	-39.66	Pass	V
3693.67	153	171	-50.12	-13	-37.12	Pass	V
3971.21	150	84	-52.73	-13	-39.73	Pass	V
5772.50	154	142	-46.16	-13	-33.16	Pass	V
6543.04	151	144	-49.71	-13	-36.71	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.
1400.89	150	214	-52.92	-13	-39.92	Pass	H
1780.37	147	136	-50.59	-13	-37.59	Pass	H
3902.39	154	169	-46.79	-13	-33.79	Pass	H
5979.57	153	125	-42.29	-13	-29.29	Pass	H
6601.89	147	94	-45.32	-13	-32.32	Pass	H
7979.29	147	263	-46.14	-13	-33.14	Pass	H
1222.07	153	78	-54.98	-13	-41.98	Pass	V
1429.78	146	258	-61.69	-13	-48.69	Pass	V
3590.09	152	74	-46.11	-13	-33.11	Pass	V
3767.25	148	23	-47.19	-13	-34.19	Pass	V
5770.26	146	69	-45.42	-13	-32.42	Pass	V
6501.89	151	206	-42.97	-13	-29.97	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.
1308.95	152	281	-50.03	-13	-37.03	Pass	H
1741.09	149	243	-50.63	-13	-37.63	Pass	H
3875.14	154	130	-41.19	-13	-28.19	Pass	H
5928.06	155	63	-44.22	-13	-31.22	Pass	H
6508.91	154	113	-42.50	-13	-29.50	Pass	H
8176.01	148	214	-40.74	-13	-27.74	Pass	H
1158.42	150	189	-51.69	-13	-38.69	Pass	V
1514.63	155	187	-52.99	-13	-39.99	Pass	V
3574.37	147	286	-48.43	-13	-35.43	Pass	V
3751.56	154	212	-50.70	-13	-37.70	Pass	V
5873.57	154	143	-47.49	-13	-34.49	Pass	V
6529.13	148	139	-50.94	-13	-37.94	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.
1420.94	148	224	-57.34	-13	-44.34	Pass	H
1663.64	153	222	-52.14	-13	-39.14	Pass	H
3916.68	148	121	-49.18	-13	-36.18	Pass	H
5851.61	153	79	-44.56	-13	-31.56	Pass	H
6410.15	153	37	-46.88	-13	-33.88	Pass	H
7907.09	146	254	-49.39	-13	-36.39	Pass	H
1243.53	155	215	-59.27	-13	-46.27	Pass	V
1392.26	145	260	-58.13	-13	-45.13	Pass	V
3581.85	151	119	-49.87	-13	-36.87	Pass	V
3845.89	149	3	-45.94	-13	-32.94	Pass	V
5763.43	153	177	-43.10	-13	-30.10	Pass	V
6572.39	155	188	-48.08	-13	-35.08	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.
1208.95	150	135	-59.85	-13	-46.85	Pass	H
1630.46	153	138	-55.81	-13	-42.81	Pass	H
3870.83	146	326	-45.65	-13	-32.65	Pass	H
5901.48	148	92	-43.27	-13	-30.27	Pass	H
6517.24	148	145	-47.33	-13	-34.33	Pass	H
7940.66	148	188	-45.00	-13	-32.00	Pass	H
1158.08	154	37	-53.29	-13	-40.29	Pass	V
1417.59	146	173	-61.95	-13	-48.95	Pass	V
3674.19	151	191	-48.99	-13	-35.99	Pass	V
4011.63	148	124	-49.95	-13	-36.95	Pass	V
5857.85	146	238	-48.02	-13	-35.02	Pass	V
6576.04	151	161	-49.96	-13	-36.96	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.
1321.14	148	21	-55.00	-13	-42.00	Pass	H
1643.46	146	48	-50.20	-13	-37.20	Pass	H
3808.79	154	59	-45.03	-13	-32.03	Pass	H
5858.58	151	353	-44.36	-13	-31.36	Pass	H
6491.20	150	139	-42.78	-13	-29.78	Pass	H
7938.70	152	53	-47.80	-13	-34.80	Pass	H
1170.98	155	66	-56.39	-13	-43.39	Pass	V
1386.32	151	159	-55.09	-13	-42.09	Pass	V
3448.15	153	230	-52.61	-13	-39.61	Pass	V
3830.31	152	104	-43.49	-13	-30.49	Pass	V
5699.45	147	139	-43.76	-13	-30.76	Pass	V
6553.84	154	62	-44.30	-13	-31.30	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.
