



# TEST REPORT

Product Name: Dual-lens 4G Solar Camera  
FCC ID: 2BLRU-Q2D  
Trademark: N/A  
Model Number: ICAM365-Q2D-4G  
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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.: CTB25022202002RF01  
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
CTB25022202002RF01	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 <sup>-7</sup>

#### 4. PRODUCT INFORMATION AND TEST SETUP

##### 4.1 Product Information

Model(s):	ICAM365-Q2D-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: 23.74dBm FDD-LTE BAND 4: 22.82dBm FDD-LTE BAND 12: 23.62dBm FDD-LTE BAND 13: 23.97dBm
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, 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.

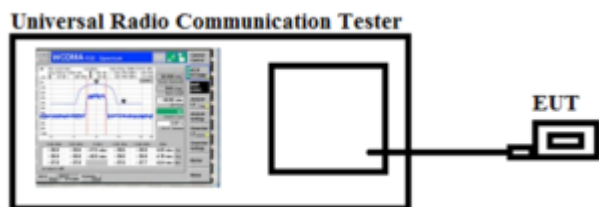
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

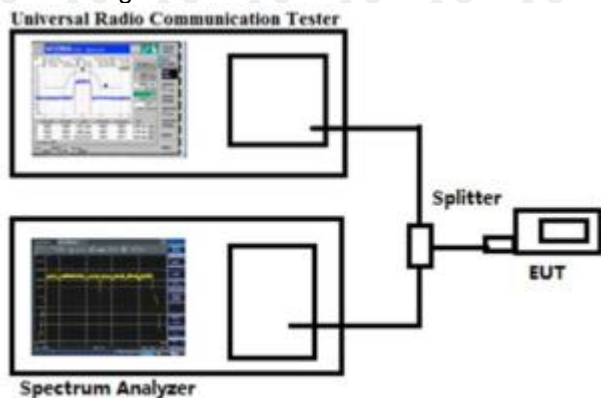
corresponding to the highest PAPR expected during periods of continuous transmission.

### 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.

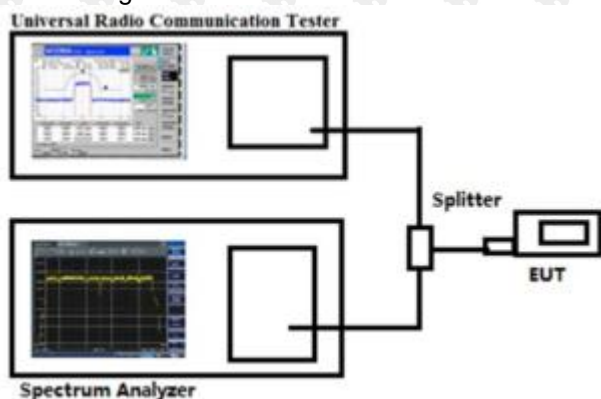
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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.

