

TEST REPORT

Product Name: Asset GPS tracker
FCC ID: 2AUVX-NT27E
Trademark: N/A
Model Number: NT27E
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Sample Received Date: May. 13, 2024
Sample tested Date: May. 13, 2024 to May. 27, 2024
Issue Date: May. 27, 2024
Report No.: CTB240527009RF
Test Standards: FCC Part 2, 22, 24E, 27
Test Results: PASS
Remark: This is CATM1 radio test report.

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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
CTB240527009RF	May. 27, 2024	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

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

3. MEASUREMENT UNCERTAINTY

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

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

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	NT27E
Model Description:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	CAT M1 BAND 2: 1850-1910MHz CAT M1 BAND 4: 1710-1755MHz CAT M1 BAND 12: 699-716MHz CAT M1 BAND 13: 777-787MHz
Max. RF output power:	CAT M1 BAND 2: 20.81dBm CAT M1 BAND 4: 20.99dBm CAT M1 BAND 12: 20.98dBm CAT M1 BAND 13: 20.42dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	Internal antenna
Antenna Gain:	CAT M1 BAND 2: 3.83dBi CAT M1 BAND 4: 3.83dBi CAT M1 BAND 12: -1.63dBi CAT M1 BAND 13: -1.63dBi
Ratings:	DC 3.6V 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

Item	Equipment	Mfr/Brand	Model/Type No.	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	CAT M1 BAND 2	Low, Middle, High Channels
TM2	CAT M1 BAND 4	Low, Middle, High Channels
TM3	CAT M1 BAND 12	Low, Middle, High Channels
TM4	CAT M1 BAND 13	Low, Middle, High Channels

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	3.6V
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.

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2024.07.05
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2024.07.05
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2024.07.05
4	Communication test set	R&S	CMW500	108058	V3.5.80	2024.07.05
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2024.07.05
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2024.07.05
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2024.07.05
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2024.07.06
9	2.4 GHz Filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	/	2024.07.05
10	5 GHz Filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	/	2024.07.06
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2024.07.06
12	BT&WI-FI Automatic test software	Microwave	MTS8000	Ver. 2.0.0.0	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2024.10.30
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2024.07.05
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/
16	966 chamber	C.R.T.	966	/	/	2024.08.11
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2024.07.05
18	Amplifier	HP	8447E	2945A02747	/	2024.07.05
19	Amplifier	Agilent	8449B	3008A01838	/	2024.07.05
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2024.07.08
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2024.07.08

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

6. RF EXPOSURE

6.1 Standard Applicable

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

6.2 Test Result

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

7. RF OUTPUT POWER

7.1 Standard Applicable

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

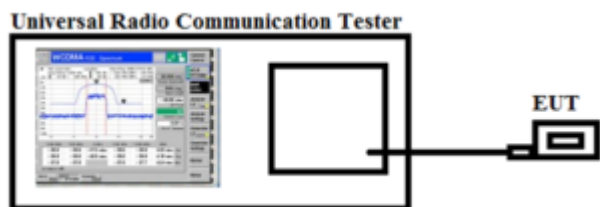
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

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

7.2 Test Procedure

Conducted output power test method:



Radiated power test method:

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

7.3 Summary of Test Results/Plots

Please refer to Appendix 1: Conducted output power

Test result: Pass

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

8.1 Standard Applicable

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

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

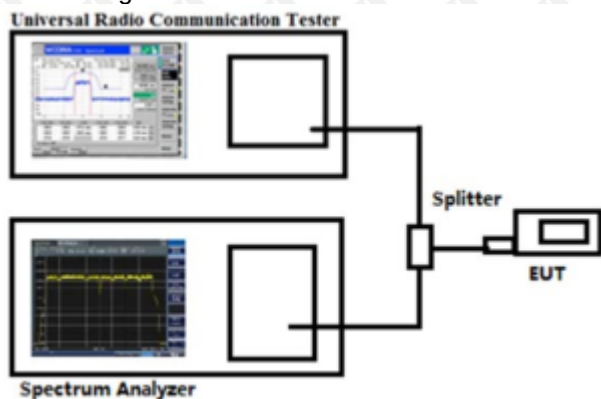
corresponding to the highest PAPR expected during periods of continuous transmission.

