

TEST REPORT

Product Name: Tablet PC
FCC ID: 2BB4G-VT102
Trademark: N/A
Model Number: VT10M2, VT10P2
Prepared For: Venturo Co.,Ltd.
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Manufacturer: Venturo Co.,Ltd.
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Sample Received Date: Aug. 26, 2023
Sample tested Date: Aug. 26, 2023 to Sep. 12, 2023
Issue Date: Sep. 12, 2023
Report No.: CTB230912050RFX
Test Standards: FCC Part 2, 22, 24E, 27
Test Results: PASS
Remark: This is LTE radio test report.

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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
CTB230912050RFX	Sep. 12, 2023	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 chamber Radiated spurious emission(30MHz-1GHz)	4.6dB
3m chamber Radiated spurious emission(1GHz-18GHz)	5.1dB
3m chamber Radiated spurious emission(18GHz-40GHz)	3.4dB
Receiver Reference Sensitivity level	1.9dB
humidity uncertainty	5.5%
Temperature uncertainty	0.63°C
frequency	1×10 ⁻⁷

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	VT10M2, VT10P2
Model Description:	All the model are the same circuit and RF module, only for model name. Test sample model: VT10M2
Hardware Version:	M863YA
Software Version:	M863YAR330.HY.918-MMI.T0.CEM3.3G.2023082114.74941BEB43.USERDEB UG
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 FDD-LTE BAND 17: 704-716MHz FDD-LTE BAND 25: 1850-1915MHz FDD-LTE BAND 26: 824-849MHz TDD-LTE BAND 41: 2555-2655 MHz FDD-LTE BAND 66: 1710-1780MHz TDD-LTE BAND 71: 663-698MHz
Max. RF output power:	FDD-LTE BAND 2: 21.68dBm FDD-LTE BAND 4: 23.05dBm FDD-LTE BAND 5: 23.82dBm FDD-LTE BAND 12: 23.57dBm FDD-LTE BAND 17: 24.98dBm FDD-LTE BAND 25: 22.14dBm FDD-LTE BAND 26: 23.32dBm TDD-LTE BAND 41: 23.00dBm FDD-LTE BAND 66: 23.39dBm TDD-LTE BAND 71: 23.16dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	FPC antenna
Antenna Gain:	FDD-LTE BAND 2: -1.06dBi FDD-LTE BAND 4: -0.1dBi FDD-LTE BAND 5: -7.64dBi FDD-LTE BAND 12: -6.56 dBi FDD-LTE BAND 17: -6.56dBi FDD-LTE BAND 25: -1.06 dBi FDD-LTE BAND 26: -7.64dBi TDD-LTE BAND 41: -0.36dBi FDD-LTE BAND 66: -0.1dBi TDD-LTE BAND 71: -4.82dBi
Ratings:	DC 5V charging from adapter DC 3.8V from battery

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
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
TM5	FDD -LTE BAND17	Low, Middle, High Channels
TM6	FDD -LTE BAND 25	Low, Middle, High Channels
TM7	FDD-LTE BAND26	Low, Middle, High Channels
TM8	TDD-LTE BAND 41	Low, Middle, High Channels
TM9	FDD-LTE BAND 66	Low, Middle, High Channels
TM10	TDD-LTE BAND 71	Low, Middle, High Channels

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	3.8V
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, Xinhua 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

Item	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	2024.07.05
2	Power Sensor	Agilent	U2021XA	MY56120032	2024.07.05
3	Power Sensor	Agilent	U2021XA	MY56120034	2024.07.05
4	Communication test set	R&S	CMW500	108058	2024.07.05
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	2024.07.05
6	Signal Generator	Agilent	N5181A	MY50140365	2024.07.05
7	Vector signal generator	Agilent	N5182A	MY47420195	2024.07.05
8	Communication test set	Agilent	E5515C	MY50102567	2024.07.06
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	2024.07.05
10	5 GHz Filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	2024.07.06
11	Filter	Xingbo	XBLBQ-DZA120	190821-1-1	2024.07.06
12	BT&WI-FI Automatic test software	Microwave	MTS8000	Ver. 2.0.0.0	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	2023.10.30
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	2024.07.05
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/
16	966 chamber	C.R.T.	966	/	2024.08.11
17	Receiver	R&S	ESPI	100362	2024.07.05
18	Amplifier	HP	8447E	2945A02747	2024.07.05
19	Amplifier	Agilent	8449B	3008A01838	2024.07.05
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	2024.07.08

21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	2024.07.08
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	2024.07.08
24	loop antenna	ZHINAN	ZN30900A	GTS534	/
25	40G Horn antenna	A/H/System	SAS-574	588	2023.10.30
26	Amplifier	AEROFLEX	Aeroflex	097	2023.10.30

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.