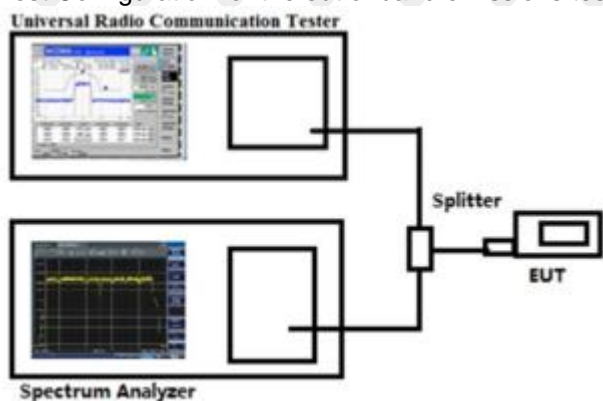
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  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  $43 + 10 \log(P)$  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.
1270.34	153	359	-54.99	-13	-41.99	Pass	H
1780.15	159	266	-49.28	-13	-36.28	Pass	H
3828.12	152	267	-48.30	-13	-35.30	Pass	H
5986.68	152	332	-42.18	-13	-29.18	Pass	H
6550.28	158	315	-43.49	-13	-30.49	Pass	H
8016.30	146	286	-41.08	-13	-28.08	Pass	H
1105.30	149	144	-52.39	-13	-39.39	Pass	V
1466.68	157	284	-56.43	-13	-43.43	Pass	V
3557.78	155	325	-51.05	-13	-38.05	Pass	V
3736.31	147	193	-49.05	-13	-36.05	Pass	V
5786.87	156	230	-49.29	-13	-36.29	Pass	V
6645.16	154	91	-48.68	-13	-35.68	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.
1330.85	150	258	-53.57	-13	-40.57	Pass	H
1633.65	146	4	-52.85	-13	-39.85	Pass	H
3891.65	150	75	-52.91	-13	-39.91	Pass	H
5776.59	146	268	-44.88	-13	-31.88	Pass	H
6481.14	149	219	-50.38	-13	-37.38	Pass	H
7943.36	151	217	-49.59	-13	-36.59	Pass	H
1212.50	149	323	-56.37	-13	-43.37	Pass	V
1451.06	148	10	-61.62	-13	-48.62	Pass	V
3521.63	147	341	-50.94	-13	-37.94	Pass	V
3978.91	148	193	-48.52	-13	-35.52	Pass	V
5770.50	150	2	-50.81	-13	-37.81	Pass	V
6597.72	150	192	-45.74	-13	-32.74	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.
1388.69	146	358	-56.62	-13	-43.62	Pass	H
1752.97	152	87	-50.93	-13	-37.93	Pass	H
3856.79	150	32	-43.77	-13	-30.77	Pass	H
5890.22	146	83	-43.05	-13	-30.05	Pass	H
6574.88	152	38	-39.77	-13	-26.77	Pass	H
7971.29	151	311	-46.94	-13	-33.94	Pass	H
1159.08	147	195	-54.20	-13	-41.20	Pass	V
1497.02	151	40	-59.17	-13	-46.17	Pass	V
3578.57	153	327	-50.81	-13	-37.81	Pass	V
3915.40	151	137	-47.40	-13	-34.40	Pass	V
5868.82	146	303	-45.85	-13	-32.85	Pass	V
6576.73	150	55	-45.45	-13	-32.45	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.
1336.96	148	227	-59.11	-13	-46.11	Pass	H
1697.47	152	138	-48.03	-13	-35.03	Pass	H
3881.71	152	265	-46.48	-13	-33.48	Pass	H
5980.50	151	312	-43.39	-13	-30.39	Pass	H
6647.89	152	299	-42.86	-13	-29.86	Pass	H
7982.81	150	292	-40.96	-13	-27.96	Pass	H
1155.03	152	335	-52.55	-13	-39.55	Pass	V
1401.81	148	19	-53.39	-13	-40.39	Pass	V
3531.56	148	66	-54.34	-13	-41.34	Pass	V
3917.74	146	9	-50.59	-13	-37.59	Pass	V
5865.19	146	66	-46.69	-13	-33.69	Pass	V
6625.99	152	58	-50.67	-13	-37.67	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.
1336.96	149	311	-50.75	-13	-41.45	Pass	H
1762.05	150	203	-50.42	-13	-37.85	Pass	H
3786.66	147	43	-50.95	-13	-35.2	Pass	H
5853.71	147	241	-45.16	-13	-30.39	Pass	H
6493.37	149	341	-45.88	-13	-32.24	Pass	H
8071.91	152	114	-43.91	-13	-30.22	Pass	H
1286.85	149	178	-58.82	-13	-44.9	Pass	V