8.2 Test Procedure

According with KDB 971168

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

Test Configuration for the emission bandwidth testing:



8.3 Summary of Test Results

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

Test result: Pass

9. EMISSION BANDWIDTH

9.1 Standard Applicable

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

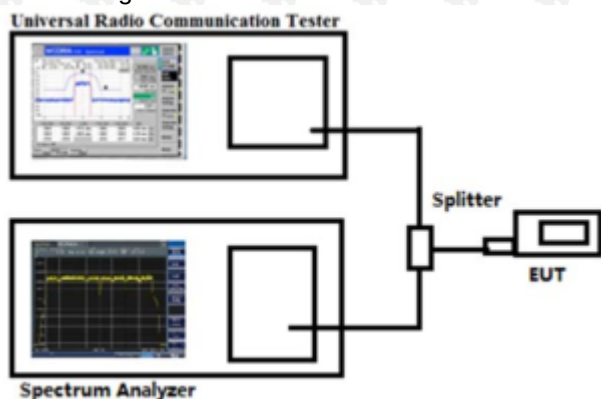
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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

9.2 Test Procedure

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

Test Configuration for the emission bandwidth testing:



9.3 Summary of Test Results/Plots

Please refer to Appendix 4: 26dB Bandwidth and Occupied Bandwidth

Test result: Pass

10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

10.1 Standard Applicable

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

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

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

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

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

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

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

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

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

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

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

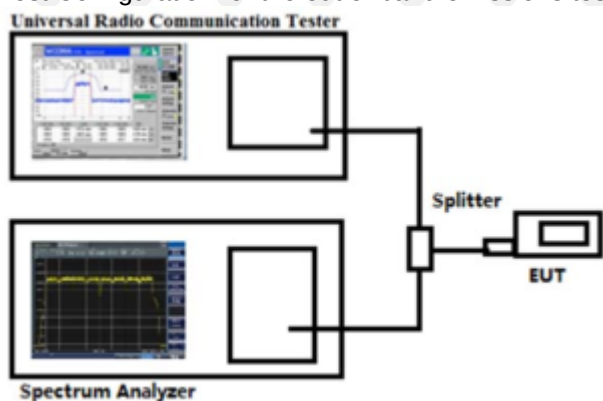
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ 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.
1371.17	141	85	-58.82	-13	-45.82	Pass	H
1794.74	154	281	-50.45	-13	-37.45	Pass	H
3924.31	157	73	-48.24	-13	-35.24	Pass	H
5918.12	148	346	-42.95	-13	-29.95	Pass	H
6514.26	151	124	-45.83	-13	-32.83	Pass	H
8031.47	146	287	-40.85	-13	-27.85	Pass	H
1243.48	149	10	-54.79	-13	-41.79	Pass	V
1464.52	150	78	-57.29	-13	-44.29	Pass	V
3531.07	158	199	-50.06	-13	-37.06	Pass	V
3779.09	156	190	-52.15	-13	-39.15	Pass	V
5860.57	152	228	-48.50	-13	-35.50	Pass	V
6486.63	158	245	-46.67	-13	-33.67	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.
1196.12	150	7	-56.15	-13	-43.15	Pass	H
1738.16	146	212	-54.56	-13	-41.56	Pass	H
3967.75	150	119	-50.42	-13	-37.42	Pass	H
5947.70	146	139	-44.36	-13	-31.36	Pass	H
6511.06	149	188	-51.56	-13	-38.56	Pass	H
8098.35	151	30	-49.08	-13	-36.08	Pass	H
1293.29	149	14	-55.97	-13	-42.97	Pass	V
1493.87	148	69	-58.90	-13	-45.90	Pass	V
3579.64	147	223	-54.10	-13	-41.10	Pass	V
3940.73	148	261	-49.62	-13	-36.62	Pass	V
5754.90	150	315	-51.05	-13	-38.05	Pass	V
6600.67	150	227	-51.08	-13	-38.08	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.
1337.70	151	252	-58.78	-13	-45.78	Pass	H
1570.80	149	9	-49.42	-13	-36.42	Pass	H
3777.53	146	325	-43.49	-13	-30.49	Pass	H
5944.04	148	57	-41.07	-13	-28.07	Pass	H
6545.34	150	358	-40.77	-13	-27.77	Pass	H
7905.23	150	50	-43.30	-13	-30.30	Pass	H
1189.51	155	213	-56.63	-13	-43.63	Pass	V
1425.44	155	230	-56.95	-13	-43.95	Pass	V
3453.20	152	46	-55.32	-13	-42.32	Pass	V
3833.73	155	120	-46.21	-13	-33.21	Pass	V
5739.47	152	314	-40.49	-13	-27.49	Pass	V
6573.75	155	226	-49.19	-13	-36.19	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.