1280.86	153	5	-56.63	-13	-43.63	Pass	H
1711.31	156	306	-47.15	-13	-34.15	Pass	H
3918.77	140	257	-45.50	-13	-32.50	Pass	H
5829.29	149	9	-45.96	-13	-32.96	Pass	H
6605.26	150	155	-43.73	-13	-30.73	Pass	H
8092.18	146	181	-44.42	-13	-31.42	Pass	H
1105.94	159	268	-52.53	-13	-39.53	Pass	V
1417.05	140	123	-59.87	-13	-46.87	Pass	V
3633.54	143	83	-48.67	-13	-35.67	Pass	V
3749.16	145	196	-49.53	-13	-36.53	Pass	V
5872.93	144	40	-49.43	-13	-36.43	Pass	V
6604.61	159	260	-47.08	-13	-34.08	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.
1292.65	150	47	-53.79	-13	-40.79	Pass	H
1695.11	146	42	-50.54	-13	-37.54	Pass	H
3819.94	150	304	-51.81	-13	-38.81	Pass	H
5919.43	146	22	-44.21	-13	-31.21	Pass	H
6467.71	149	324	-47.23	-13	-34.23	Pass	H
8102.33	151	294	-50.82	-13	-37.82	Pass	H
1202.11	149	209	-50.84	-13	-37.84	Pass	V
1477.42	148	340	-61.40	-13	-48.40	Pass	V
3497.36	147	316	-51.71	-13	-38.71	Pass	V
4004.11	148	233	-50.94	-13	-37.94	Pass	V
5846.29	150	354	-46.77	-13	-33.77	Pass	V
6437.92	150	145	-46.79	-13	-33.79	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.
1439.23	150	268	-59.37	-13	-46.37	Pass	H
1646.86	146	8	-51.92	-13	-38.92	Pass	H
3932.19	147	73	-44.78	-13	-31.78	Pass	H
6004.12	152	105	-42.82	-13	-29.82	Pass	H
6442.73	153	92	-40.59	-13	-27.59	Pass	H
7943.39	154	310	-43.71	-13	-30.71	Pass	H
1284.94	147	280	-58.30	-13	-45.30	Pass	V
1384.19	148	100	-56.58	-13	-43.58	Pass	V
3607.60	145	41	-53.17	-13	-40.17	Pass	V
3963.40	148	265	-46.02	-13	-33.02	Pass	V
5768.16	154	247	-43.02	-13	-30.02	Pass	V
6672.28	150	101	-50.74	-13	-37.74	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.
1281.55	155	81	-56.95	-13	-43.95	Pass	H
1632.51	145	117	-48.33	-13	-35.33	Pass	H
3953.23	149	250	-50.32	-13	-37.32	Pass	H
5966.95	147	141	-47.67	-13	-34.67	Pass	H
6576.11	149	334	-43.31	-13	-30.31	Pass	H
7986.10	146	133	-44.63	-13	-31.63	Pass	H
1115.25	146	83	-53.42	-13	-40.42	Pass	V
1517.35	151	157	-56.94	-13	-43.94	Pass	V
3585.81	152	44	-49.42	-13	-36.42	Pass	V
3913.91	155	62	-49.46	-13	-36.46	Pass	V
5777.94	149	84	-43.49	-13	-30.49	Pass	V
6532.64	149	300	-47.33	-13	-34.33	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.
1399.18	154	172	-51.96	-13	-41.45	Pass	H
1770.48	150	91	-53.55	-13	-37.85	Pass	H
3878.39	154	112	-44.94	-13	-35.2	Pass	H
5963.08	154	94	-43.39	-13	-30.39	Pass	H
6468.52	155	123	-47.18	-13	-32.24	Pass	H
8051.62	149	181	-45.41	-13	-30.22	Pass	H
1120.56	152	263	-54.46	-13	-44.9	Pass	V
1418.24	149	171	-52.82	-13	-43.63	Pass	V
3532.28	149	143	-46.25	-13	-35.94	Pass	V
3852.69	152	244	-47.35	-13	-36.01	Pass	V
5758.70	147	103	-48.48	-13	-33.75	Pass	V
6536.88	150	147	-43.67	-13	-32.41	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.
1419.53	150	275	-58.12	-13	-45.12	Pass	H
1771.62	151	25	-46.22	-13	-33.22	Pass	H
3913.08	145	137	-41.73	-13	-28.73	Pass	H
5852.34	147	349	-40.81	-13	-27.81	Pass	H
6419.88	154	258	-38.11	-13	-25.11	Pass	H
8064.09	147	305	-45.39	-13	-32.39	Pass	H
1186.26	147	287	-52.15	-13	-39.15	Pass	V
1376.69	152	127	-58.21	-13	-45.21	Pass	V
3640.96	154	240	-47.05	-13	-34.05	Pass	V
3785.27	147	192	-48.77	-13	-35.77	Pass	V
5711.85	155	31	-48.16	-13	-35.16	Pass	V
6619.64	153	261	-45.58	-13	-32.58	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.