1431.08	154	115	-57.92	-13	-43.63	Pass	V
3523.49	148	219	-47.78	-13	-35.94	Pass	V
3812.70	153	325	-48.59	-13	-36.01	Pass	V
5741.48	152	172	-44.54	-13	-33.75	Pass	V
6427.15	148	151	-46.68	-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.
1364.39	150	218	-58.53	-13	-45.53	Pass	H
1656.51	146	57	-52.10	-13	-39.10	Pass	H
3814.28	152	175	-43.80	-13	-30.80	Pass	H
5876.62	148	235	-43.77	-13	-30.77	Pass	H
6508.38	154	172	-41.01	-13	-28.01	Pass	H
8149.16	153	203	-48.64	-13	-35.64	Pass	H
1269.18	155	310	-51.86	-13	-38.86	Pass	V
1414.43	146	64	-61.70	-13	-48.70	Pass	V
3482.67	150	171	-46.84	-13	-33.84	Pass	V
3848.31	153	270	-52.78	-13	-39.78	Pass	V
5887.10	148	296	-48.15	-13	-35.15	Pass	V
6570.48	148	149	-47.84	-13	-34.84	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.
1357.69	146	156	-59.99	-13	-46.99	Pass	H
1777.99	152	1	-46.52	-13	-33.52	Pass	H
3903.87	151	116	-46.98	-13	-33.98	Pass	H
5934.49	149	339	-44.63	-13	-31.63	Pass	H
6596.94	149	24	-46.49	-13	-33.49	Pass	H
8055.59	151	156	-40.00	-13	-27.00	Pass	H
1142.73	147	357	-54.81	-13	-41.81	Pass	V
1409.22	149	9	-56.23	-13	-43.23	Pass	V
3666.00	154	156	-52.11	-13	-39.11	Pass	V
3984.48	150	220	-51.44	-13	-38.44	Pass	V
5828.65	151	104	-42.43	-13	-29.43	Pass	V
6650.21	150	295	-45.29	-13	-32.29	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.
1297.01	155	174	-51.13	-13	-38.13	Pass	H
1803.18	148	328	-51.44	-13	-38.44	Pass	H
3864.04	147	157	-44.75	-13	-31.75	Pass	H
5946.03	145	74	-40.45	-13	-27.45	Pass	H
6436.75	152	275	-42.29	-13	-29.29	Pass	H
8087.53	151	27	-42.10	-13	-29.10	Pass	H
1115.40	147	44	-56.57	-13	-43.57	Pass	V
1403.84	153	143	-56.94	-13	-43.94	Pass	V
3457.62	146	304	-50.10	-13	-37.10	Pass	V
3785.06	146	260	-44.16	-13	-31.16	Pass	V
5903.32	150	101	-40.98	-13	-27.98	Pass	V
6581.36	147	94	-42.84	-13	-29.84	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.
1277.56	151	233	-51.53	-13	-38.53	Pass	H
1615.67	154	41	-49.88	-13	-36.88	Pass	H
3910.72	150	45	-44.18	-13	-31.18	Pass	H
5836.97	151	152	-37.77	-13	-24.77	Pass	H
6522.43	155	168	-44.58	-13	-31.58	Pass	H
8055.27	147	203	-42.07	-13	-29.07	Pass	H
1206.48	153	300	-56.99	-13	-43.99	Pass	V
1361.79	152	233	-55.38	-13	-42.38	Pass	V
3473.46	153	143	-48.10	-13	-35.10	Pass	V
3736.66	147	288	-48.32	-13	-35.32	Pass	V
5809.55	154	6	-43.53	-13	-30.53	Pass	V
6473.48	151	129	-44.90	-13	-31.90	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.
1423.83	155	62	-54.79	-13	-41.79	Pass	H
1719.26	146	79	-52.21	-13	-39.21	Pass	H
3867.79	152	255	-47.50	-13	-34.50	Pass	H
5892.24	151	46	-46.03	-13	-33.03	Pass	H
6460.43	154	197	-45.31	-13	-32.31	Pass	H
7914.17	147	33	-47.07	-13	-34.07	Pass	H