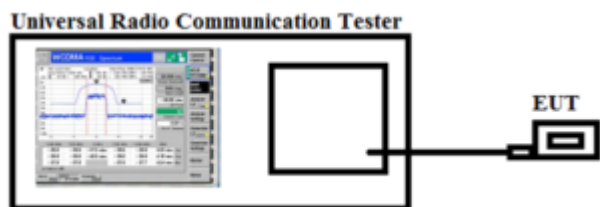
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

Max. Radiated Power:
FDD-LTE Band 2

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	20.07	<33.00	PASS
		H	20.36		
	MCH	V	21.05		PASS
		H	19.89		
	HCH	V	20.42		PASS
		H	20.63		
16QAM	LCH	V	19.99	<33.00	PASS
		H	20.24		
	MCH	V	20.44		PASS
		H	21.15		
	HCH	V	20.86		PASS
		H	20.79		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	20.97	<33.00	PASS
		H	19.87		
	MCH	V	21.02		PASS
		H	20.53		
	HCH	V	19.51		PASS
		H	21.17		
16QAM	LCH	V	20.28	<33.00	PASS
		H	20.59		
	MCH	V	20.67		PASS
		H	20.53		
	HCH	V	19.63		PASS
		H	21.36		
Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	19.70	<33.00	PASS
		H	20.29		
	MCH	V	19.26		PASS

	HCH	H	19.15		PASS
		V	20.87		
		H	20.76		
16QAM	LCH	V	20.80	<33.00	PASS
		H	19.58		
	MCH	V	19.45		PASS
		H	20.37		
	HCH	V	20.72		PASS
		H	20.72		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	19.77	<33.00	PASS
		H	20.03		
	MCH	V	19.74		PASS
		H	20.75		
	HCH	V	20.62		PASS
		H	20.66		
16QAM	LCH	V	20.10	<33.00	PASS
		H	19.93		
	MCH	V	21.13		PASS
		H	20.20		
	HCH	V	20.90		PASS
		H	19.80		
Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	19.98	<33.00	PASS
		H	21.36		
	MCH	V	21.08		PASS
		H	20.53		
	HCH	V	20.72		PASS
		H	20.35		
16QAM	LCH	V	21.42	<33.00	PASS
		H	20.10		
	MCH	V	20.00		PASS
		H	19.88		
	HCH	V	19.81		PASS
		H	21.49		

Channel Bandwidth: 20 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.68	<33.00	PASS
		H	19.99		
	MCH	V	20.05		PASS
		H	20.64		
	HCH	V	20.50		PASS
		H	19.95		
16QAM	LCH	V	21.55	<33.00	PASS
		H	21.38		
	MCH	V	21.31		PASS
		H	20.08		
	HCH	V	20.28		PASS
		H	21.02		

FDD-LTE Band 4

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.97	<30.00	PASS
		H	21.84		
	MCH	V	21.26		PASS
		H	20.69		
	HCH	V	21.42		PASS
		H	21.46		
16QAM	LCH	V	22.46	<30.00	PASS
		H	22.37		
	MCH	V	21.13		PASS
		H	22.42		
	HCH	V	20.67		PASS
		H	20.57		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	20.58	<30.00	PASS
		H	20.78		
	MCH	V	22.47		PASS
		H	21.65		

	HCH	V	21.98		PASS
		H	21.86		
16QAM	LCH	V	20.61	<30.00	PASS
		H	21.85		
	MCH	V	21.39		PASS
		H	21.75		
	HCH	V	22.24		PASS
		H	22.47		
Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.30	<30.00	PASS
		H	21.61		
	MCH	V	20.95		PASS
		H	20.99		
	HCH	V	21.59		PASS
		H	21.67		
16QAM	LCH	V	20.83	<30.00	PASS
		H	22.09		
	MCH	V	21.20		PASS
		H	21.02		
	HCH	V	22.35		PASS
		H	21.96		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.60	<30.00	PASS
		H	20.73		
	MCH	V	21.09		PASS
		H	21.60		
	HCH	V	20.98		PASS
		H	21.67		
16QAM	LCH	V	22.10	<30.00	PASS
		H	22.03		
	MCH	V	21.70		PASS
		H	20.92		
	HCH	V	21.40		PASS
		H	21.30		

Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.43	<30.00	PASS
		H	20.58		
	MCH	V	20.57		PASS
		H	21.66		
	HCH	V	21.81		PASS
		H	21.89		
16QAM	LCH	V	22.51	<30.00	PASS
		H	20.84		
	MCH	V	22.14		PASS
		H	22.42		
	HCH	V	21.60		PASS
		H	21.12		
Channel Bandwidth: 20 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.05	<30.00	PASS
		H	22.21		
	MCH	V	21.23		PASS
		H	22.16		
	HCH	V	20.90		PASS
		H	21.50		
16QAM	LCH	V	22.98	<30.00	PASS
		H	21.67		
	MCH	V	22.29		PASS
		H	21.32		
	HCH	V	21.92		PASS
		H	21.74		

FDD-LTE Band 5

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.25	<34.77	PASS
		H	23.01		
	MCH	V	23.49		PASS
		H	22.29		
	HCH	V	21.65		PASS
		H	21.59		
16QAM	LCH	V	21.94	<34.77	PASS
		H	23.04		
	MCH	V	21.60		PASS
		H	22.09		
	HCH	V	22.11		PASS
		H	23.29		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.31	<34.77	PASS
		H	22.50		
	MCH	V	22.86		PASS
		H	22.33		
	HCH	V	21.96		PASS
		H	22.74		
16QAM	LCH	V	23.28	<34.77	PASS
		H	21.60		
	MCH	V	23.01		PASS
		H	21.71		
	HCH	V	22.70		PASS
		H	23.23		
Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.89	<34.77	PASS
		H	23.47		
	MCH	V	22.47		PASS
		H	23.43		
	HCH	V	23.17		PASS
		H	22.31		

