



TEST REPORT

Product Name: High Precision GNSS Receiver
FCC ID: 2BMDI-SP30-PRO-SE
Trademark: SPHEREFIX
Model Number: SP30, SP30Se, SP30Pro
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Sample Received Date: Nov. 09, 2024
Sample tested Date: Nov. 09, 2024 to Dec. 05, 2024
Issue Date: Dec. 05, 2024
Report No.: CTB24110900101RF05
Test Standards: FCC Part 2, 22, 24E, 27
Test Results: PASS
Remark: This is LTE radio test report.

Compiled by:

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Approved by:

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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
CTB24110900101RF05	Dec. 05, 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

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):	SP30, SP30Se, SP30Pro
Model Description:	All the model are the same circuit and RF module, only the name and appearance are different. Test sample model: SP30
Hardware Version:	T86X-PCBA.1.1
Software Version:	T86.2
Operation Frequency:	FDD-LTE BAND 2:1850-1910MHz FDD-LTE BAND 4:1710-1755 MHz FDD-LTE BAND 5:824-849MHz FDD-LTE BAND 7:2500-2570MHz FDD-LTE BAND 25:1850-1915 MHz FDD-LTE BAND 26:824-849 MHz TDD-LTE BAND 38: 2570-2620MHz TDD-LTE BAND 41: 2555-2655MHz
Max. RF output power:	FDD-LTE BAND 2: 23.59dBm FDD-LTE BAND 4: 24dBm FDD-LTE BAND 5: 23.42dBm FDD-LTE BAND 7: 23.48dBm FDD-LTE BAND 25: 23.57dBm FDD-LTE BAND 26: 23.39dBm TDD-LTE BAND 38: 23.05 dBm TDD-LTE BAND 41: 23.18dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	Internal antenna
Antenna Gain:	FDD-LTE BAND 2: 1.3dBi FDD-LTE BAND 4: 1.1dBi FDD-LTE BAND 5: 0.6dBi FDD-LTE BAND 7: 1.6dBi FDD-LTE BAND 25: 1.3dBi FDD-LTE BAND 26: 0.6dBi TDD-LTE BAND 38:1.5dBi TDD-LTE BAND 41: 1.6 dBi
Ratings:	INPUT: 100-240~50/60Hz 0.8A Max OUTPUT: 3.3-11.0V=2.72A 29.92W or 5.0V=3.0A 15.0W or 9.0V=3.0A 27.0W or 12.0V=2.5A 30.0W or 15.0V=2.0A 30.0W DC 7.4V 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
1	Adapter	JIYIN	JY-05100C	/	AE

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	TDD-LTE BAND 5	Low, Middle, High Channels
TM4	TDD-LTE BAND 7	Low, Middle, High Channels
TM5	TDD-LTE BAND 25	Low, Middle, High Channels
TM6	TDD-LTE BAND 26	Low, Middle, High Channels
TM7	TDD-LTE BAND 38	Low, Middle, High Channels
TM8	TDD-LTE BAND 41	Low, Middle, High Channels

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	7.4V
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	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.

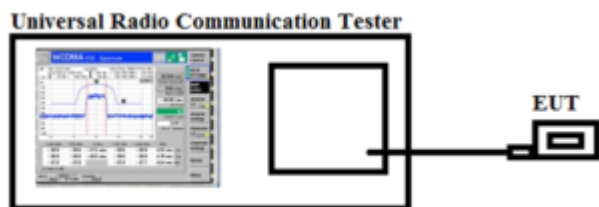
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

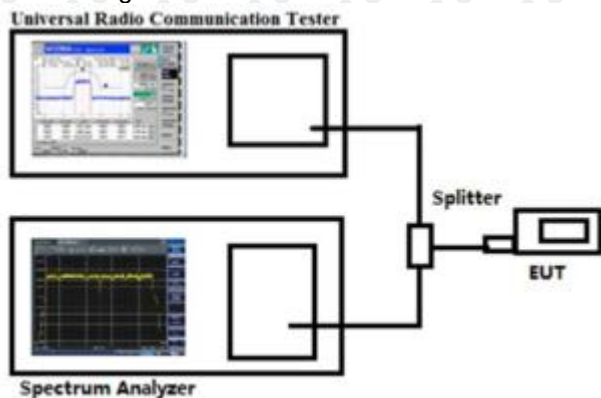
corresponding to the highest PAPR expected during periods of continuous transmission.

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.

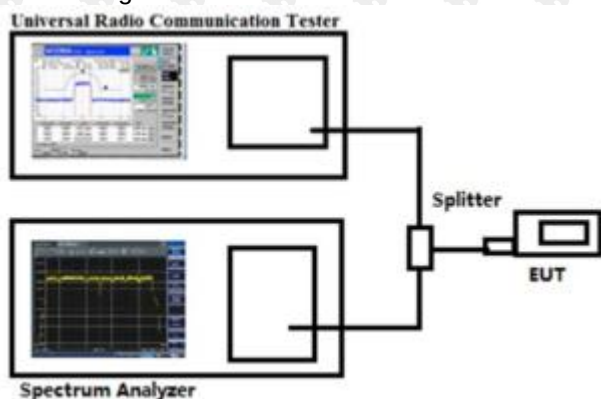
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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: 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.