1160.61	146	57	-58.36	-13	-45.36	Pass	V
1502.29	153	130	-56.35	-13	-43.35	Pass	V
3500.20	153	226	-50.33	-13	-37.33	Pass	V
3763.36	145	206	-48.93	-13	-35.93	Pass	V
5873.00	150	52	-47.92	-13	-34.92	Pass	V
6584.44	147	42	-49.70	-13	-36.70	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.
1394.45	153	134	-59.08	-13	-46.08	Pass	H
1617.89	151	15	-53.83	-13	-40.83	Pass	H
3861.99	145	106	-49.06	-13	-36.06	Pass	H
5813.44	149	86	-43.15	-13	-30.15	Pass	H
6554.85	147	260	-49.88	-13	-36.88	Pass	H
7958.49	153	191	-42.25	-13	-29.25	Pass	H
1269.11	148	131	-51.67	-13	-38.67	Pass	V
1357.76	150	234	-61.07	-13	-48.07	Pass	V
3682.25	152	35	-52.41	-13	-39.41	Pass	V
3996.55	149	282	-52.01	-13	-39.01	Pass	V
5902.02	154	315	-48.81	-13	-35.81	Pass	V
6546.02	146	305	-47.56	-13	-34.56	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.
1259.38	149	296	-56.45	-13	-43.45	Pass	H
1656.77	153	354	-51.70	-13	-38.70	Pass	H
3761.14	155	120	-47.63	-13	-34.63	Pass	H
5864.96	154	19	-43.01	-13	-30.01	Pass	H
6495.08	147	344	-46.15	-13	-33.15	Pass	H
7988.72	149	139	-43.28	-13	-30.28	Pass	H
1255.57	150	166	-52.17	-13	-39.17	Pass	V
1372.50	147	162	-53.69	-13	-40.69	Pass	V
3467.86	146	73	-53.42	-13	-40.42	Pass	V
3891.97	154	153	-43.25	-13	-30.25	Pass	V
5774.89	150	147	-42.55	-13	-29.55	Pass	V
6516.27	148	48	-49.86	-13	-36.86	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.
1312.15	142	288	-55.67	-13	-42.67	Pass	H
1789.62	152	122	-47.17	-13	-34.17	Pass	H
3893.75	153	27	-48.27	-13	-35.27	Pass	H
5947.15	157	12	-42.69	-13	-29.69	Pass	H
6426.12	153	43	-45.18	-13	-32.18	Pass	H
8107.91	158	196	-45.03	-13	-32.03	Pass	H
1170.61	152	110	-57.03	-13	-44.03	Pass	V
1414.38	156	189	-59.88	-13	-46.88	Pass	V
3473.34	158	250	-49.84	-13	-36.84	Pass	V
3766.28	149	172	-51.11	-13	-38.11	Pass	V
5773.13	140	136	-50.40	-13	-37.40	Pass	V
6647.69	149	48	-45.42	-13	-32.42	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.
1288.11	150	147	-58.79	-13	-45.79	Pass	H
1791.18	146	277	-49.82	-13	-36.82	Pass	H
3814.92	150	220	-53.48	-13	-40.48	Pass	H
5913.95	146	137	-47.28	-13	-34.28	Pass	H
6368.89	149	241	-46.89	-13	-33.89	Pass	H
7957.14	151	138	-48.39	-13	-35.39	Pass	H
1332.77	149	164	-56.13	-13	-43.13	Pass	V
1431.48	148	263	-57.45	-13	-44.45	Pass	V
3507.55	147	117	-51.23	-13	-38.23	Pass	V
3835.33	148	324	-48.74	-13	-35.74	Pass	V
5820.33	150	151	-49.41	-13	-36.41	Pass	V
6538.71	150	338	-45.39	-13	-32.39	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.
1409.26	149	10	-57.61	-13	-44.61	Pass	H
1740.66	150	45	-54.76	-13	-41.76	Pass	H
3804.53	149	330	-43.03	-13	-30.03	Pass	H
5977.45	155	188	-41.89	-13	-28.89	Pass	H
6563.33	149	269	-42.71	-13	-29.71	Pass	H