1369.93	153	250	-59.79	-13	-46.79	Pass	H
1734.42	146	307	-44.94	-13	-31.94	Pass	H
3945.56	150	347	-48.55	-13	-35.55	Pass	H
5878.66	155	101	-45.55	-13	-32.55	Pass	H
6640.17	145	338	-42.77	-13	-29.77	Pass	H
7947.33	153	238	-40.92	-13	-27.92	Pass	H
1154.34	152	130	-53.09	-13	-40.09	Pass	V
1489.80	147	4	-54.72	-13	-41.72	Pass	V
3542.65	145	79	-49.87	-13	-36.87	Pass	V
3918.54	151	38	-53.60	-13	-40.60	Pass	V
5916.62	146	170	-43.34	-13	-30.34	Pass	V
6563.96	150	359	-51.06	-13	-38.06	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.
1352.80	154	305	-55.47	-13	-41.45	Pass	H
1662.24	153	341	-51.64	-13	-37.85	Pass	H
3783.99	147	146	-49.96	-13	-35.2	Pass	H
5840.17	149	164	-42.28	-13	-30.39	Pass	H
6545.57	149	315	-47.43	-13	-32.24	Pass	H
8097.77	147	150	-44.90	-13	-30.22	Pass	H
1119.15	148	109	-56.83	-13	-44.9	Pass	V
1438.86	148	252	-57.90	-13	-43.63	Pass	V
3610.57	146	196	-50.61	-13	-35.94	Pass	V
3885.99	145	88	-48.07	-13	-36.01	Pass	V
5797.11	150	115	-47.68	-13	-33.75	Pass	V
6612.60	154	65	-42.28	-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.
1309.06	148	285	-58.40	-13	-45.40	Pass	H
1763.99	149	282	-51.93	-13	-38.93	Pass	H
3968.21	148	343	-43.74	-13	-30.74	Pass	H
5881.41	148	99	-44.01	-13	-31.01	Pass	H
6515.41	150	83	-43.07	-13	-30.07	Pass	H
8177.77	149	354	-42.43	-13	-29.43	Pass	H
1258.74	150	270	-52.63	-13	-39.63	Pass	V
1515.82	150	301	-56.47	-13	-43.47	Pass	V
3448.84	145	214	-51.91	-13	-38.91	Pass	V
3901.97	151	275	-51.72	-13	-38.72	Pass	V
5753.42	152	212	-45.97	-13	-32.97	Pass	V
6596.25	148	320	-46.91	-13	-33.91	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.
1351.87	155	327	-54.44	-13	-41.44	Pass	H
1617.70	147	150	-46.71	-13	-33.71	Pass	H
3780.62	148	263	-52.29	-13	-39.29	Pass	H
5897.57	153	127	-44.02	-13	-31.02	Pass	H
6512.94	146	319	-43.96	-13	-30.96	Pass	H
7914.83	150	174	-38.93	-13	-25.93	Pass	H
1192.35	148	274	-55.46	-13	-42.46	Pass	V
1488.22	153	243	-56.54	-13	-43.54	Pass	V
3496.72	150	235	-46.93	-13	-33.93	Pass	V
3827.13	151	297	-51.14	-13	-38.14	Pass	V
5875.24	146	146	-42.19	-13	-29.19	Pass	V
6643.40	150	109	-45.03	-13	-32.03	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.
1296.23	151	142	-51.81	-13	-38.81	Pass	H
1641.97	151	319	-51.61	-13	-38.61	Pass	H
3809.72	151	172	-47.35	-13	-34.35	Pass	H
6010.71	152	338	-44.01	-13	-31.01	Pass	H
6475.56	148	355	-42.43	-13	-29.43	Pass	H
8110.28	150	306	-47.76	-13	-34.76	Pass	H
1142.54	154	237	-55.85	-13	-42.85	Pass	V
1314.83	153	78	-61.81	-13	-48.81	Pass	V
3628.19	145	117	-51.32	-13	-38.32	Pass	V
3810.79	152	352	-44.92	-13	-31.92	Pass	V
5877.25	147	46	-42.52	-13	-29.52	Pass	V
6468.59	155	210	-46.78	-13	-33.78	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.
1363.76	149	165	-50.97	-13	-37.97	Pass	H
1651.00	146	208	-47.28	-13	-34.28	Pass	H
3810.80	146	4	-45.22	-13	-32.22	Pass	H
5833.77	150	198	-43.73	-13	-30.73	Pass	H
6575.00	146	341	-41.41	-13	-28.41	Pass	H
8143.12	150	235	-45.56	-13	-32.56	Pass	H
1297.13	146	292	-51.29	-13	-38.29	Pass	V
1372.07	150	158	-53.46	-13	-40.46	Pass	V
3516.82	149	55	-51.24	-13	-38.24	Pass	V
3808.25	150	319	-48.76	-13	-35.76	Pass	V
5755.43	146	118	-49.65	-13	-36.65	Pass	V
6491.58	150	155	-47.69	-13	-34.69	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.