16QAM	LCH	V	21.84	<34.77	PASS
		H	22.54		
	MCH	V	23.48		PASS
		H	22.18		
	HCH	V	22.38		PASS
		H	22.37		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.82	<34.77	PASS
		H	22.82		
	MCH	V	23.22		PASS
		H	23.32		
	HCH	V	23.35		PASS
		H	23.08		
16QAM	LCH	V	23.79	<34.77	PASS
		H	21.51		
	MCH	V	21.77		PASS
		H	22.10		
	HCH	V	22.41		PASS
		H	22.22		

FDD-LTE Band 12

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.84	<34.77	PASS
		H	22.24		
	MCH	V	22.28		PASS
		H	21.86		
	HCH	V	23.36		PASS
		H	22.35		
16QAM	LCH	V	21.90	<34.77	PASS
		H	21.68		
	MCH	V	22.22		PASS
		H	22.39		
	HCH	V	23.19		PASS
		H	22.49		

Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.42	<34.77	PASS
		H	21.83		
	MCH	V	20.53		PASS
		H	21.58		
	HCH	V	20.82		PASS
		H	20.93		
16QAM	LCH	V	21.09	<34.77	PASS
		H	22.44		
	MCH	V	21.66		PASS
		H	21.77		
	HCH	V	21.58		PASS
		H	20.83		
Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	20.70	<34.77	PASS
		H	20.64		
	MCH	V	21.33		PASS
		H	22.36		
	HCH	V	22.14		PASS
		H	21.59		
16QAM	LCH	V	21.66	<34.77	PASS
		H	20.88		
	MCH	V	21.13		PASS
		H	21.18		
	HCH	V	21.76		PASS
		H	20.65		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.57	<34.77	PASS
		H	21.94		
	MCH	V	20.81		PASS
		H	21.47		
	HCH	V	21.02		PASS
		H	21.23		

16QAM	LCH	V	23.55	<34.77	PASS
		H	22.19		
	MCH	V	22.36		PASS
		H	21.15		
	HCH	V	21.02		PASS
		H	21.34		

FDD-LTE Band 17

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.80	<34.77	PASS
		H	24.21		
	MCH	V	23.51		PASS
		H	24.43		
	HCH	V	23.04		PASS
		H	23.76		
16QAM	LCH	V	23.55	<34.77	PASS
		H	23.93		
	MCH	V	24.02		PASS
		H	23.48		
	HCH	V	23.41		PASS
		H	23.25		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	24.98	<34.77	PASS
		H	23.76		
	MCH	V	24.27		PASS
		H	23.03		
	HCH	V	22.52		PASS
		H	23.35		
16QAM	LCH	V	24.85	<34.77	PASS
		H	23.44		
	MCH	V	23.26		PASS
		H	24.43		
	HCH	V	24.26		PASS
		H	23.08		

FDD-LTE Band 25

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.32	<33.00	PASS
		H	21.36		
	MCH	V	19.92		PASS
		H	20.95		
	HCH	V	20.82		PASS
		H	20.47		
16QAM	LCH	V	21.11	<33.00	PASS
		H	21.00		
	MCH	V	21.71		PASS
		H	20.05		
	HCH	V	21.33		PASS
		H	20.51		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.74	<33.00	PASS
		H	20.53		
	MCH	V	21.46		PASS
		H	19.83		
	HCH	V	20.00		PASS
		H	21.04		
16QAM	LCH	V	20.93	<33.00	PASS
		H	21.07		
	MCH	V	20.35		PASS
		H	20.35		
	HCH	V	20.88		PASS
		H	19.81		
Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.47	<33.00	PASS
		H	21.24		
	MCH	V	19.92		PASS
		H	21.11		
	HCH	V	20.37		PASS
		H	20.97		

16QAM	LCH	V	20.53	<33.00	PASS
		H	20.69		
	MCH	V	21.11		PASS
		H	21.26		
	HCH	V	21.74		PASS
		H	20.84		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	19.67	<33.00	PASS
		H	21.18		
	MCH	V	20.01		PASS
		H	21.18		
	HCH	V	20.97		PASS
		H	20.81		
16QAM	LCH	V	19.97	<33.00	PASS
		H	19.93		
	MCH	V	19.67		PASS
		H	20.64		
	HCH	V	19.56		PASS
		H	20.47		
Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	19.52	<33.00	PASS
		H	21.15		
	MCH	V	20.79		PASS
		H	20.05		
	HCH	V	19.90		PASS
		H	19.79		
16QAM	LCH	V	20.77	<33.00	PASS
		H	19.95		
	MCH	V	21.02		PASS
		H	19.75		
	HCH	V	20.61		PASS
		H	20.77		

Channel Bandwidth: 20 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.14	<33.00	PASS
		H	20.56		
	MCH	V	20.67		PASS
		H	20.99		
	HCH	V	20.44		PASS
		H	21.30		
16QAM	LCH	V	22.00	<33.00	PASS
		H	20.09		
	MCH	V	20.44		PASS
		H	19.82		
	HCH	V	21.44		PASS
		H	20.40		

FDD-LTE Band 26

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.41	<33.00	PASS
		H	23.02		
	MCH	V	22.29		PASS
		H	22.54		
	HCH	V	21.96		PASS
		H	22.66		
16QAM	LCH	V	22.46	<33.00	PASS
		H	22.73		
	MCH	V	21.97		PASS
		H	23.17		
	HCH	V	22.32		PASS
		H	22.38		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.60	<33.00	PASS
		H	22.67		
	MCH	V	21.68		PASS
		H	21.57		

