TEST REPORT

Product Name:	Phone watch
FCC ID:	2BKAY-8688
Trademark:	N/A
Model Number:	8688, 8686, 8988, 8588, M01, M02, M03, M04, M05, M06, M07, M08, M09, M10, Y13, Y14, Y15, Y16, Y17, Y18, Y19, Y20, DF55, DF56, DF58, DF59, DF60, DF61, DF62, DF63, DF64, DF65, DF66, DF67, DF68, DF69 DF70, DF89, DF90, DF91, DF92, DF93, DF94, DF95, DF96, DF97, DF98, DF99
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Prepared By:	Shenzhen CTB Testing Technology Co., Ltd.
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Sample Received Date:	Jun. 20, 2024
Sample tested Date:	Jun. 20, 2024 to Jul. 19, 2024
Issue Date:	Jul. 19, 2024
Report No.:	CTB240719044RF
Test Standards	FCC Part 2, 22, 24E, 27
Test Results	PASS
Remark:	This is LTE radio test report.

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

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

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(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB240719044RF	Jul. 19, 2024	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

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

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3. MEASUREMENT UNCERTAINTY

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

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

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	8688, 8686, 8988, 8588, M01, M02, M03, M04, M05, M06, M07, M08, M09, M10, Y13, Y14, Y15, Y16, Y17, Y18, Y19, Y20, DF55, DF56, DF58, DF59, DF60, DF61, DF62, DF63, DF64, DF65, DF66, DF67, DF68, DF69 DF70, DF89, DF90, DF91, DF92, DF93, DF94, DF95, DF96, DF97, DF98, DF99
Model Description:	All the model are the same circuit and RF module, only the model name, wirstband and color are different. Test sample model: 8688
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	FDD-LTE BAND 2: 1850-1910MHz FDD-LTE BAND 4: 1710-1755MHz FDD-LTE BAND 5: 824-849MHz FDD-LTE BAND 12: 699-716MHz
Max. RF output power:	FDD-LTE BAND 2: 22.95dBm FDD-LTE BAND 4: 22.57dBm FDD-LTE BAND 5: 23.72dBm FDD-LTE BAND 12: 23.52dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	Internal antenna
Antenna Gain:	FDD-LTE BAND 2: 1.73dBi FDD-LTE BAND 4: 1.93dBi FDD-LTE BAND 5: -2.21dBi FDD-LTE BAND 12: -5.91dBi
Ratings:	DC 5V charging from adapter DC 3.8V 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/TypeNo.	SeriesNo.	Note
1	Adapter	JIYIN	JY-05100C	/	/

Notes:

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

4.4 Test Mode

Test Mode List		
Test Mode	Description	Remark
TM1	FDD-LTE BAND 2	Low, Middle, High Channels
TM2	FDD-LTE BAND 4	Low, Middle, High Channels
TM3	FDD-LTE BAND 5	Low, Middle, High Channels
TM4	FDD-LTE BAND 12	Low, Middle, High Channels

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	3.8V
Normal Temperature(℃)	23
Low Temperature(℃)	0
High Temperature(℃)	40

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at 1&2F., Building A, No. 26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	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	MSF2400-2483.5MS-1154	20181015001	/	2025/6/30
10	5 GHz Filter	Shenxiang	MSF5150-5850MS-1155	20181015001	/	2025/6/30
11	Filter	Xingbo	XBLBQ-DZA120	190821-1-1	/	2025/6/30
12	BT&WI-FI Automatic test software	Micowave	MTS8000	Ver. 2.0.0.0	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2025/6/28
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2025/6/28
15	234G Automatic test software	Micowave	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.