1291.83	149	332	-55.06	-13	-42.06	Pass	H
1685.91	149	280	-50.20	-13	-37.20	Pass	H
3902.62	154	10	-47.08	-13	-34.08	Pass	H
5835.52	155	267	-47.30	-13	-34.30	Pass	H
6613.02	153	59	-42.83	-13	-29.83	Pass	H
8083.52	154	197	-38.98	-13	-25.98	Pass	H
1224.11	150	310	-53.25	-13	-40.25	Pass	V
1459.48	153	201	-57.36	-13	-44.36	Pass	V
3584.40	152	81	-53.26	-13	-40.26	Pass	V
3935.26	145	102	-50.10	-13	-37.10	Pass	V
5899.95	146	80	-48.08	-13	-35.08	Pass	V
6558.16	150	76	-46.80	-13	-33.80	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.
1301.93	148	61	-55.39	-13	-42.39	Pass	H
1715.82	152	57	-50.23	-13	-37.23	Pass	H
3768.24	152	69	-49.69	-13	-36.69	Pass	H
6024.22	148	298	-43.20	-13	-30.20	Pass	H
6533.36	149	241	-40.10	-13	-27.10	Pass	H
8002.85	152	106	-46.40	-13	-33.40	Pass	H
1180.48	149	95	-55.36	-13	-42.36	Pass	V
1388.93	150	50	-59.03	-13	-46.03	Pass	V
3625.37	147	117	-46.02	-13	-33.02	Pass	V
3816.37	150	179	-44.38	-13	-31.38	Pass	V
5771.53	154	49	-42.58	-13	-29.58	Pass	V
6504.66	149	65	-48.64	-13	-35.64	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.
1374.65	151	19	-51.98	-13	-38.98	Pass	H
1758.39	152	287	-50.52	-13	-37.52	Pass	H
3901.80	146	67	-45.84	-13	-32.84	Pass	H
5957.61	147	185	-39.11	-13	-26.11	Pass	H
6531.24	145	78	-44.97	-13	-31.97	Pass	H
7986.53	147	50	-45.07	-13	-32.07	Pass	H
1160.84	154	189	-53.75	-13	-40.75	Pass	V
1554.16	150	242	-59.52	-13	-46.52	Pass	V
3510.74	146	124	-49.94	-13	-36.94	Pass	V
3924.94	151	358	-48.44	-13	-35.44	Pass	V
5895.54	153	338	-43.59	-13	-30.59	Pass	V
6534.70	149	338	-49.79	-13	-36.79	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.
1311.05	149	330	-57.91	-13	-44.91	Pass	H
1718.48	154	10	-55.02	-13	-42.02	Pass	H
3998.71	153	63	-53.38	-13	-40.38	Pass	H
5840.59	146	248	-44.41	-13	-31.41	Pass	H
6507.19	153	47	-49.23	-13	-36.23	Pass	H
7899.40	150	348	-47.42	-13	-34.42	Pass	H
1269.32	150	123	-58.24	-13	-45.24	Pass	V
1413.03	154	310	-57.76	-13	-44.76	Pass	V
3582.82	147	37	-46.49	-13	-33.49	Pass	V
3765.18	145	94	-51.02	-13	-38.02	Pass	V
5755.51	151	21	-44.28	-13	-31.28	Pass	V
6569.65	146	261	-47.87	-13	-34.87	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.
1323.39	146	259	-56.25	-13	-43.25	Pass	H
1711.65	154	350	-53.07	-13	-40.07	Pass	H
3857.91	148	330	-50.89	-13	-37.89	Pass	H
5786.42	147	144	-43.76	-13	-30.76	Pass	H
6400.73	149	124	-49.06	-13	-36.06	Pass	H
8082.67	146	225	-47.07	-13	-34.07	Pass	H
1246.59	149	284	-55.64	-13	-42.64	Pass	V
1311.14	151	120	-59.58	-13	-46.58	Pass	V
3516.89	151	327	-52.79	-13	-39.79	Pass	V
3888.69	153	138	-54.35	-13	-41.35	Pass	V
5797.71	146	49	-52.77	-13	-39.77	Pass	V
6614.94	153	177	-48.34	-13	-35.34	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.
1260.33	155	148	-55.42	-13	-42.42	Pass	H
1647.24	146	203	-52.71	-13	-39.71	Pass	H
3743.58	153	309	-47.17	-13	-34.17	Pass	H
5813.25	154	180	-42.53	-13	-29.53	Pass	H
6490.62	146	218	-42.23	-13	-29.23	Pass	H
7990.05	147	268	-48.78	-13	-35.78	Pass	H
1215.62	149	110	-53.95	-13	-40.95	Pass	V
1313.78	149	271	-53.03	-13	-40.03	Pass	V
3488.87	153	352	-49.02	-13	-36.02	Pass	V
3834.31	153	257	-49.48	-13	-36.48	Pass	V
5695.82	151	351	-43.53	-13	-30.53	Pass	V
6537.84	148	121	-48.51	-13	-35.51	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=DC12.0V; Low Voltage LV=DC10.8V; High Voltage HV=DC13.2V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

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