1432.71	150	78	-57.47	-13	-44.47	Pass	H
1817.04	149	291	-54.00	-13	-41.00	Pass	H
3810.28	151	213	-47.28	-13	-34.28	Pass	H
5894.14	150	89	-48.54	-13	-35.54	Pass	H
6575.84	151	329	-48.26	-13	-35.26	Pass	H
7966.08	148	138	-49.89	-13	-36.89	Pass	H
1154.01	149	99	-54.28	-13	-41.28	Pass	V
1463.37	148	217	-57.38	-13	-44.38	Pass	V
3602.63	150	12	-49.17	-13	-36.17	Pass	V
3818.11	150	137	-46.47	-13	-33.47	Pass	V
5890.76	146	356	-47.71	-13	-34.71	Pass	V
6459.42	146	95	-46.19	-13	-33.19	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.
1392.63	150	142	-54.20	-13	-41.20	Pass	H
1811.92	146	280	-50.93	-13	-37.93	Pass	H
3932.13	150	330	-45.22	-13	-32.22	Pass	H
5921.56	146	194	-42.17	-13	-29.17	Pass	H
6543.92	149	260	-52.15	-13	-39.15	Pass	H
7952.50	151	31	-43.53	-13	-30.53	Pass	H
1200.45	149	4	-57.31	-13	-44.31	Pass	V
1356.54	148	257	-63.82	-13	-50.82	Pass	V
3520.03	147	55	-48.14	-13	-35.14	Pass	V
3882.68	148	273	-55.96	-13	-42.96	Pass	V
5738.02	150	136	-53.31	-13	-40.31	Pass	V
6436.33	150	16	-45.54	-13	-32.54	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.
1259.53	149	156	-56.25	-13	-43.25	Pass	H
1606.71	149	170	-49.24	-13	-36.24	Pass	H
3770.51	149	127	-45.06	-13	-32.06	Pass	H
5850.86	146	42	-45.86	-13	-32.86	Pass	H
6435.89	147	69	-39.54	-13	-26.54	Pass	H
7950.09	151	110	-49.04	-13	-36.04	Pass	H
1211.63	148	61	-51.81	-13	-38.81	Pass	V
1375.93	147	266	-54.00	-13	-41.00	Pass	V
3511.98	148	303	-51.60	-13	-38.60	Pass	V
3831.07	149	195	-48.41	-13	-35.41	Pass	V
5790.15	147	323	-42.56	-13	-29.56	Pass	V
6502.85	146	325	-46.04	-13	-33.04	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.
1285.10	147	179	-57.08	-13	-44.08	Pass	H
1784.48	158	195	-48.64	-13	-35.64	Pass	H
3844.01	152	320	-45.38	-13	-32.38	Pass	H
5827.07	141	257	-43.40	-13	-30.40	Pass	H
6431.33	149	201	-42.07	-13	-29.07	Pass	H
8099.83	152	254	-43.77	-13	-30.77	Pass	H
1167.84	149	140	-54.31	-13	-41.31	Pass	V
1484.98	159	356	-57.74	-13	-44.74	Pass	V
3504.72	151	187	-52.05	-13	-39.05	Pass	V
3893.73	149	267	-50.70	-13	-37.70	Pass	V
5726.29	150	94	-49.38	-13	-36.38	Pass	V
6534.21	147	26	-47.74	-13	-34.74	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.
1394.31	150	254	-55.30	-13	-42.30	Pass	H
1677.04	146	342	-49.88	-13	-36.88	Pass	H
3943.68	150	205	-48.01	-13	-35.01	Pass	H
5929.04	146	222	-47.84	-13	-34.84	Pass	H
6446.29	149	313	-47.49	-13	-34.49	Pass	H
8081.88	151	260	-49.61	-13	-36.61	Pass	H
1324.26	149	234	-55.28	-13	-42.28	Pass	V
1409.38	148	107	-59.24	-13	-46.24	Pass	V
3516.11	147	204	-50.96	-13	-37.96	Pass	V
3997.10	148	217	-52.64	-13	-39.64	Pass	V
5821.14	150	178	-47.59	-13	-34.59	Pass	V
6604.35	150	293	-46.45	-13	-33.45	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.
1407.05	149	46	-55.47	-13	-42.47	Pass	H
1765.15	151	222	-54.31	-13	-41.31	Pass	H
3938.08	149	102	-45.80	-13	-32.80	Pass	H
5833.12	147	46	-39.05	-13	-26.05	Pass	H
6606.07	153	99	-41.51	-13	-28.51	Pass	H
8099.15	145	244	-46.88	-13	-33.88	Pass	H
1295.16	149	192	-57.32	-13	-44.32	Pass	V
1397.54	153	67	-54.48	-13	-41.48	Pass	V
3603.75	153	122	-50.45	-13	-37.45	Pass	V
3883.82	147	120	-49.51	-13	-36.51	Pass	V
5772.90	153	125	-41.34	-13	-28.34	Pass	V
6496.00	149	352	-48.46	-13	-35.46	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.