7977.22	152	201	-46.18	-13	-33.18	Pass	H
1264.55	146	26	-53.57	-13	-40.57	Pass	V
1462.30	150	161	-58.10	-13	-45.10	Pass	V
3548.85	153	159	-52.26	-13	-39.26	Pass	V
3915.69	150	30	-50.02	-13	-37.02	Pass	V
5723.76	149	181	-41.42	-13	-28.42	Pass	V
6657.28	151	147	-49.89	-13	-36.89	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.
1387.10	152	110	-59.19	-13	-46.19	Pass	H
1741.31	147	184	-47.11	-13	-34.11	Pass	H
3899.26	152	337	-49.01	-13	-36.01	Pass	H
5870.84	152	37	-42.44	-13	-29.44	Pass	H
6508.28	153	288	-42.95	-13	-29.95	Pass	H
7942.02	149	161	-43.30	-13	-30.30	Pass	H
1083.72	148	6	-49.89	-13	-36.89	Pass	V
1436.68	146	101	-57.14	-13	-44.14	Pass	V
3547.12	147	49	-50.10	-13	-37.10	Pass	V
3865.62	146	161	-48.54	-13	-35.54	Pass	V
5806.99	151	148	-47.50	-13	-34.50	Pass	V
6522.12	146	317	-48.84	-13	-35.84	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.
1294.29	151	179	-51.31	-13	-41.45	Pass	H
1722.50	151	129	-52.32	-13	-37.85	Pass	H
3921.59	154	224	-50.48	-13	-35.2	Pass	H
5985.49	155	331	-45.14	-13	-30.39	Pass	H
6571.03	145	306	-45.75	-13	-32.24	Pass	H
8121.57	150	342	-44.71	-13	-30.22	Pass	H
1211.12	150	321	-57.64	-13	-44.9	Pass	V
1463.19	154	266	-55.65	-13	-43.63	Pass	V
3488.14	149	14	-49.59	-13	-35.94	Pass	V
3860.43	152	246	-48.81	-13	-36.01	Pass	V
5862.36	148	154	-43.70	-13	-33.75	Pass	V
6442.96	148	293	-44.46	-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.
1246.52	146	169	-54.40	-13	-41.40	Pass	H
1793.92	152	98	-51.83	-13	-38.83	Pass	H
3961.76	154	69	-44.37	-13	-31.37	Pass	H
5983.23	151	19	-44.41	-13	-31.41	Pass	H
6463.35	154	137	-40.56	-13	-27.56	Pass	H
8138.46	146	324	-47.12	-13	-34.12	Pass	H
1128.21	148	157	-51.77	-13	-38.77	Pass	V
1405.14	152	303	-59.07	-13	-46.07	Pass	V
3508.82	153	109	-49.88	-13	-36.88	Pass	V
3925.53	146	329	-52.69	-13	-39.69	Pass	V
5867.17	153	294	-50.89	-13	-37.89	Pass	V
6582.99	152	270	-46.26	-13	-33.26	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.
1271.41	153	352	-57.86	-13	-44.86	Pass	H
1610.78	151	153	-47.59	-13	-34.59	Pass	H
3834.77	147	312	-48.31	-13	-35.31	Pass	H
5885.51	151	254	-46.44	-13	-33.44	Pass	H
6458.26	146	61	-43.84	-13	-30.84	Pass	H
7924.81	150	320	-43.09	-13	-30.09	Pass	H
1199.11	152	348	-52.17	-13	-39.17	Pass	V
1475.13	146	98	-58.90	-13	-45.90	Pass	V
3660.00	153	310	-48.94	-13	-35.94	Pass	V
3838.46	149	70	-53.49	-13	-40.49	Pass	V
5845.99	147	82	-46.26	-13	-33.26	Pass	V
6643.83	151	240	-44.51	-13	-31.51	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.
1431.81	149	63	-56.00	-13	-43.00	Pass	H
1807.99	154	233	-49.69	-13	-36.69	Pass	H
3878.39	146	191	-50.05	-13	-37.05	Pass	H
5861.25	151	130	-44.31	-13	-31.31	Pass	H