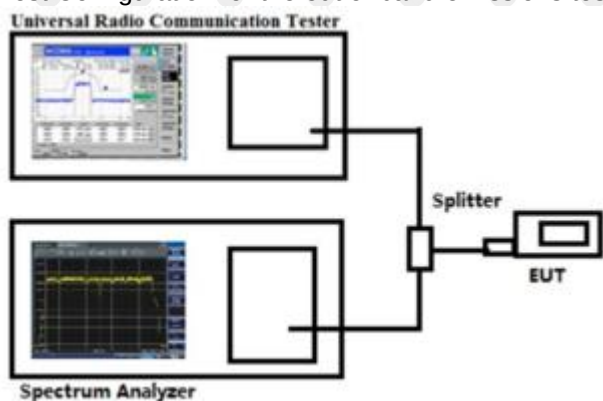
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$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

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.
1261.97	155	288	-57.34	-13	-44.34	Pass	H
1769.86	150	26	-47.59	-13	-34.59	Pass	H
3809.56	142	49	-45.99	-13	-32.99	Pass	H
5903.72	154	181	-43.28	-13	-30.28	Pass	H
6485.89	156	209	-42.40	-13	-29.40	Pass	H
7991.93	153	225	-42.53	-13	-29.53	Pass	H
1173.66	158	316	-54.49	-13	-41.49	Pass	V
1529.29	155	244	-60.32	-13	-47.32	Pass	V
3584.59	148	319	-51.32	-13	-38.32	Pass	V
3772.18	151	317	-48.95	-13	-35.95	Pass	V
5832.09	145	162	-46.08	-13	-33.08	Pass	V
6497.83	156	42	-46.55	-13	-33.55	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.
1333.45	150	261	-55.44	-13	-42.44	Pass	H
1754.64	146	87	-51.54	-13	-38.54	Pass	H
3868.48	150	73	-50.61	-13	-37.61	Pass	H
5925.58	146	58	-47.36	-13	-34.36	Pass	H
6556.84	149	9	-52.14	-13	-39.14	Pass	H
8101.93	151	347	-48.74	-13	-35.74	Pass	H
1229.75	149	323	-53.94	-13	-40.94	Pass	V
1427.31	148	26	-59.84	-13	-46.84	Pass	V
3624.42	147	300	-52.07	-13	-39.07	Pass	V
3940.22	148	60	-50.67	-13	-37.67	Pass	V
5764.09	150	303	-51.04	-13	-38.04	Pass	V
6465.99	150	102	-45.76	-13	-32.76	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.
1267.88	154	28	-57.78	-13	-44.78	Pass	H
1643.21	152	200	-53.36	-13	-40.36	Pass	H
3784.10	151	289	-48.65	-13	-35.65	Pass	H
5826.49	146	264	-43.75	-13	-30.75	Pass	H
6568.38	146	209	-43.76	-13	-30.76	Pass	H
8063.41	155	113	-42.72	-13	-29.72	Pass	H
1346.35	149	197	-55.31	-13	-42.31	Pass	V
1464.94	148	92	-58.87	-13	-45.87	Pass	V
3472.83	145	277	-53.48	-13	-40.48	Pass	V
3954.51	154	264	-48.04	-13	-35.04	Pass	V
5738.96	147	268	-43.10	-13	-30.10	Pass	V
6616.43	151	287	-50.26	-13	-37.26	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.
1252.88	149	1	-57.79	-13	-44.79	Pass	H
1750.01	145	130	-45.26	-13	-32.26	Pass	H
3796.33	150	279	-49.67	-13	-36.67	Pass	H
5906.72	145	165	-43.87	-13	-30.87	Pass	H
6505.32	147	353	-43.69	-13	-30.69	Pass	H
7999.66	149	221	-40.29	-13	-27.29	Pass	H
1118.74	151	274	-51.15	-13	-38.15	Pass	V
1463.52	151	285	-53.76	-13	-40.76	Pass	V
3667.23	154	255	-50.90	-13	-37.90	Pass	V
3919.09	149	120	-54.51	-13	-41.51	Pass	V
5940.59	153	4	-43.25	-13	-30.25	Pass	V
6638.69	148	273	-52.00	-13	-39.00	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.
1370.81	153	185	-53.18	-13	-41.45	Pass	H
1665.85	147	319	-49.58	-13	-37.85	Pass	H
3778.59	152	303	-49.45	-13	-35.2	Pass	H
5938.08	147	331	-43.24	-13	-30.39	Pass	H
6565.80	151	127	-44.49	-13	-32.24	Pass	H
7981.78	150	263	-41.81	-13	-30.22	Pass	H
1119.49	146	359	-60.70	-13	-44.9	Pass	V
1342.51	145	132	-57.00	-13	-43.63	Pass	V
3605.28	148	254	-51.29	-13	-35.94	Pass	V
3872.15	148	133	-46.23	-13	-36.01	Pass	V
5888.23	147	272	-48.67	-13	-33.75	Pass	V
6587.71	151	76	-43.63	-13	-32.41	Pass	V
Band 2 19193 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1309.52	147	306	-55.86	-13	-42.86	Pass	H
1604.20	149	122	-52.09	-13	-39.09	Pass	H
3886.06	151	135	-44.31	-13	-31.31	Pass	H
5875.10	148	93	-42.61	-13	-29.61	Pass	H
6477.53	154	309	-38.20	-13	-25.20	Pass	H
8099.26	154	190	-43.12	-13	-30.12	Pass	H
1216.88	149	192	-53.93	-13	-40.93	Pass	V
1525.43	145	337	-55.32	-13	-42.32	Pass	V
3555.86	151	360	-51.59	-13	-38.59	Pass	V
3905.21	149	212	-51.98	-13	-38.98	Pass	V
5836.84	150	235	-47.00	-13	-34.00	Pass	V
6531.22	147	290	-43.49	-13	-30.49	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.
1247.78	158	3	-57.82	-13	-44.82	Pass	H
1647.76	149	14	-48.74	-13	-35.74	Pass	H
3833.67	147	245	-46.02	-13	-33.02	Pass	H
5921.82	155	261	-42.10	-13	-29.10	Pass	H
6602.30	147	285	-42.67	-13	-29.67	Pass	H
8081.84	155	143	-43.26	-13	-30.26	Pass	H
1184.44	159	172	-54.00	-13	-41.00	Pass	V
1529.60	151	206	-58.28	-13	-45.28	Pass	V
3595.05	145	217	-50.32	-13	-37.32	Pass	V
3848.48	143	253	-50.81	-13	-37.81	Pass	V
5727.64	154	205	-47.97	-13	-34.97	Pass	V
6635.65	159	31	-48.31	-13	-35.31	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.
1350.05	150	85	-59.04	-13	-46.04	Pass	H
1646.75	146	286	-49.62	-13	-36.62	Pass	H
3914.51	150	255	-49.97	-13	-36.97	Pass	H
5906.98	146	233	-44.05	-13	-31.05	Pass	H
6505.78	149	356	-49.03	-13	-36.03	Pass	H
7953.31	151	352	-47.27	-13	-34.27	Pass	H
1326.87	149	258	-56.07	-13	-43.07	Pass	V
1307.96	148	139	-59.21	-13	-46.21	Pass	V
3574.36	147	222	-53.35	-13	-40.35	Pass	V
3838.52	148	252	-52.49	-13	-39.49	Pass	V
5743.14	150	64	-46.09	-13	-33.09	Pass	V
6549.42	150	279	-50.36	-13	-37.36	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.
1287.89	153	69	-55.65	-13	-42.65	Pass	H
1571.61	148	241	-53.27	-13	-40.27	Pass	H
3894.03	151	65	-43.93	-13	-30.93	Pass	H
5863.43	153	84	-39.68	-13	-26.68	Pass	H
6565.65	152	277	-43.71	-13	-30.71	Pass	H
7975.42	152	26	-47.17	-13	-34.17	Pass	H
1214.46	150	205	-58.77	-13	-45.77	Pass	V
1437.18	147	8	-54.18	-13	-41.18	Pass	V
3506.27	147	124	-51.64	-13	-38.64	Pass	V
4001.75	147	117	-45.69	-13	-32.69	Pass	V
5809.93	148	101	-46.03	-13	-33.03	Pass	V
6562.62	149	205	-49.80	-13	-36.80	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.
1408.03	148	49	-58.48	-13	-45.48	Pass	H
1682.01	147	100	-47.47	-13	-34.47	Pass	H
3915.32	149	59	-49.96	-13	-36.96	Pass	H
5888.71	147	307	-44.34	-13	-31.34	Pass	H
6607.02	150	67	-46.20	-13	-33.20	Pass	H
7910.86	148	5	-40.95	-13	-27.95	Pass	H
1203.57	151	142	-51.70	-13	-38.70	Pass	V
1447.46	147	275	-57.51	-13	-44.51	Pass	V
3585.82	149	308	-50.28	-13	-37.28	Pass	V
3999.86	151	318	-50.53	-13	-37.53	Pass	V
5843.93	151	36	-45.91	-13	-32.91	Pass	V
6547.32	152	150	-46.92	-13	-33.92	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.
1304.94	151	64	-56.44	-13	-41.45	Pass	H
1662.51	154	63	-47.80	-13	-37.85	Pass	H
3861.24	149	84	-50.62	-13	-35.2	Pass	H
5842.99	146	208	-40.96	-13	-30.39	Pass	H
6565.96	153	141	-41.38	-13	-32.24	Pass	H
7987.99	148	157	-40.61	-13	-30.22	Pass	H
1265.23	149	43	-58.60	-13	-44.9	Pass	V
1348.72	147	207	-57.33	-13	-43.63	Pass	V
3495.81	146	327	-50.70	-13	-35.94	Pass	V
3881.36	151	6	-49.84	-13	-36.01	Pass	V
5801.65	147	274	-42.87	-13	-33.75	Pass	V
6592.76	149	50	-42.50	-13	-32.41	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.
1261.74	153	329	-57.48	-13	-44.48	Pass	H
1665.07	151	267	-50.86	-13	-37.86	Pass	H
3899.05	153	83	-45.25	-13	-32.25	Pass	H
5827.87	155	105	-40.29	-13	-27.29	Pass	H
6467.28	152	20	-37.46	-13	-24.46	Pass	H
8126.70	149	80	-45.05	-13	-32.05	Pass	H
1223.40	153	186	-53.88	-13	-40.88	Pass	V
1410.04	146	305	-56.97	-13	-43.97	Pass	V
3443.59	145	337	-51.03	-13	-38.03	Pass	V
3747.18	151	257	-47.01	-13	-34.01	Pass	V
5724.20	154	295	-50.11	-13	-37.11	Pass	V
6524.61	153	233	-45.59	-13	-32.59	Pass	V