1363.30	146	167	-58.14	-13	-45.14	Pass	H
1716.57	145	140	-45.49	-13	-32.49	Pass	H
3924.64	153	47	-51.14	-13	-38.14	Pass	H
5972.82	154	24	-45.37	-13	-32.37	Pass	H
6650.18	149	159	-43.67	-13	-30.67	Pass	H
7970.67	151	65	-40.67	-13	-27.67	Pass	H
1219.09	149	50	-51.65	-13	-38.65	Pass	V
1407.33	148	32	-57.85	-13	-44.85	Pass	V
3644.12	147	203	-49.70	-13	-36.70	Pass	V
3909.36	148	20	-53.36	-13	-40.36	Pass	V
5936.64	150	293	-44.31	-13	-31.31	Pass	V
6516.87	151	28	-47.34	-13	-34.34	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.
1427.45	146	130	-51.77	-13	-41.45	Pass	H
1761.00	150	312	-47.56	-13	-37.85	Pass	H
3782.07	152	108	-47.50	-13	-35.2	Pass	H
5982.89	150	347	-41.14	-13	-30.39	Pass	H
6454.47	145	54	-46.79	-13	-32.24	Pass	H
8041.46	148	68	-43.78	-13	-30.22	Pass	H
1207.68	154	47	-57.00	-13	-44.9	Pass	V
1458.28	145	233	-55.33	-13	-43.63	Pass	V
3537.66	147	122	-47.92	-13	-35.94	Pass	V
3919.97	154	335	-48.72	-13	-36.01	Pass	V
5809.03	153	324	-49.12	-13	-33.75	Pass	V
6446.06	149	169	-45.52	-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.
1295.57	147	162	-55.86	-13	-42.86	Pass	H
1723.37	149	167	-45.75	-13	-32.75	Pass	H
4000.93	151	153	-42.04	-13	-29.04	Pass	H
5877.87	146	128	-41.44	-13	-28.44	Pass	H
6549.27	148	1	-37.68	-13	-24.68	Pass	H
8068.01	147	147	-44.99	-13	-31.99	Pass	H
1203.24	151	306	-57.55	-13	-44.55	Pass	V
1553.22	153	169	-55.54	-13	-42.54	Pass	V
3460.71	147	114	-51.33	-13	-38.33	Pass	V
3835.52	153	309	-52.31	-13	-39.31	Pass	V
5757.72	150	203	-51.05	-13	-38.05	Pass	V
6613.06	148	3	-48.77	-13	-35.77	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 23205 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1402.51	150	126	-55.42	-13	-42.42	Pass	H
1654.78	154	5	-48.59	-13	-35.59	Pass	H
3913.28	153	150	-52.59	-13	-39.59	Pass	H
5957.48	155	293	-46.05	-13	-33.05	Pass	H
6559.17	152	122	-43.09	-13	-30.09	Pass	H
8003.55	145	5	-39.77	-13	-26.77	Pass	H
1154.60	153	254	-54.11	-13	-41.11	Pass	V
1430.21	148	108	-57.59	-13	-44.59	Pass	V
3541.67	150	244	-48.55	-13	-35.55	Pass	V
3910.52	152	183	-49.19	-13	-36.19	Pass	V
5813.39	155	333	-42.40	-13	-29.40	Pass	V
6683.31	146	242	-51.10	-13	-38.10	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.
1421.97	146	318	-52.83	-13	-39.83	Pass	H
1672.39	151	351	-47.81	-13	-34.81	Pass	H
3894.02	149	332	-49.05	-13	-36.05	Pass	H
5888.71	146	261	-44.81	-13	-31.81	Pass	H
6600.24	146	162	-40.50	-13	-27.50	Pass	H
8135.97	148	328	-46.42	-13	-33.42	Pass	H
1133.54	146	59	-57.59	-13	-44.59	Pass	V
1296.52	148	213	-58.10	-13	-45.10	Pass	V
3503.80	153	302	-46.21	-13	-33.21	Pass	V
3930.63	151	253	-47.69	-13	-34.69	Pass	V
5807.62	150	133	-41.96	-13	-28.96	Pass	V
6430.98	153	13	-46.82	-13	-33.82	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.
1369.61	149	165	-50.43	-13	-37.43	Pass	H
1614.55	146	208	-48.67	-13	-35.67	Pass	H
3920.65	146	4	-46.40	-13	-33.40	Pass	H
5888.12	150	198	-39.53	-13	-26.53	Pass	H
6528.73	146	341	-43.91	-13	-30.91	Pass	H
8061.43	150	235	-41.36	-13	-28.36	Pass	H
1206.51	146	292	-53.30	-13	-40.30	Pass	V
1389.39	150	158	-55.04	-13	-42.04	Pass	V
3536.46	149	55	-49.95	-13	-36.95	Pass	V
3757.40	150	319	-50.67	-13	-37.67	Pass	V
5900.29	146	118	-45.87	-13	-32.87	Pass	V
6565.01	150	155	-44.70	-13	-31.70	Pass	V