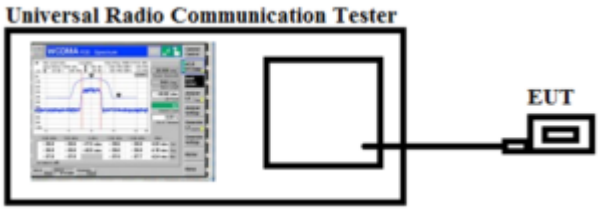
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

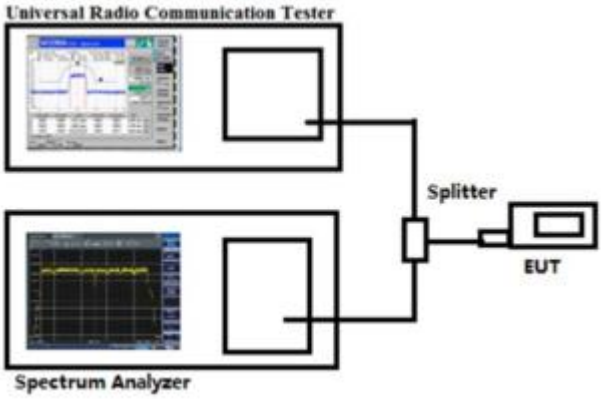
8.1 Standard Applicable

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.

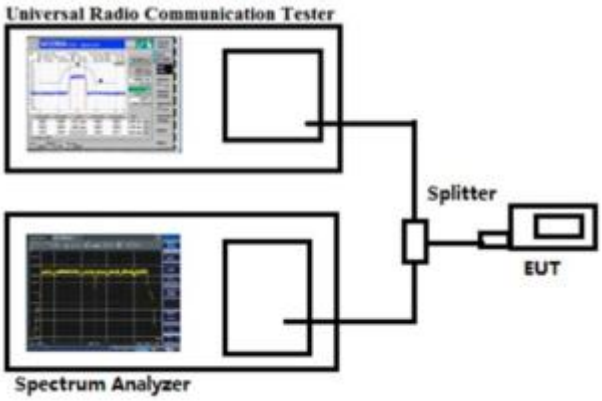
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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.

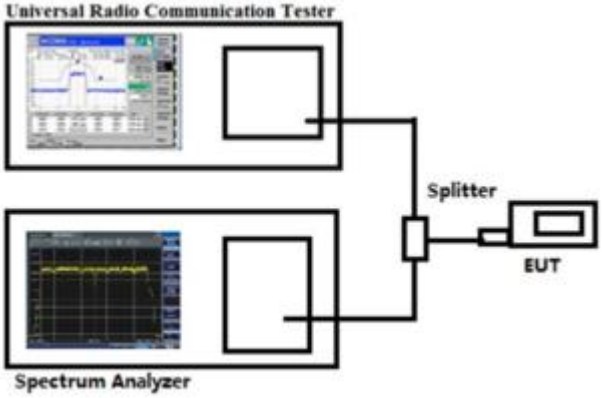
According to §27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside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

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

10.2 Test Procedure

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

Test Configuration for the out of band emissions testing:



10.3 Summary of Test Results/Plots

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

11. SPURIOUS RADIATED EMISSIONS

11.1 Standard Applicable

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

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

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

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

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

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

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

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

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

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

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

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

11.2 Test Procedure

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

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

11.3 Summary of Test Results/Plots

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

Test Data:
QPSK

Band 2 18607 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1395.19	145	281	-55.45	-13	-42.45	Pass	H
1656.21	159	228	-50.96	-13	-37.96	Pass	H
3889.72	150	51	-47.45	-13	-34.45	Pass	H
5973.23	145	16	-45.35	-13	-32.35	Pass	H
6536.38	154	177	-41.67	-13	-28.67	Pass	H
8065.99	158	185	-43.51	-13	-30.51	Pass	H
1136.80	159	263	-56.51	-13	-43.51	Pass	V
1382.54	141	78	-60.29	-13	-47.29	Pass	V
3451.99	156	131	-50.10	-13	-37.10	Pass	V
3853.39	151	338	-52.35	-13	-39.35	Pass	V
5798.26	145	49	-48.38	-13	-35.38	Pass	V
6610.16	150	144	-46.34	-13	-33.34	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.
1343.66	150	65	-54.66	-13	-41.66	Pass	H
1618.95	146	114	-49.78	-13	-36.78	Pass	H
3826.20	150	80	-50.07	-13	-37.07	Pass	H
5853.98	146	94	-43.04	-13	-30.04	Pass	H
6432.99	149	218	-48.29	-13	-35.29	Pass	H
8100.49	151	38	-48.30	-13	-35.30	Pass	H
1272.03	149	212	-51.71	-13	-38.71	Pass	V
1442.38	148	213	-57.58	-13	-44.58	Pass	V
3583.40	147	1	-56.65	-13	-43.65	Pass	V
3895.34	148	153	-51.43	-13	-38.43	Pass	V
5797.03	150	53	-45.98	-13	-32.98	Pass	V
6419.71	150	23	-50.49	-13	-37.49	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.
1306.26	148	250	-54.32	-13	-41.32	Pass	H
1627.30	151	246	-53.84	-13	-40.84	Pass	H
3927.80	147	320	-45.72	-13	-32.72	Pass	H
5808.84	146	188	-38.99	-13	-25.99	Pass	H
6579.13	149	98	-42.38	-13	-29.38	Pass	H
8078.86	149	18	-47.11	-13	-34.11	Pass	H
1215.47	150	259	-59.32	-13	-46.32	Pass	V
1458.93	145	88	-58.34	-13	-45.34	Pass	V
3498.38	146	130	-52.66	-13	-39.66	Pass	V
3992.25	148	141	-49.57	-13	-36.57	Pass	V
5799.06	152	48	-43.32	-13	-30.32	Pass	V
6489.21	148	270	-44.92	-13	-31.92	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.
1270.29	153	260	-57.70	-13	-44.70	Pass	H
1627.09	145	206	-50.04	-13	-37.04	Pass	H
3932.58	152	8	-50.18	-13	-37.18	Pass	H
6001.32	152	40	-43.71	-13	-30.71	Pass	H
6633.22	149	53	-45.70	-13	-32.70	Pass	H
7994.91	152	168	-42.31	-13	-29.31	Pass	H
1094.43	152	141	-53.41	-13	-40.41	Pass	V
1371.18	147	348	-55.24	-13	-42.24	Pass	V
3648.77	147	77	-48.71	-13	-35.71	Pass	V
3829.69	151	143	-51.29	-13	-38.29	Pass	V
5849.52	150	71	-44.95	-13	-31.95	Pass	V