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Band 7 20775 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1424.40	153	228	-57.64	-13	-44.64	Pass	H
1720.67	148	98	-44.84	-13	-31.84	Pass	H
3810.55	147	52	-50.57	-13	-37.57	Pass	H
5992.70	152	140	-46.90	-13	-33.90	Pass	H
6476.32	151	352	-44.80	-13	-31.80	Pass	H
7939.36	150	201	-38.94	-13	-25.94	Pass	H
1260.01	154	113	-50.92	-13	-37.92	Pass	V
1394.11	151	342	-54.66	-13	-41.66	Pass	V
3497.49	149	153	-52.42	-13	-39.42	Pass	V
3923.33	150	228	-48.02	-13	-35.02	Pass	V
5921.63	152	182	-44.13	-13	-31.13	Pass	V
6573.44	149	80	-49.10	-13	-36.10	Pass	V

Band 7 21100 channel/BW 5 (middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1286.58	150	115	-54.11	-13	-41.11	Pass	H
1627.35	151	97	-49.12	-13	-36.12	Pass	H
3787.62	151	226	-46.35	-13	-33.35	Pass	H
5917.71	152	196	-43.55	-13	-30.55	Pass	H
6536.85	150	301	-46.15	-13	-33.15	Pass	H
8155.05	153	290	-47.51	-13	-34.51	Pass	H
1263.15	155	348	-60.39	-13	-47.39	Pass	V
1342.36	152	58	-58.29	-13	-45.29	Pass	V
3564.18	148	63	-46.39	-13	-33.39	Pass	V
3936.07	150	156	-47.48	-13	-34.48	Pass	V
5795.68	149	16	-46.92	-13	-33.92	Pass	V
6564.39	152	151	-43.36	-13	-30.36	Pass	V