	HCH	V	22.58		PASS
		H	21.82		
16QAM	LCH	V	22.88	<33.00	PASS
		H	21.89		
	MCH	V	21.87		PASS
		H	23.00		
	HCH	V	23.21		PASS
		H	22.79		
Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.95	<33.00	PASS
		H	21.68		
	MCH	V	22.31		PASS
		H	22.21		
	HCH	V	23.07		PASS
		H	22.28		
16QAM	LCH	V	23.07	<33.00	PASS
		H	22.45		
	MCH	V	22.90		PASS
		H	22.75		
	HCH	V	21.83		PASS
		H	22.92		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.16	<33.00	PASS
		H	22.62		
	MCH	V	22.69		PASS
		H	21.80		
	HCH	V	23.05		PASS
		H	23.24		
16QAM	LCH	V	22.74	<33.00	PASS
		H	21.79		
	MCH	V	22.15		PASS
		H	23.20		
	HCH	V	22.32		PASS
		H	21.81		

Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.32	<33.00	PASS
		H	21.12		
	MCH	V	22.16		PASS
		H	22.90		
	HCH	V	21.96		PASS
		H	22.38		
16QAM	LCH	V	23.28	<33.00	PASS
		H	21.34		
	MCH	V	22.28		PASS
		H	21.23		
	HCH	V	21.85		PASS
		H	22.01		

TDD-LTE Band 41

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.54	<33.00	PASS
		H	20.12		
	MCH	V	19.90		PASS
		H	21.40		
	HCH	V	20.26		PASS
		H	20.94		
16QAM	LCH	V	20.78	<33.00	PASS
		H	20.78		
	MCH	V	20.49		PASS
		H	20.54		
	HCH	V	20.39		PASS
		H	20.27		

Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.79	<33.00	PASS
		H	20.12		
	MCH	V	21.82		PASS
		H	21.45		
	HCH	V	20.02		PASS
		H	19.99		
16QAM	LCH	V	20.77	<33.00	PASS
		H	20.05		
	MCH	V	20.94		PASS
		H	21.55		
	HCH	V	21.15		PASS
		H	21.06		
Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	20.26	<33.00	PASS
		H	21.10		
	MCH	V	20.45		PASS
		H	20.35		
	HCH	V	19.73		PASS
		H	20.33		
16QAM	LCH	V	20.87	<33.00	PASS
		H	20.26		
	MCH	V	19.62		PASS
		H	19.92		
	HCH	V	20.30		PASS
		H	20.90		
Channel Bandwidth: 20 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.00	<33.00	PASS
		H	21.05		
	MCH	V	21.97		PASS
		H	20.85		
	HCH	V	21.19		PASS
		H	20.66		

16QAM	LCH	V	22.98	<33.00	PASS
		H	20.92		
	MCH	V	20.97		PASS
		H	22.47		
	HCH	V	21.66		PASS
		H	20.76		

FDD-LTE Band 66

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.09	<30.00	PASS
		H	21.52		
	MCH	V	22.20		PASS
		H	21.94		
	HCH	V	22.55		PASS
		H	21.90		
16QAM	LCH	V	22.60	<30.00	PASS
		H	22.68		
	MCH	V	21.56		PASS
		H	22.72		
	HCH	V	21.80		PASS
		H	22.32		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.62	<30.00	PASS
		H	20.64		
	MCH	V	22.27		PASS
		H	21.51		
	HCH	V	22.51		PASS
		H	20.95		
16QAM	LCH	V	21.56	<30.00	PASS
		H	21.08		
	MCH	V	22.43		PASS
		H	21.75		
	HCH	V	22.58		PASS
		H	21.81		

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.70	<30.00	PASS
		H	22.09		
	MCH	V	21.59		PASS
		H	22.36		
	HCH	V	21.21		PASS
		H	21.43		
16QAM	LCH	V	21.56	<30.00	PASS
		H	22.51		
	MCH	V	22.95		PASS
		H	21.18		
	HCH	V	21.29		PASS
		H	22.95		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.06	<30.00	PASS
		H	21.36		
	MCH	V	20.19		PASS
		H	20.98		
	HCH	V	20.79		PASS
		H	20.33		
16QAM	LCH	V	20.11	<30.00	PASS
		H	21.28		
	MCH	V	21.28		PASS
		H	21.58		
	HCH	V	20.69		PASS
		H	20.71		

Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.03	<30.00	PASS
		H	21.51		
	MCH	V	20.33		PASS
		H	20.57		
	HCH	V	21.00		PASS
		H	21.33		
16QAM	LCH	V	21.59	<30.00	PASS
		H	20.51		
	MCH	V	21.94		PASS
		H	21.72		
	HCH	V	21.45		PASS
		H	20.03		
Channel Bandwidth: 20 MHz					
Modulation	Channel	Antenna Polar	EIRP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.39	<30.00	PASS
		H	20.83		
	MCH	V	22.49		PASS
		H	20.85		
	HCH	V	22.38		PASS
		H	21.63		
16QAM	LCH	V	23.22	<30.00	PASS
		H	22.43		
	MCH	V	22.39		PASS
		H	21.41		
	HCH	V	21.84		PASS
		H	20.74		