6624.01	151	213	-51.36	-13	-38.36	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.
1420.71	148	9	-56.03	-13	-41.45	Pass	H
1678.81	153	252	-47.88	-13	-37.85	Pass	H
3924.36	147	160	-49.75	-13	-35.2	Pass	H
5966.44	147	266	-46.33	-13	-30.39	Pass	H
6409.98	146	213	-47.43	-13	-32.24	Pass	H
8154.50	146	91	-43.81	-13	-30.22	Pass	H
1133.42	145	142	-57.80	-13	-44.9	Pass	V
1480.08	155	279	-58.71	-13	-43.63	Pass	V
3632.24	148	192	-45.77	-13	-35.94	Pass	V
3806.64	147	169	-51.51	-13	-36.01	Pass	V
5720.54	151	239	-43.20	-13	-33.75	Pass	V
6576.37	152	77	-46.61	-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.
1240.49	152	176	-58.17	-13	-45.17	Pass	H
1761.17	149	224	-47.42	-13	-34.42	Pass	H
3951.39	153	157	-41.85	-13	-28.85	Pass	H
5936.88	152	241	-44.60	-13	-31.60	Pass	H
6601.77	150	31	-37.55	-13	-24.55	Pass	H
7997.88	148	211	-42.14	-13	-29.14	Pass	H
1270.61	146	165	-53.54	-13	-40.54	Pass	V
1466.67	153	58	-60.24	-13	-47.24	Pass	V
3536.98	148	293	-51.65	-13	-38.65	Pass	V
3856.35	154	213	-50.80	-13	-37.80	Pass	V
5859.11	154	27	-48.01	-13	-35.01	Pass	V
6649.01	146	182	-43.21	-13	-30.21	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.
1416.16	148	77	-58.58	-13	-45.58	Pass	H
1670.64	146	162	-48.64	-13	-35.64	Pass	H
3936.03	153	58	-49.03	-13	-36.03	Pass	H
5844.87	152	222	-45.45	-13	-32.45	Pass	H
6559.33	152	48	-46.83	-13	-33.83	Pass	H
7924.55	153	120	-38.43	-13	-25.43	Pass	H
1178.55	152	139	-53.40	-13	-40.40	Pass	V
1423.47	152	225	-59.46	-13	-46.46	Pass	V
3543.47	147	113	-53.36	-13	-40.36	Pass	V
3852.68	148	226	-53.05	-13	-40.05	Pass	V
5782.23	154	29	-44.05	-13	-31.05	Pass	V
6671.32	148	78	-47.15	-13	-34.15	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.
1408.13	154	331	-56.82	-13	-43.82	Pass	H
1728.74	151	99	-45.68	-13	-32.68	Pass	H
3851.92	148	190	-44.40	-13	-31.40	Pass	H
5843.39	152	252	-42.04	-13	-29.04	Pass	H
6510.55	149	156	-41.42	-13	-28.42	Pass	H
8053.00	153	196	-48.19	-13	-35.19	Pass	H
1206.59	148	310	-60.55	-13	-47.55	Pass	V
1291.59	151	128	-57.65	-13	-44.65	Pass	V
3525.93	151	329	-47.72	-13	-34.72	Pass	V
3894.86	151	73	-48.87	-13	-35.87	Pass	V
5859.68	155	34	-40.19	-13	-27.19	Pass	V
6442.49	149	299	-45.22	-13	-32.22	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.
1335.36	149	165	-52.35	-13	-39.35	Pass	H
1790.60	146	208	-46.41	-13	-33.41	Pass	H
3981.87	146	4	-44.53	-13	-31.53	Pass	H
5929.82	150	198	-38.64	-13	-25.64	Pass	H
6535.77	146	341	-44.96	-13	-31.96	Pass	H
8154.80	150	235	-40.60	-13	-27.60	Pass	H
1231.54	146	292	-51.37	-13	-38.37	Pass	V
1486.32	150	158	-57.16	-13	-44.16	Pass	V
3526.34	149	55	-49.97	-13	-36.97	Pass	V
3926.06	150	319	-50.52	-13	-37.52	Pass	V
5750.51	146	118	-46.73	-13	-33.73	Pass	V
6568.52	150	155	-45.88	-13	-32.88	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.
1238.07	150	78	-59.46	-13	-46.46	Pass	H
1736.64	149	291	-54.02	-13	-41.02	Pass	H
3851.17	151	213	-47.95	-13	-34.95	Pass	H
5913.58	150	89	-48.82	-13	-35.82	Pass	H
6461.34	151	329	-49.84	-13	-36.84	Pass	H
8059.51	148	138	-48.47	-13	-35.47	Pass	H
1310.62	149	99	-58.61	-13	-45.61	Pass	V
1452.56	148	217	-53.50	-13	-40.50	Pass	V
3590.48	150	12	-48.22	-13	-35.22	Pass	V
3884.68	150	137	-51.35	-13	-38.35	Pass	V
5827.47	146	356	-48.19	-13	-35.19	Pass	V
6552.25	146	95	-49.51	-13	-36.51	Pass	V