Band 7 21425 channel/BW 5 (highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1238.48	148	287	-54.60	-13	-41.60	Pass	H
1740.44	146	68	-51.28	-13	-38.28	Pass	H
3931.38	155	161	-45.41	-13	-32.41	Pass	H
5830.60	148	109	-39.50	-13	-26.50	Pass	H
6444.44	154	97	-40.98	-13	-27.98	Pass	H
7998.99	153	89	-41.54	-13	-28.54	Pass	H
1234.83	155	27	-55.37	-13	-42.37	Pass	V
1461.78	152	199	-59.25	-13	-46.25	Pass	V
3512.79	153	360	-50.33	-13	-37.33	Pass	V
3921.29	150	347	-47.26	-13	-34.26	Pass	V
5746.16	154	17	-47.60	-13	-34.60	Pass	V
6593.23	154	179	-48.09	-13	-35.09	Pass	V

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Band 7 20775 channel/BW 5 (lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1380.16	151	145	-55.01	-13	-42.01	Pass	H
1682.72	152	4	-55.85	-13	-42.85	Pass	H
3882.17	145	5	-49.79	-13	-36.79	Pass	H
5789.88	147	146	-47.92	-13	-34.92	Pass	H
6568.04	152	142	-48.86	-13	-35.86	Pass	H
8093.29	148	14	-46.47	-13	-33.47	Pass	H
1156.18	147	31	-55.62	-13	-42.62	Pass	V
1486.87	153	166	-55.73	-13	-42.73	Pass	V
3567.25	153	203	-47.66	-13	-34.66	Pass	V
3906.57	154	350	-51.29	-13	-38.29	Pass	V
5713.96	145	276	-44.36	-13	-31.36	Pass	V
6635.10	149	280	-45.58	-13	-32.58	Pass	V

Band 7 21100 channel/BW 5 (middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1261.10	152	234	-53.68	-13	-40.68	Pass	H
1634.23	151	85	-50.91	-13	-37.91	Pass	H
3940.06	149	280	-51.60	-13	-38.60	Pass	H
5918.44	154	139	-45.81	-13	-32.81	Pass	H
6536.93	146	342	-46.80	-13	-33.80	Pass	H
7945.89	149	236	-43.41	-13	-30.41	Pass	H
1209.75	154	185	-50.71	-13	-37.71	Pass	V
1425.11	153	51	-61.68	-13	-48.68	Pass	V
3664.33	150	277	-52.79	-13	-39.79	Pass	V
3909.25	147	268	-53.37	-13	-40.37	Pass	V
5866.75	154	77	-53.01	-13	-40.01	Pass	V
6520.11	152	68	-49.81	-13	-36.81	Pass	V

Band 7 21425 channel/BW 5 (highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1254.29	151	328	-59.62	-13	-46.62	Pass	H
1580.23	150	339	-53.37	-13	-40.37	Pass	H
3820.08	147	348	-43.30	-13	-30.30	Pass	H
5851.72	149	69	-43.97	-13	-30.97	Pass	H
6524.36	148	1	-45.36	-13	-32.36	Pass	H
7923.18	146	283	-48.63	-13	-35.63	Pass	H
1195.91	149	114	-52.87	-13	-39.87	Pass	V
1351.17	155	335	-56.39	-13	-43.39	Pass	V
3431.05	145	139	-49.59	-13	-36.59	Pass	V
3902.51	150	75	-48.20	-13	-35.20	Pass	V
5698.72	146	31	-47.33	-13	-34.33	Pass	V
6516.27	153	107	-50.35	-13	-37.35	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.
1267.51	146	336	-56.32	-13	-43.32	Pass	H
1648.90	151	66	-48.62	-13	-35.62	Pass	H
3807.91	151	211	-49.28	-13	-36.28	Pass	H
5910.41	144	153	-43.73	-13	-30.73	Pass	H
6430.21	144	305	-42.72	-13	-29.72	Pass	H
8053.02	158	119	-41.92	-13	-28.92	Pass	H
1215.87	150	319	-54.62	-13	-41.62	Pass	V
1457.19	141	75	-56.92	-13	-43.92	Pass	V
3587.72	149	172	-51.57	-13	-38.57	Pass	V
3887.28	151	253	-52.79	-13	-39.79	Pass	V
5835.60	144	109	-46.49	-13	-33.49	Pass	V
6620.70	143	74	-46.67	-13	-33.67	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.
1301.99	150	116	-56.51	-13	-43.51	Pass	H
1803.88	146	206	-53.52	-13	-40.52	Pass	H
3894.02	150	34	-50.54	-13	-37.54	Pass	H
5943.09	146	293	-48.03	-13	-35.03	Pass	H
6485.02	149	210	-50.81	-13	-37.81	Pass	H
8070.77	151	55	-46.80	-13	-33.80	Pass	H
1146.03	149	340	-55.05	-13	-42.05	Pass	V
1406.80	148	133	-60.62	-13	-47.62	Pass	V
3587.47	147	77	-51.61	-13	-38.61	Pass	V
4009.35	148	139	-49.31	-13	-36.31	Pass	V
5926.20	150	263	-47.15	-13	-34.15	Pass	V
6463.40	150	139	-47.44	-13	-34.44	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.
1379.35	148	290	-57.05	-13	-44.05	Pass	H
1731.34	150	78	-51.14	-13	-38.14	Pass	H
3864.38	153	13	-47.12	-13	-34.12	Pass	H
5994.38	145	182	-38.85	-13	-25.85	Pass	H
6501.54	150	114	-41.96	-13	-28.96	Pass	H
7928.51	145	244	-46.05	-13	-33.05	Pass	H
1176.59	148	183	-55.33	-13	-42.33	Pass	V
1488.54	145	28	-59.17	-13	-46.17	Pass	V
3432.86	151	121	-55.36	-13	-42.36	Pass	V
3812.78	152	300	-46.07	-13	-33.07	Pass	V
5783.04	152	118	-44.53	-13	-31.53	Pass	V
6664.69	150	331	-46.95	-13	-33.95	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.
1373.98	145	132	-60.00	-13	-47.00	Pass	H
1604.52	148	4	-46.41	-13	-33.41	Pass	H
3923.42	147	34	-51.39	-13	-38.39	Pass	H
5983.42	148	15	-42.34	-13	-29.34	Pass	H
6590.44	150	8	-41.78	-13	-28.78	Pass	H
8005.00	149	49	-42.00	-13	-29.00	Pass	H
1160.12	154	226	-52.41	-13	-39.41	Pass	V
1517.92	150	62	-53.44	-13	-40.44	Pass	V
3595.74	153	268	-52.91	-13	-39.91	Pass	V
3932.29	152	282	-49.10	-13	-36.10	Pass	V
5804.48	148	217	-43.96	-13	-30.96	Pass	V
6639.86	146	123	-51.08	-13	-38.08	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.
1254.74	145	335	-57.40	-13	-41.45	Pass	H
1758.43	152	141	-50.91	-13	-37.85	Pass	H
3878.66	151	105	-47.66	-13	-35.2	Pass	H
5930.84	145	230	-43.00	-13	-30.39	Pass	H
6407.95	147	196	-48.00	-13	-32.24	Pass	H
7995.95	150	166	-43.38	-13	-30.22	Pass	H
1246.79	149	78	-56.90	-13	-44.9	Pass	V
1396.55	145	324	-54.72	-13	-43.63	Pass	V
3616.04	147	346	-47.27	-13	-35.94	Pass	V
3811.45	147	125	-46.10	-13	-36.01	Pass	V
5761.40	151	99	-47.98	-13	-33.75	Pass	V
6587.28	149	268	-45.27	-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.
1249.93	154	45	-57.19	-13	-44.19	Pass	H
1635.19	146	351	-52.59	-13	-39.59	Pass	H
3975.89	151	313	-46.22	-13	-33.22	Pass	H
5870.34	148	67	-42.44	-13	-29.44	Pass	H
6583.46	149	197	-44.02	-13	-31.02	Pass	H
8094.24	147	97	-47.66	-13	-34.66	Pass	H
1279.10	155	333	-58.29	-13	-45.29	Pass	V
1463.32	151	54	-57.48	-13	-44.48	Pass	V
3573.77	152	253	-47.92	-13	-34.92	Pass	V
3921.35	152	29	-49.88	-13	-36.88	Pass	V
5807.92	154	212	-51.34	-13	-38.34	Pass	V
6651.86	155	1	-44.63	-13	-31.63	Pass	V