6504.31	152	276	-41.95	-13	-28.95	Pass	H
8097.93	153	329	-42.28	-13	-29.28	Pass	H
1213.62	154	161	-58.48	-13	-45.48	Pass	V
1453.16	149	138	-58.28	-13	-45.28	Pass	V
3600.85	152	126	-47.19	-13	-34.19	Pass	V
3907.61	146	15	-44.99	-13	-31.99	Pass	V
5855.18	149	313	-44.51	-13	-31.51	Pass	V
6580.41	150	203	-48.56	-13	-35.56	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.
1322.05	148	309	-54.42	-13	-41.42	Pass	H
1626.93	153	219	-49.63	-13	-36.63	Pass	H
3845.45	148	241	-40.19	-13	-27.19	Pass	H
5922.53	151	220	-42.42	-13	-29.42	Pass	H
6431.86	153	8	-40.40	-13	-27.40	Pass	H
8075.57	146	108	-42.10	-13	-29.10	Pass	H
1243.77	151	302	-54.64	-13	-41.64	Pass	V
1558.78	148	243	-56.46	-13	-43.46	Pass	V
3599.06	147	242	-49.07	-13	-36.07	Pass	V
3820.28	150	314	-47.68	-13	-34.68	Pass	V
5721.76	153	203	-44.95	-13	-31.95	Pass	V
6519.75	155	8	-48.79	-13	-35.79	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.
1266.19	146	345	-54.24	-13	-41.24	Pass	H
1652.61	155	65	-52.89	-13	-39.89	Pass	H
3946.41	151	81	-49.13	-13	-36.13	Pass	H
5951.04	154	88	-42.75	-13	-29.75	Pass	H
6510.48	145	227	-45.34	-13	-32.34	Pass	H
7927.21	151	358	-47.83	-13	-34.83	Pass	H
1240.22	146	353	-57.13	-13	-44.13	Pass	V
1463.68	155	218	-53.53	-13	-40.53	Pass	V
3545.72	149	36	-49.78	-13	-36.78	Pass	V
3753.27	145	198	-47.18	-13	-34.18	Pass	V
5704.86	153	130	-45.52	-13	-32.52	Pass	V
6493.11	154	184	-50.82	-13	-37.82	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.
1242.38	149	259	-54.49	-13	-41.49	Pass	H
1636.80	153	65	-55.19	-13	-42.19	Pass	H
3876.87	152	139	-45.34	-13	-32.34	Pass	H
5831.62	152	336	-44.93	-13	-31.93	Pass	H
6419.71	152	170	-51.89	-13	-38.89	Pass	H
7927.63	147	18	-44.67	-13	-31.67	Pass	H
1288.40	150	14	-53.08	-13	-40.08	Pass	V
1327.51	151	36	-63.88	-13	-50.88	Pass	V
3649.52	155	332	-49.36	-13	-36.36	Pass	V
4009.69	153	296	-56.02	-13	-43.02	Pass	V
5866.29	147	49	-48.46	-13	-35.46	Pass	V
6574.67	146	254	-51.78	-13	-38.78	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.
1276.85	148	29	-56.58	-13	-43.58	Pass	H
1658.18	151	101	-51.13	-13	-38.13	Pass	H
3756.50	146	295	-48.47	-13	-35.47	Pass	H
5887.68	147	116	-41.57	-13	-28.57	Pass	H
6524.30	155	248	-40.81	-13	-27.81	Pass	H
7923.25	154	260	-44.76	-13	-31.76	Pass	H
1253.76	150	67	-56.38	-13	-43.38	Pass	V
1392.88	145	260	-50.11	-13	-37.11	Pass	V
3476.35	150	143	-49.46	-13	-36.46	Pass	V
3827.96	146	169	-42.77	-13	-29.77	Pass	V
5704.98	146	257	-44.98	-13	-31.98	Pass	V
6566.38	152	118	-46.79	-13	-33.79	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=DC3.33V; High Voltage HV=DC4.07V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

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