Band 4 20175 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1363.74	150	142	-54.61	-13	-41.61	Pass	H
1671.29	146	280	-54.87	-13	-41.87	Pass	H
3916.13	150	330	-48.73	-13	-35.73	Pass	H
5918.03	146	194	-45.15	-13	-32.15	Pass	H
6511.36	149	260	-51.81	-13	-38.81	Pass	H
8117.17	151	31	-44.41	-13	-31.41	Pass	H
1300.76	149	4	-54.64	-13	-41.64	Pass	V
1464.27	148	257	-60.26	-13	-47.26	Pass	V
3677.45	147	55	-48.92	-13	-35.92	Pass	V
3984.35	148	273	-55.70	-13	-42.70	Pass	V
5772.17	150	136	-48.42	-13	-35.42	Pass	V
6529.65	150	16	-50.96	-13	-37.96	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.
1307.41	149	156	-56.86	-13	-43.86	Pass	H
1580.20	149	170	-54.72	-13	-41.72	Pass	H
3758.04	149	127	-46.79	-13	-33.79	Pass	H
5857.19	146	42	-43.62	-13	-30.62	Pass	H
6451.49	147	69	-44.52	-13	-31.52	Pass	H
7960.88	151	110	-43.07	-13	-30.07	Pass	H
1247.58	148	61	-54.37	-13	-41.37	Pass	V
1348.79	147	266	-51.49	-13	-38.49	Pass	V
3518.34	148	303	-49.30	-13	-36.30	Pass	V
3884.15	149	195	-46.25	-13	-33.25	Pass	V
5749.04	147	323	-41.96	-13	-28.96	Pass	V
6499.66	146	325	-50.05	-13	-37.05	Pass	V