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Band 25 20775 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1313.02	154	319	-53.98	-13	-40.98	Pass	H
1689.14	151	93	-44.75	-13	-31.75	Pass	H
3953.05	147	228	-47.15	-13	-34.15	Pass	H
5881.52	147	318	-42.95	-13	-29.95	Pass	H
6477.33	150	240	-40.86	-13	-27.86	Pass	H
8023.44	150	233	-42.97	-13	-29.97	Pass	H
1279.18	147	184	-51.20	-13	-38.20	Pass	V
1446.05	154	333	-58.00	-13	-45.00	Pass	V
3625.97	152	111	-47.14	-13	-34.14	Pass	V
3845.41	149	109	-52.41	-13	-39.41	Pass	V
5899.83	146	317	-43.69	-13	-30.69	Pass	V
6634.63	151	134	-44.51	-13	-31.51	Pass	V

Band 25 21100 channel/BW 5 (middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1427.69	153	150	-55.68	-13	-42.68	Pass	H
1774.75	153	161	-45.55	-13	-32.55	Pass	H
3916.56	145	103	-49.59	-13	-36.59	Pass	H
5916.56	147	166	-43.75	-13	-30.75	Pass	H
6538.93	152	106	-44.02	-13	-31.02	Pass	H
7959.91	152	120	-42.83	-13	-29.83	Pass	H
1175.32	154	240	-57.24	-13	-44.24	Pass	V
1350.17	154	18	-60.87	-13	-47.87	Pass	V
3528.89	146	98	-46.33	-13	-33.33	Pass	V
3876.84	148	181	-44.32	-13	-31.32	Pass	V
5828.02	145	345	-46.68	-13	-33.68	Pass	V
6450.13	153	315	-45.45	-13	-32.45	Pass	V

Band 25 21425 channel/BW 5 (highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1403.65	146	6	-50.54	-13	-37.54	Pass	H
1605.01	148	101	-46.88	-13	-33.88	Pass	H
3998.02	154	77	-46.80	-13	-33.80	Pass	H
5963.19	153	122	-38.67	-13	-25.67	Pass	H
6525.29	150	74	-47.01	-13	-34.01	Pass	H
8034.51	154	239	-43.25	-13	-30.25	Pass	H
1261.02	148	13	-54.96	-13	-41.96	Pass	V
1493.80	155	188	-57.38	-13	-44.38	Pass	V
3453.66	150	316	-51.81	-13	-38.81	Pass	V
3880.90	146	287	-44.46	-13	-31.46	Pass	V
5827.65	146	138	-50.08	-13	-37.08	Pass	V
6657.90	148	325	-50.26	-13	-37.26	Pass	V

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Band 25 20775 channel/BW 5 (lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1257.40	147	351	-53.13	-13	-40.13	Pass	H
1681.25	146	306	-50.38	-13	-37.38	Pass	H
3993.77	154	189	-49.82	-13	-36.82	Pass	H
5815.14	147	241	-45.76	-13	-32.76	Pass	H
6531.19	153	16	-49.14	-13	-36.14	Pass	H
8022.41	148	258	-48.31	-13	-35.31	Pass	H
1154.10	151	328	-54.88	-13	-41.88	Pass	V
1517.89	152	176	-57.69	-13	-44.69	Pass	V
3538.78	150	353	-47.48	-13	-34.48	Pass	V
3784.68	152	67	-45.27	-13	-32.27	Pass	V
5741.37	147	54	-46.15	-13	-33.15	Pass	V
6506.99	149	33	-49.52	-13	-36.52	Pass	V