TDD-LTE Band 71

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.46	<30.00	PASS
		H	21.64		
	MCH	V	21.27		PASS
		H	21.81		
	HCH	V	22.23		PASS
		H	22.53		
16QAM	LCH	V	22.23	<30.00	PASS
		H	20.83		
	MCH	V	20.96		PASS
		H	21.60		
	HCH	V	21.98		PASS
		H	21.15		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.48	<30.00	PASS
		H	22.44		
	MCH	V	21.49		PASS
		H	20.72		
	HCH	V	22.00		PASS
		H	22.49		
16QAM	LCH	V	21.84	<30.00	PASS
		H	20.78		
	MCH	V	22.19		PASS
		H	21.91		
	HCH	V	20.73		PASS
		H	21.08		

Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.78	<30.00	PASS
		H	20.79		
	MCH	V	21.11		PASS
		H	21.78		
	HCH	V	20.93		PASS
		H	20.85		
16QAM	LCH	V	22.15	<30.00	PASS
		H	22.45		
	MCH	V	21.62		PASS
		H	21.23		
	HCH	V	21.31		PASS
		H	21.39		
Channel Bandwidth: 20 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.16	<30.00	PASS
		H	22.95		
	MCH	V	22.67		PASS
		H	21.81		
	HCH	V	22.14		PASS
		H	21.98		
16QAM	LCH	V	23.00	<30.00	PASS
		H	22.23		
	MCH	V	21.98		PASS
		H	20.87		
	HCH	V	21.22		PASS
		H	21.05		

Max. Conducted Output Power

Please refer to Appendix A: Average Power Output Data

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

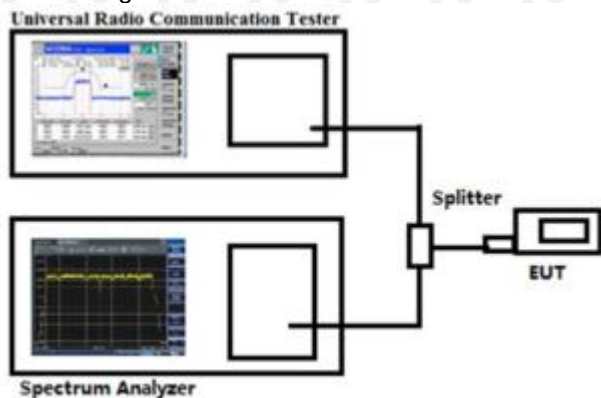
corresponding to the highest PAPR expected during periods of continuous transmission.

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 B: 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.

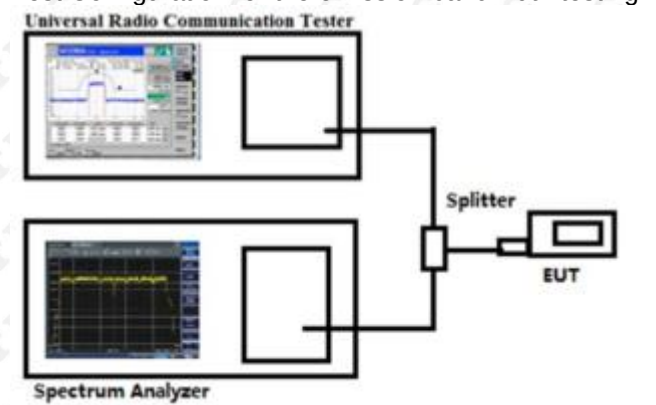
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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 C: 26dB Bandwidth and Occupied Bandwidth
Test result: Pass

10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

10.1 Standard Applicable

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

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

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

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

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

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

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

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

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

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

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

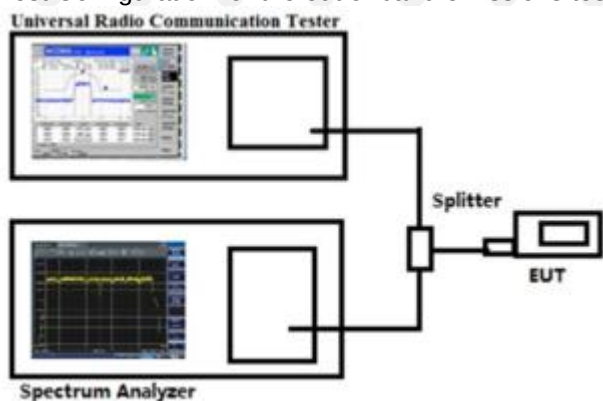
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$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

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

10.2 Test Procedure

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

Test Configuration for the out of band emissions testing:



10.3 Summary of Test Results/Plots

Please refer to Appendix D & E: Band Edge & Conducted Spurious Emission

Test result: Pass

11. SPURIOUS RADIATED EMISSIONS

11.1 Standard Applicable

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

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

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

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

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

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

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

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

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

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

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

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

11.2 Test Procedure

1. The setup of EUT is according with per ANSI/TIA-603-E and ANSI C63.4-2014 measurement procedure.
 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
 4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.
- Spurious attenuation limit in dB = $43 + 10 \log_{10}(\text{power out in Watts})$