Note:

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

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

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Band 5 20407 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1318.78	155	126	-55.88	-13	-42.88	Pass	H
1651.04	157	231	-49.43	-13	-36.43	Pass	H
3890.57	149	304	-48.54	-13	-35.54	Pass	H
5818.36	159	326	-42.24	-13	-29.24	Pass	H
6475.28	156	352	-44.24	-13	-31.24	Pass	H
8029.39	158	160	-44.34	-13	-31.34	Pass	H
1107.03	153	145	-56.81	-13	-43.81	Pass	V
1490.61	141	223	-58.12	-13	-45.12	Pass	V
3444.81	142	153	-51.06	-13	-38.06	Pass	V
3911.07	159	302	-51.49	-13	-38.49	Pass	V
5702.31	159	53	-46.90	-13	-33.90	Pass	V
6541.89	143	256	-47.19	-13	-34.19	Pass	V
Band 5 20525 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1279.45	150	13	-57.86	-13	-44.86	Pass	H
1628.60	146	220	-50.75	-13	-37.75	Pass	H
3857.44	150	109	-50.18	-13	-37.18	Pass	H
5868.43	146	19	-46.46	-13	-33.46	Pass	H
6440.34	149	220	-48.39	-13	-35.39	Pass	H
8056.69	151	253	-49.72	-13	-36.72	Pass	H
1303.75	149	147	-52.53	-13	-39.53	Pass	V
1392.03	148	43	-58.15	-13	-45.15	Pass	V
3521.55	147	66	-55.88	-13	-42.88	Pass	V
3982.40	148	74	-52.02	-13	-39.02	Pass	V
5889.46	150	56	-46.83	-13	-33.83	Pass	V
6428.77	150	309	-48.12	-13	-35.12	Pass	V

Band 5 20643 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1404.41	154	196	-54.91	-13	-41.91	Pass	H
1751.87	154	78	-49.47	-13	-36.47	Pass	H
3827.15	155	7	-47.59	-13	-34.59	Pass	H
5978.49	150	298	-42.45	-13	-29.45	Pass	H
6515.75	147	36	-43.93	-13	-30.93	Pass	H
7970.27	151	285	-42.30	-13	-29.30	Pass	H
1314.30	146	14	-56.83	-13	-43.83	Pass	V
1443.86	147	255	-59.45	-13	-46.45	Pass	V
3571.15	153	47	-55.02	-13	-42.02	Pass	V
3850.35	155	112	-47.64	-13	-34.64	Pass	V
5688.95	153	317	-40.74	-13	-27.74	Pass	V
6566.53	148	109	-45.17	-13	-32.17	Pass	V