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Band 13 23205 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1317.71	150	78	-55.48	-13	-42.48	Pass	H
1722.59	149	291	-52.98	-13	-39.98	Pass	H
3953.59	151	213	-49.84	-13	-36.84	Pass	H
5889.94	150	89	-46.99	-13	-33.99	Pass	H
6497.30	151	329	-47.36	-13	-34.36	Pass	H
8012.14	148	138	-47.35	-13	-34.35	Pass	H
1207.04	149	99	-59.91	-13	-46.91	Pass	V
1431.65	148	217	-55.11	-13	-42.11	Pass	V
3629.80	150	12	-52.41	-13	-39.41	Pass	V
3741.06	150	137	-45.76	-13	-32.76	Pass	V
5822.20	146	356	-47.19	-13	-34.19	Pass	V
6509.29	146	95	-47.10	-13	-34.10	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.
1251.55	150	142	-56.32	-13	-43.32	Pass	H
1726.45	146	280	-54.35	-13	-41.35	Pass	H
3917.40	150	330	-49.72	-13	-36.72	Pass	H
5820.30	146	194	-43.08	-13	-30.08	Pass	H
6402.88	149	260	-48.11	-13	-35.11	Pass	H
8082.03	151	31	-46.23	-13	-33.23	Pass	H
1252.89	149	4	-55.45	-13	-42.45	Pass	V
1430.60	148	257	-65.77	-13	-52.77	Pass	V
3607.49	147	55	-49.36	-13	-36.36	Pass	V
3952.92	148	273	-54.43	-13	-41.43	Pass	V
5813.31	150	136	-49.45	-13	-36.45	Pass	V
6490.56	150	16	-51.21	-13	-38.21	Pass	V

Band 13 23225 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1286.30	149	156	-54.04	-13	-41.04	Pass	H
1586.89	149	170	-49.03	-13	-36.03	Pass	H
3745.59	149	127	-46.58	-13	-33.58	Pass	H
5820.36	146	42	-44.25	-13	-31.25	Pass	H
6463.54	147	69	-39.65	-13	-26.65	Pass	H
7929.61	151	110	-43.68	-13	-30.68	Pass	H
1220.35	148	61	-52.33	-13	-39.33	Pass	V
1381.55	147	266	-56.32	-13	-43.32	Pass	V
3477.80	148	303	-51.32	-13	-38.32	Pass	V
3850.94	149	195	-44.08	-13	-31.08	Pass	V
5754.12	147	323	-47.19	-13	-34.19	Pass	V
6487.32	146	325	-50.05	-13	-37.05	Pass	V

Note:

7) 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.

8) 2)Tested with all kind of bandwidth, RB Size and RB Offset, Found the 5.0MHz 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=DC3.6V; Low Voltage LV=DC3.24V; High Voltage HV=DC3.96V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

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