11.3 Summary of Test Results/Plots

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

Test Data:
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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.
1332.62	153	108	-57.96	-13	-44.96	Pass	H
1764.22	144	45	-49.43	-13	-36.43	Pass	H
3991.56	157	306	-47.45	-13	-34.45	Pass	H
5933.31	158	150	-46.86	-13	-33.86	Pass	H
6467.31	150	281	-41.74	-13	-28.74	Pass	H
8040.09	159	28	-41.50	-13	-28.50	Pass	H
1153.73	144	141	-54.47	-13	-41.47	Pass	V
1540.56	141	54	-59.78	-13	-46.78	Pass	V
3498.78	149	241	-50.22	-13	-37.22	Pass	V
3887.04	159	165	-51.84	-13	-38.84	Pass	V
5761.09	154	273	-49.06	-13	-36.06	Pass	V
6617.96	142	110	-47.75	-13	-34.75	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.
1276.71	150	27	-54.03	-13	-41.03	Pass	H
1639.56	146	173	-51.56	-13	-38.56	Pass	H
3939.45	150	62	-47.83	-13	-34.83	Pass	H
5942.04	146	305	-42.68	-13	-29.68	Pass	H
6552.54	149	215	-51.50	-13	-38.50	Pass	H
7941.79	151	257	-46.07	-13	-33.07	Pass	H
1325.27	149	140	-52.97	-13	-39.97	Pass	V
1435.21	148	6	-61.93	-13	-48.93	Pass	V
3505.95	147	309	-55.72	-13	-42.72	Pass	V
3973.64	148	20	-50.95	-13	-37.95	Pass	V
5738.10	150	18	-50.93	-13	-37.93	Pass	V
6480.16	150	60	-50.68	-13	-37.68	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.
1340.71	155	156	-56.73	-13	-43.73	Pass	H
1669.90	147	32	-52	-13	-39	Pass	H
3845.50	153	328	-45.66	-13	-32.66	Pass	H
5906.91	148	250	-40.96	-13	-27.96	Pass	H
6531.65	152	232	-42.47	-13	-29.47	Pass	H
8000.07	148	63	-44.74	-13	-31.74	Pass	H
1257.63	147	4	-56.49	-13	-43.49	Pass	V
1403.18	150	188	-56.84	-13	-43.84	Pass	V
3525.24	153	310	-52.79	-13	-39.79	Pass	V
3912.13	147	57	-48.59	-13	-35.59	Pass	V
5788.31	147	102	-43.05	-13	-30.05	Pass	V
6576.29	147	123	-47.76	-13	-34.76	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.
1245.18	154	277	-61.29	-13	-48.29	Pass	H
1669.65	148	350	-47.29	-13	-34.29	Pass	H
3790.56	151	71	-50.70	-13	-37.70	Pass	H
5920.40	155	136	-47.09	-13	-34.09	Pass	H
6507.98	146	100	-45.54	-13	-32.54	Pass	H
8084.32	152	216	-43.75	-13	-30.75	Pass	H
1162.54	147	326	-52.27	-13	-39.27	Pass	V
1392.88	150	213	-53.29	-13	-40.29	Pass	V
3522.47	151	182	-50.64	-13	-37.64	Pass	V
3871.95	154	124	-48.76	-13	-35.76	Pass	V
5950.37	147	232	-47.65	-13	-34.65	Pass	V
6612.33	146	120	-47.27	-13	-34.27	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.
1298.48	155	149	-56.58	-13	-41.45	Pass	H
1743.19	149	168	-47.39	-13	-37.85	Pass	H
3806.93	150	190	-44.86	-13	-35.2	Pass	H
6015.86	150	321	-45.97	-13	-30.39	Pass	H
6585.31	154	296	-46.69	-13	-32.24	Pass	H
7966.46	151	138	-43.85	-13	-30.22	Pass	H
1177.19	152	18	-60.53	-13	-44.9	Pass	V
1438.98	148	263	-57.17	-13	-43.63	Pass	V
3460.75	154	55	-50.88	-13	-35.94	Pass	V
3893.83	148	87	-51.37	-13	-36.01	Pass	V
5730.33	155	301	-45.22	-13	-33.75	Pass	V
6556.34	155	268	-47.83	-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.
1391.99	146	131	-56.87	-13	-43.87	Pass	H
1761.80	152	173	-52.58	-13	-39.58	Pass	H
3896.67	154	181	-40.91	-13	-27.91	Pass	H
5983.24	155	208	-41.59	-13	-28.59	Pass	H
6568.79	151	297	-44.13	-13	-31.13	Pass	H
8084.19	155	11	-48.85	-13	-35.85	Pass	H
1114.12	152	323	-56.35	-13	-43.35	Pass	V
1408.69	150	338	-59.59	-13	-46.59	Pass	V
3516.31	152	163	-47.76	-13	-34.76	Pass	V
3783.73	155	166	-52.43	-13	-39.43	Pass	V
5857.64	153	1	-45.14	-13	-32.14	Pass	V