Band 25 21100 channel/BW 5 (middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1334.94	149	52	-56.63	-13	-43.63	Pass	H
1651.06	147	343	-53.22	-13	-40.22	Pass	H
3781.78	149	252	-46.62	-13	-33.62	Pass	H
5932.42	152	151	-43.76	-13	-30.76	Pass	H
6423.55	147	208	-48.38	-13	-35.38	Pass	H
8027.19	146	99	-44.09	-13	-31.09	Pass	H
1243.61	152	253	-50.81	-13	-37.81	Pass	V
1344.52	147	104	-66.20	-13	-53.20	Pass	V
3507.02	151	117	-50.37	-13	-37.37	Pass	V
3841.64	154	324	-52.55	-13	-39.55	Pass	V
5772.89	146	335	-48.77	-13	-35.77	Pass	V
6472.26	151	359	-51.75	-13	-38.75	Pass	V

Band 25 21425 channel/BW 5 (highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1242.73	147	33	-53.33	-13	-40.33	Pass	H
1604.83	154	295	-52.82	-13	-39.82	Pass	H
3807.37	149	180	-43.22	-13	-30.22	Pass	H
5872.20	147	41	-40.23	-13	-27.23	Pass	H
6460.49	152	105	-41.75	-13	-28.75	Pass	H
7948.97	151	312	-45.35	-13	-32.35	Pass	H
1228.21	149	94	-52.59	-13	-39.59	Pass	V
1403.59	148	27	-50.84	-13	-37.84	Pass	V
3432.25	151	74	-52.89	-13	-39.89	Pass	V
3903.76	154	137	-45.31	-13	-32.31	Pass	V
5748.68	145	217	-46.88	-13	-33.88	Pass	V
6518.99	146	252	-45.90	-13	-32.90	Pass	V

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Band 26 20775 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1292.69	143	49	-58.65	-13	-45.65	Pass	H
1611.44	156	249	-50.92	-13	-37.92	Pass	H
3997.02	147	278	-45.83	-13	-32.83	Pass	H
5907.13	160	28	-43.69	-13	-30.69	Pass	H
6481.20	149	169	-44.40	-13	-31.40	Pass	H
8177.83	151	147	-40.79	-13	-27.79	Pass	H
1301.08	148	150	-54.47	-13	-41.47	Pass	V
1484.09	152	229	-59.39	-13	-46.39	Pass	V
3613.73	158	257	-48.97	-13	-35.97	Pass	V
3877.78	159	26	-50.15	-13	-37.15	Pass	V
5743.66	157	174	-46.46	-13	-33.46	Pass	V
6590.27	153	79	-47.10	-13	-34.10	Pass	V

Band 26 21100 channel/BW 5 (middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1313.12	150	35	-54.25	-13	-41.25	Pass	H
1645.41	146	95	-49.72	-13	-36.72	Pass	H
3830.54	150	291	-47.56	-13	-34.56	Pass	H
5915.46	146	199	-44.26	-13	-31.26	Pass	H
6437.15	149	235	-51.20	-13	-38.20	Pass	H
8103.55	151	325	-49.26	-13	-36.26	Pass	H
1281.42	149	273	-55.17	-13	-42.17	Pass	V
1368.64	148	317	-61.64	-13	-48.64	Pass	V
3598.95	147	187	-55.43	-13	-42.43	Pass	V
3975.30	148	63	-50.74	-13	-37.74	Pass	V
5920.88	150	193	-48.98	-13	-35.98	Pass	V
6428.51	150	340	-49.06	-13	-36.06	Pass	V

Band 26 21425 channel/BW 5 (highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1343.88	149	39	-54.10	-13	-41.10	Pass	H
1759.95	145	304	-49.44	-13	-36.44	Pass	H
3839.72	150	137	-45.62	-13	-32.62	Pass	H
5959.01	149	167	-40.22	-13	-27.22	Pass	H
6490.40	152	347	-39.65	-13	-26.65	Pass	H
7921.24	153	121	-47.49	-13	-34.49	Pass	H
1332.14	147	233	-56.45	-13	-43.45	Pass	V
1388.50	147	139	-55.38	-13	-42.38	Pass	V
3430.44	152	312	-55.04	-13	-42.04	Pass	V
3851.16	150	172	-46.66	-13	-33.66	Pass	V
5841.55	150	125	-40.46	-13	-27.46	Pass	V
6614.31	145	68	-48.45	-13	-35.45	Pass	V

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Band 26 20775 channel/BW 5 (lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1284.57	151	81	-61.01	-13	-48.01	Pass	H
1709.23	151	114	-49.03	-13	-36.03	Pass	H
3806.62	149	172	-48.93	-13	-35.93	Pass	H
5980.63	147	30	-42.50	-13	-29.50	Pass	H
6469.18	154	149	-44.74	-13	-31.74	Pass	H
8057.19	155	129	-45.11	-13	-32.11	Pass	H
1218.21	147	319	-53.82	-13	-40.82	Pass	V
1414.00	153	16	-56.53	-13	-43.53	Pass	V
3645.63	147	77	-49.49	-13	-36.49	Pass	V
3827.65	153	37	-50.22	-13	-37.22	Pass	V
5906.14	146	119	-45.96	-13	-32.96	Pass	V
6490.33	149	126	-48.00	-13	-35.00	Pass	V