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Band 5 20407 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1309.62	152	35	-60.76	-13	-47.76	Pass	H
1729.52	148	54	-49.92	-13	-36.92	Pass	H
3854.23	155	278	-49.38	-13	-36.38	Pass	H
5879.93	147	74	-46.98	-13	-33.98	Pass	H
6486.11	145	352	-44.68	-13	-31.68	Pass	H
8019.63	153	138	-45.31	-13	-32.31	Pass	H
1089.64	152	197	-55.25	-13	-42.25	Pass	V
1447.58	148	76	-56.65	-13	-43.65	Pass	V
3648.60	146	312	-51.01	-13	-38.01	Pass	V
3879.76	147	228	-52.89	-13	-39.89	Pass	V
5781.33	155	95	-47.79	-13	-34.79	Pass	V
6631.38	147	89	-51.12	-13	-38.12	Pass	V

Band 5 20525 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1326.76	154	302	-55.29	-13	-41.45	Pass	H
1812.16	149	157	-46.99	-13	-37.85	Pass	H
3911.72	147	258	-45.67	-13	-35.2	Pass	H
5923.07	147	137	-44.00	-13	-30.39	Pass	H
6420.86	148	27	-44.36	-13	-32.24	Pass	H
8138.57	152	179	-44.22	-13	-30.22	Pass	H
1259.20	155	337	-54.34	-13	-44.9	Pass	V
1320.46	153	153	-55.71	-13	-43.63	Pass	V
3628.06	151	41	-50.11	-13	-35.94	Pass	V
3889.67	148	32	-49.04	-13	-36.01	Pass	V
5877.92	152	269	-47.38	-13	-33.75	Pass	V
6421.18	154	336	-44.71	-13	-32.41	Pass	V
Band 5 20643 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1346.72	147	280	-53.49	-13	-40.49	Pass	H
1648.21	150	29	-46.05	-13	-33.05	Pass	H
3982.57	151	352	-44.84	-13	-31.84	Pass	H
5849.91	150	77	-39.32	-13	-26.32	Pass	H
6434.06	149	249	-42.70	-13	-29.70	Pass	H
8176.55	150	77	-46.59	-13	-33.59	Pass	H
1237.30	149	324	-52.63	-13	-39.63	Pass	V
1521.64	154	294	-59.17	-13	-46.17	Pass	V
3570.69	151	89	-47.82	-13	-34.82	Pass	V
3905.69	148	349	-50.26	-13	-37.26	Pass	V
5866.86	151	296	-50.86	-13	-37.86	Pass	V
6605.52	155	196	-45.66	-13	-32.66	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 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.
1283.89	152	7	-52.89	-13	-39.89	Pass	H
1809.69	149	203	-49.73	-13	-36.73	Pass	H
3896.90	151	31	-45.27	-13	-32.27	Pass	H
5907.33	146	62	-42.85	-13	-29.85	Pass	H
6551.15	150	40	-45.11	-13	-32.11	Pass	H
8037.23	150	49	-47.68	-13	-34.68	Pass	H
1239.27	150	125	-60.44	-13	-47.44	Pass	V
1401.17	146	7	-58.75	-13	-45.75	Pass	V
3574.94	153	8	-51.04	-13	-38.04	Pass	V
3759.59	151	68	-49.19	-13	-36.19	Pass	V
5761.44	154	323	-44.09	-13	-31.09	Pass	V
6541.76	149	264	-41.91	-13	-28.91	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.
1333.54	154	149	-56.28	-13	-43.28	Pass	H
1648.76	153	165	-45.00	-13	-32.00	Pass	H
3927.44	148	190	-44.86	-13	-31.86	Pass	H
5940.99	147	249	-38.44	-13	-25.44	Pass	H
6526.87	153	235	-44.16	-13	-31.16	Pass	H
8122.92	147	24	-43.91	-13	-30.91	Pass	H
1215.58	154	18	-59.14	-13	-46.14	Pass	V
1388.43	151	240	-61.04	-13	-48.04	Pass	V
3523.79	146	49	-50.76	-13	-37.76	Pass	V
3891.27	148	49	-45.62	-13	-32.62	Pass	V
5876.38	154	219	-46.43	-13	-33.43	Pass	V
6599.32	155	316	-43.38	-13	-30.38	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.
1318.15	155	215	-57.94	-13	-44.94	Pass	H
1749.96	153	305	-46.78	-13	-33.78	Pass	H
3814.28	151	163	-50.72	-13	-37.72	Pass	H
5977.43	149	9	-46.34	-13	-33.34	Pass	H
6566.53	152	242	-44.15	-13	-31.15	Pass	H
7992.53	154	229	-40.43	-13	-27.43	Pass	H
1166.35	145	311	-54.43	-13	-41.43	Pass	V
1512.96	148	272	-57.31	-13	-44.31	Pass	V
3538.42	150	316	-52.45	-13	-39.45	Pass	V
3826.34	145	175	-49.01	-13	-36.01	Pass	V
5899.62	152	8	-45.86	-13	-32.86	Pass	V
6642.69	149	215	-49.91	-13	-36.91	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.
1375.10	153	327	-56.83	-13	-43.83	Pass	H
1695.44	153	205	-50.09	-13	-37.09	Pass	H
3773.91	147	247	-44.65	-13	-31.65	Pass	H
5827.59	154	166	-43.28	-13	-30.28	Pass	H
6468.49	153	223	-41.27	-13	-28.27	Pass	H
8131.69	153	173	-47.39	-13	-34.39	Pass	H
1108.96	153	179	-56.73	-13	-43.73	Pass	V
1326.59	148	114	-61.35	-13	-48.35	Pass	V
3489.74	146	209	-48.94	-13	-35.94	Pass	V
3853.59	152	18	-47.05	-13	-34.05	Pass	V
5861.64	146	279	-41.12	-13	-28.12	Pass	V
6523.01	155	179	-44.31	-13	-31.31	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.
1296.20	149	165	-51.02	-13	-38.02	Pass	H
1654.11	146	208	-46.33	-13	-33.33	Pass	H
3895.32	146	4	-46.91	-13	-33.91	Pass	H
5827.07	150	198	-44.00	-13	-31.00	Pass	H
6415.36	146	341	-40.49	-13	-27.49	Pass	H
8000.65	150	235	-40.22	-13	-27.22	Pass	H
1229.96	146	292	-53.74	-13	-40.74	Pass	V
1389.91	150	158	-53.29	-13	-40.29	Pass	V
3503.53	149	55	-53.07	-13	-40.07	Pass	V
3871.92	150	319	-46.94	-13	-33.94	Pass	V
5843.00	146	118	-49.06	-13	-36.06	Pass	V
6507.81	150	155	-46.44	-13	-33.44	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.
1249.56	150	78	-53.59	-13	-40.59	Pass	H
1802.89	149	291	-50.08	-13	-37.08	Pass	H
3879.41	151	213	-52.42	-13	-39.42	Pass	H
5768.76	150	89	-48.63	-13	-35.63	Pass	H
6509.68	151	329	-46.42	-13	-33.42	Pass	H
7915.09	148	138	-44.59	-13	-31.59	Pass	H
1241.93	149	99	-55.69	-13	-42.69	Pass	V
1480.00	148	217	-55.16	-13	-42.16	Pass	V
3541.55	150	12	-49.40	-13	-36.40	Pass	V
3824.23	150	137	-48.99	-13	-35.99	Pass	V
5760.06	146	356	-49.12	-13	-36.12	Pass	V
6635.66	146	95	-50.09	-13	-37.09	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=DC3.33; High Voltage HV=DC4.07V
Please refer to Appendix 2: Frequency Stability
Test result: Pass

※※※※※ END OF REPORT ※※※※※