6517.44	147	56	-45.14	-13	-32.14	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 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.
1419.14	157	290	-59.59	-13	-46.59	Pass	H
1675.98	153	356	-49.03	-13	-36.03	Pass	H
3820.12	152	3	-45.24	-13	-32.24	Pass	H
5793.28	143	60	-45.67	-13	-32.67	Pass	H
6489.12	143	177	-45.35	-13	-32.35	Pass	H
8134.00	154	250	-44.47	-13	-31.47	Pass	H
1212.27	142	330	-57.07	-13	-44.07	Pass	V
1514.82	151	338	-60.04	-13	-47.04	Pass	V
3588.63	142	267	-49.73	-13	-36.73	Pass	V
3787.26	160	181	-49.85	-13	-36.85	Pass	V
5823.06	151	98	-50.11	-13	-37.11	Pass	V
6653.82	160	354	-47.00	-13	-34.00	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.
1327.65	150	161	-57.65	-13	-44.65	Pass	H
1654.97	146	142	-53.95	-13	-40.95	Pass	H
3794.96	150	357	-50.85	-13	-37.85	Pass	H
5861.72	146	144	-43.10	-13	-30.10	Pass	H
6400.97	149	17	-51.57	-13	-38.57	Pass	H
7961.62	151	3	-47.82	-13	-34.82	Pass	H
1255.86	149	224	-51.98	-13	-38.98	Pass	V
1406.99	148	298	-58.77	-13	-45.77	Pass	V
3519.41	147	223	-52.90	-13	-39.90	Pass	V
4005.51	148	292	-52.40	-13	-39.40	Pass	V
5868.01	150	327	-50.11	-13	-37.11	Pass	V
6469.63	150	63	-47.05	-13	-34.05	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.
1340.71	150	237	-56.73	-13	-43.73	Pass	H
1669.90	148	61	-52	-13	-39	Pass	H
3845.50	149	343	-45.66	-13	-32.66	Pass	H
5906.91	155	329	-40.96	-13	-27.96	Pass	H
6531.65	149	49	-42.47	-13	-29.47	Pass	H
8000.07	152	235	-44.74	-13	-31.74	Pass	H
1257.63	153	227	-56.49	-13	-43.49	Pass	V
1403.18	148	72	-56.84	-13	-43.84	Pass	V
3525.24	145	255	-52.79	-13	-39.79	Pass	V
3912.13	146	234	-48.59	-13	-35.59	Pass	V
5788.31	152	209	-43.05	-13	-30.05	Pass	V
6576.29	148	175	-47.76	-13	-34.76	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.
1382.87	150	46	-61.29	-13	-48.29	Pass	H
1771.11	146	181	-45.64	-13	-32.64	Pass	H
3969.49	154	294	-48.37	-13	-35.37	Pass	H
6017.63	153	281	-45.54	-13	-32.54	Pass	H
6552.02	148	123	-41.47	-13	-28.47	Pass	H
7945.32	154	32	-44.06	-13	-31.06	Pass	H
1251.08	148	88	-52.97	-13	-39.97	Pass	V
1366.24	153	269	-57.25	-13	-44.25	Pass	V
3585.86	151	290	-50.12	-13	-37.12	Pass	V
3841.31	148	175	-51.89	-13	-38.89	Pass	V
5946.87	152	352	-44.95	-13	-31.95	Pass	V
6597.61	150	201	-46.88	-13	-33.88	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.
1392.11	151	52	-52.67	-13	-41.45	Pass	H
1695.27	149	209	-52.33	-13	-37.85	Pass	H
3831.49	152	271	-47.67	-13	-35.2	Pass	H
6007.32	152	344	-42.49	-13	-30.39	Pass	H
6437.74	147	31	-45.07	-13	-32.24	Pass	H
8004.35	154	155	-43.73	-13	-30.22	Pass	H
1238.24	151	301	-58.59	-13	-44.9	Pass	V
1397.50	151	246	-58.63	-13	-43.63	Pass	V
3497.95	149	93	-48.42	-13	-35.94	Pass	V
3850.90	154	51	-51.87	-13	-36.01	Pass	V
5868.96	147	138	-45.26	-13	-33.75	Pass	V
6561.44	153	193	-44.46	-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.
1256.01	150	190	-56.02	-13	-43.02	Pass	H
1725.43	147	196	-45.72	-13	-32.72	Pass	H
3827.21	145	313	-46.19	-13	-33.19	Pass	H
5875.08	146	341	-45.59	-13	-32.59	Pass	H
6576.96	146	194	-43.41	-13	-30.41	Pass	H
8153.09	150	341	-48.66	-13	-35.66	Pass	H
1205.35	154	299	-53.19	-13	-40.19	Pass	V
1409.70	154	72	-55.27	-13	-42.27	Pass	V
3592.33	149	158	-49.70	-13	-36.70	Pass	V
3809.53	147	230	-48.72	-13	-35.72	Pass	V
5820.23	152	139	-49.56	-13	-36.56	Pass	V
6513.77	149	210	-43.78	-13	-30.78	Pass	V