Band 26 21100 channel/BW 5 (middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1431.79	146	305	-56.27	-13	-41.45	Pass	H
1638.71	145	195	-47.20	-13	-37.85	Pass	H
3875.00	146	315	-46.61	-13	-35.2	Pass	H
5969.51	149	104	-43.38	-13	-30.39	Pass	H
6465.66	153	208	-44.88	-13	-32.24	Pass	H
8060.76	146	182	-40.26	-13	-30.22	Pass	H
1140.86	154	326	-59.24	-13	-44.9	Pass	V
1291.04	151	351	-53.27	-13	-43.63	Pass	V
3560.54	149	20	-46.12	-13	-35.94	Pass	V
3907.44	147	15	-46.11	-13	-36.01	Pass	V
5767.32	150	149	-49.31	-13	-33.75	Pass	V
6470.34	153	151	-41.88	-13	-32.41	Pass	V

Band 26 21425 channel/BW 5 (highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1234.64	150	136	-57.73	-13	-44.73	Pass	H
1719.50	149	188	-47.17	-13	-34.17	Pass	H
3807.06	151	17	-40.66	-13	-27.66	Pass	H
5864.10	146	21	-39.99	-13	-26.99	Pass	H
6444.06	146	128	-42.68	-13	-29.68	Pass	H
8125.04	145	68	-47.68	-13	-34.68	Pass	H
1154.32	153	178	-57.30	-13	-44.30	Pass	V
1543.65	153	17	-61.90	-13	-48.90	Pass	V
3573.88	147	314	-52.78	-13	-39.78	Pass	V
3770.16	149	18	-48.55	-13	-35.55	Pass	V
5718.38	148	47	-48.91	-13	-35.91	Pass	V
6477.52	146	166	-42.83	-13	-29.83	Pass	V

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Band 38 37775 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1289.80	151	99	-57.06	-25	-32.06	Pass	H
1758.88	154	259	-45.44	-25	-20.44	Pass	H
3843.96	155	167	-48.10	-25	-23.10	Pass	H
5930.79	151	204	-40.69	-25	-15.69	Pass	H
6584.45	149	224	-45.74	-25	-20.74	Pass	H
7906.68	155	65	-43.47	-25	-18.47	Pass	H
1204.83	154	192	-56.87	-25	-31.87	Pass	V
1361.42	149	182	-56.22	-25	-31.22	Pass	V
3566.36	149	247	-45.72	-25	-20.72	Pass	V
3792.21	146	124	-52.30	-25	-27.30	Pass	V
5822.26	145	247	-42.01	-25	-17.01	Pass	V
6549.85	146	61	-49.02	-25	-24.02	Pass	V

Band 38 38000 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1235.50	151	190	-58.53	-25	-33.53	Pass	H
1626.60	152	116	-51.74	-25	-26.74	Pass	H
3801.85	148	356	-48.79	-25	-23.79	Pass	H
5758.70	146	317	-45.41	-25	-20.41	Pass	H
6397.73	152	83	-40.66	-25	-15.66	Pass	H
7897.56	153	358	-44.66	-25	-19.66	Pass	H
1120.92	148	149	-56.95	-25	-31.95	Pass	V
1339.96	149	30	-61.55	-25	-36.55	Pass	V
3470.13	150	301	-50.96	-25	-25.96	Pass	V
3737.68	155	353	-50.14	-25	-25.14	Pass	V
5703.14	151	122	-41.90	-25	-16.90	Pass	V
6454.05	150	303	-45.56	-25	-20.56	Pass	V

Band 38 38225 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1341.95	149	295	-56.68	-25	-31.68	Pass	H
1732.22	150	120	-51.25	-25	-26.25	Pass	H
3818.74	154	220	-52.46	-25	-27.46	Pass	H
5792.75	149	98	-44.93	-25	-19.93	Pass	H
6570.65	151	293	-44.31	-25	-19.31	Pass	H
8090.19	148	315	-45.92	-25	-20.92	Pass	H
1227.46	149	303	-55.87	-25	-30.87	Pass	V
1458.78	145	352	-61.44	-25	-36.44	Pass	V
3618.21	153	285	-52.45	-25	-27.45	Pass	V
3803.27	150	104	-51.09	-25	-26.09	Pass	V
5738.03	153	68	-41.66	-25	-16.66	Pass	V
6645.77	152	44	-46.81	-25	-21.81	Pass	V

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Band 38 37775 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1338.03	150	273	-52.95	-25	-27.95	Pass	H
1660.35	154	79	-48.85	-25	-23.85	Pass	H
3814.21	153	354	-49.10	-25	-24.10	Pass	H
5950.37	152	311	-48.33	-25	-23.33	Pass	H
6568.08	152	17	-46.36	-25	-21.36	Pass	H
8075.12	149	345	-39.83	-25	-14.83	Pass	H
1285.13	151	272	-56.71	-25	-31.71	Pass	V
1485.96	147	327	-52.25	-25	-27.25	Pass	V
3589.07	152	181	-47.89	-25	-22.89	Pass	V
3895.48	147	342	-51.49	-25	-26.49	Pass	V
5777.67	147	282	-44.47	-25	-19.47	Pass	V
6490.23	154	223	-52.73	-25	-27.73	Pass	V

Band 38 38000 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1375.79	151	232	-54.14	-25	-29.14	Pass	H
1666.44	149	247	-52.80	-25	-27.80	Pass	H
3880.98	150	287	-51.13	-25	-26.13	Pass	H
5886.32	146	268	-46.90	-25	-21.90	Pass	H
6550.36	146	5	-47.34	-25	-22.34	Pass	H
8038.41	151	93	-44.04	-25	-19.04	Pass	H
1206.18	149	325	-60.64	-25	-35.64	Pass	V
1480.82	154	304	-55.94	-25	-30.94	Pass	V
3601.54	150	170	-51.29	-25	-26.29	Pass	V
3819.16	152	162	-53.03	-25	-28.03	Pass	V
5857.35	153	197	-44.85	-25	-19.85	Pass	V
6478.61	153	131	-48.18	-25	-23.18	Pass	V

Band 38 38225 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1388.28	154	310	-58.32	-25	-33.32	Pass	H
1739.06	150	41	-52.50	-25	-27.50	Pass	H
3822.67	151	87	-49.74	-25	-24.74	Pass	H
5832.09	153	159	-45.93	-25	-20.93	Pass	H
6472.60	145	283	-47.50	-25	-22.50	Pass	H
7981.39	152	227	-42.63	-25	-17.63	Pass	H
1132.54	151	110	-57.34	-25	-32.34	Pass	V
1478.78	149	113	-56.60	-25	-31.60	Pass	V
3592.75	149	34	-49.19	-25	-24.19	Pass	V
3919.30	149	55	-49.71	-25	-24.71	Pass	V
5866.08	155	282	-44.67	-25	-19.67	Pass	V
6548.63	153	85	-51.51	-25	-26.51	Pass	V

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Band 41 40265 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1246.56	150	6	-53.29	-25	-28.29	Pass	H
1773.69	145	338	-47.13	-25	-22.13	Pass	H
3911.02	154	196	-47.58	-25	-22.58	Pass	H
5885.13	148	201	-43.64	-25	-18.64	Pass	H
6600.65	154	88	-45.62	-25	-20.62	Pass	H
8112.91	149	131	-43.29	-25	-18.29	Pass	H
1134.91	146	30	-53.03	-25	-28.03	Pass	V
1513.93	151	270	-58.81	-25	-33.81	Pass	V
3627.50	145	243	-53.10	-25	-28.10	Pass	V
3778.70	150	130	-51.16	-25	-26.16	Pass	V
5870.42	147	153	-43.40	-25	-18.40	Pass	V
6606.95	152	146	-45.35	-25	-20.35	Pass	V

Band 41 40740 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1347.35	154	65	-54.34	-25	-29.34	Pass	H
1653.38	155	178	-45.79	-25	-20.79	Pass	H
3905.29	155	150	-43.27	-25	-18.27	Pass	H
5957.72	149	117	-42.92	-25	-17.92	Pass	H
6437.63	151	276	-39.01	-25	-14.01	Pass	H
8071.25	153	114	-47.76	-25	-22.76	Pass	H
1184.43	148	100	-56.40	-25	-31.40	Pass	V
1407.05	154	345	-57.00	-25	-32.00	Pass	V
3632.63	152	329	-52.04	-25	-27.04	Pass	V
3734.11	152	124	-47.98	-25	-22.98	Pass	V
5842.24	149	99	-46.87	-25	-21.87	Pass	V
6633.86	151	158	-44.79	-25	-19.79	Pass	V

Band 41 41215 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1342.51	148	187	-55.72	-25	-30.72	Pass	H
1636.90	153	152	-51.28	-25	-26.28	Pass	H
3814.27	148	318	-42.09	-25	-17.09	Pass	H
5906.91	150	308	-42.84	-25	-17.84	Pass	H
6474.16	155	237	-45.80	-25	-20.80	Pass	H
8058.62	153	59	-46.72	-25	-21.72	Pass	H
1270.78	147	299	-52.75	-25	-27.75	Pass	V
1528.72	150	169	-60.30	-25	-35.30	Pass	V
3482.03	152	4	-49.18	-25	-24.18	Pass	V
3808.11	152	306	-53.89	-25	-28.89	Pass	V
5861.04	151	351	-43.63	-25	-18.63	Pass	V
6516.31	148	55	-48.87	-25	-23.87	Pass	V

16QAM

Band 41 40265 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1416.49	148	284	-51.98	-25	-26.98	Pass	H
1759.92	146	169	-46.73	-25	-21.73	Pass	H
3913.69	152	253	-44.90	-25	-19.90	Pass	H
5930.89	151	253	-39.72	-25	-14.72	Pass	H
6427.79	146	136	-42.92	-25	-17.92	Pass	H
8003.22	150	100	-44.32	-25	-19.32	Pass	H
1127.41	154	120	-50.83	-25	-25.83	Pass	V
1378.48	148	146	-61.80	-25	-36.80	Pass	V
3555.18	148	130	-54.73	-25	-29.73	Pass	V
3847.73	152	329	-48.11	-25	-23.11	Pass	V
5800.33	152	63	-48.12	-25	-23.12	Pass	V
6564.74	149	157	-44.75	-25	-19.75	Pass	V

Band 41 40740 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1250.67	154	19	-52.98	-25	-27.98	Pass	H
1759.00	152	15	-43.93	-25	-18.93	Pass	H
3878.48	146	35	-41.10	-25	-16.10	Pass	H
5983.63	146	294	-39.89	-25	-14.89	Pass	H
6497.83	151	320	-42.94	-25	-17.94	Pass	H
8159.77	154	258	-43.18	-25	-18.18	Pass	H
1162.49	149	198	-55.40	-25	-30.40	Pass	V
1412.83	153	185	-57.32	-25	-32.32	Pass	V
3510.59	153	333	-53.76	-25	-28.76	Pass	V
3863.78	148	171	-48.87	-25	-23.87	Pass	V
5888.60	146	35	-47.61	-25	-22.61	Pass	V
6554.43	147	41	-45.27	-25	-20.27	Pass	V

Band 41 41215 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1390.53	150	10	-58.96	-25	-33.96	Pass	H
1733.06	151	211	-48.40	-25	-23.40	Pass	H
3917.55	154	58	-45.76	-25	-20.76	Pass	H
5957.63	151	175	-40.17	-25	-15.17	Pass	H
6539.53	148	88	-45.32	-25	-20.32	Pass	H
8097.28	155	42	-43.17	-25	-18.17	Pass	H
1164.42	148	281	-52.59	-25	-27.59	Pass	V
1454.04	148	135	-55.95	-25	-30.95	Pass	V
3576.17	149	258	-52.65	-25	-27.65	Pass	V
3848.11	148	164	-53.72	-25	-28.72	Pass	V
5734.67	150	162	-49.23	-25	-24.23	Pass	V
6558.54	151	133	-49.30	-25	-24.30	Pass	V

Note:

3) Scan from 9kHz to 25GHz, 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.

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=DC 3.7V; Low Voltage LV=DC 3.33V; High Voltage HV=DC 4.07V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

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