Note:

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

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

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Band 12 23017 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1335.303	149	165	-54.355	-13	-41.36	Pass	H
1702.214	146	208	-50.300	-13	-37.30	Pass	H
3903.367	146	4	-46.207	-13	-33.21	Pass	H
5890.043	150	198	-41.414	-13	-28.41	Pass	H
6508.687	146	341	-44.922	-13	-31.92	Pass	H
8079.113	150	235	-45.543	-13	-32.54	Pass	H
1205.964	146	292	-56.933	-13	-43.93	Pass	V
1459.203	150	158	-59.043	-13	-46.04	Pass	V
3542.271	149	55	-49.761	-13	-36.76	Pass	V
3830.148	150	319	-47.918	-13	-34.92	Pass	V
5803.095	146	118	-48.196	-13	-35.20	Pass	V
6558.093	150	155	-47.723	-13	-34.72	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.
1332.938	149	165	-54.804	-13	-41.80	Pass	H
1703.706	146	208	-48.951	-13	-35.95	Pass	H
3901.084	146	4	-46.465	-13	-33.47	Pass	H
5890.720	150	198	-41.109	-13	-28.11	Pass	H
6508.545	146	341	-41.257	-13	-28.26	Pass	H
8079.158	150	235	-45.876	-13	-32.88	Pass	H
1207.011	146	292	-56.828	-13	-43.83	Pass	V
1461.441	150	158	-58.310	-13	-45.31	Pass	V
3542.062	149	55	-49.648	-13	-36.65	Pass	V
3828.867	150	319	-49.367	-13	-36.37	Pass	V
5801.530	146	118	-46.413	-13	-33.41	Pass	V
6558.733	150	155	-44.879	-13	-31.88	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.
1334.421	149	165	-56.612	-13	-43.61	Pass	H
1702.694	146	208	-49.609	-13	-36.61	Pass	H
3902.234	146	4	-43.957	-13	-30.96	Pass	H
5889.710	150	198	-42.358	-13	-29.36	Pass	H
6509.962	146	341	-42.694	-13	-29.69	Pass	H
8080.758	150	235	-43.072	-13	-30.07	Pass	H
1205.485	146	292	-53.116	-13	-40.12	Pass	V
1460.568	150	158	-57.107	-13	-44.11	Pass	V
3543.993	149	55	-51.522	-13	-38.52	Pass	V
3830.015	150	319	-48.167	-13	-35.17	Pass	V
5802.667	146	118	-48.988	-13	-35.99	Pass	V
6556.976	150	155	-47.012	-13	-34.01	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.
1332.776	149	165	-53.535	-13	-40.54	Pass	H
1703.126	146	208	-46.894	-13	-33.89	Pass	H
3901.342	146	4	-44.873	-13	-31.87	Pass	H
5888.438	150	198	-42.990	-13	-29.99	Pass	H
6509.010	146	341	-41.379	-13	-28.38	Pass	H
8080.276	150	235	-45.758	-13	-32.76	Pass	H
1206.232	146	292	-54.847	-13	-41.85	Pass	V
1460.904	150	158	-58.740	-13	-45.74	Pass	V
3544.348	149	55	-52.344	-13	-39.34	Pass	V
3830.397	150	319	-48.164	-13	-35.16	Pass	V
5800.998	146	118	-46.137	-13	-33.14	Pass	V
6556.632	150	155	-48.717	-13	-35.72	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.
1333.453	149	165	-54.619	-13	-41.62	Pass	H
1701.676	146	208	-47.836	-13	-34.84	Pass	H
3902.776	146	4	-46.004	-13	-33.00	Pass	H
5888.338	150	198	-44.752	-13	-31.75	Pass	H
6508.868	146	341	-42.210	-13	-29.21	Pass	H
8079.375	150	235	-45.027	-13	-32.03	Pass	H
1206.180	146	292	-55.243	-13	-42.24	Pass	V
1459.261	150	158	-58.462	-13	-45.46	Pass	V
3543.745	149	55	-51.084	-13	-38.08	Pass	V
3829.226	150	319	-47.946	-13	-34.95	Pass	V
5801.541	146	118	-46.677	-13	-33.68	Pass	V
6556.220	150	155	-46.643	-13	-33.64	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.
1332.903	149	165	-56.835	-13	-43.83	Pass	H
1703.622	146	208	-48.432	-13	-35.43	Pass	H
3901.250	146	4	-46.710	-13	-33.71	Pass	H
5888.303	150	198	-43.984	-13	-30.98	Pass	H
6508.684	146	341	-43.132	-13	-30.13	Pass	H
8079.723	150	235	-42.387	-13	-29.39	Pass	H
1205.076	146	292	-54.148	-13	-41.15	Pass	V
1461.315	150	158	-57.433	-13	-44.43	Pass	V
3542.783	149	55	-49.896	-13	-36.90	Pass	V
3828.374	150	319	-50.848	-13	-37.85	Pass	V
5800.902	146	118	-47.906	-13	-34.91	Pass	V
6556.199	150	155	-46.521	-13	-33.52	Pass	V

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Band 17 23755 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1197.100	142	60	-51.765	-13	-38.765	Pass	H
1542.496	152	3	-49.946	-13	-36.946	Pass	H
3888.303	146	58	-47.340	-13	-34.340	Pass	H
5752.876	146	87	-43.891	-13	-30.891	Pass	H
6335.110	152	152	-44.396	-13	-31.396	Pass	H
8045.580	151	168	-42.198	-13	-29.198	Pass	H
1272.066	148	221	-55.776	-13	-42.776	Pass	V
1454.788	150	61	-58.963	-13	-45.963	Pass	V
3552.023	151	52	-54.064	-13	-41.064	Pass	V
3849.175	144	227	-48.727	-13	-35.727	Pass	V
5921.861	159	152	-50.365	-13	-37.365	Pass	V
6640.356	149	273	-47.920	-13	-34.920	Pass	V

Band 17 23790 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1423.511	145	58	-54.833	-13	-41.833	Pass	H
1803.185	144	119	-51.643	-13	-38.643	Pass	H
3972.529	145	146	-45.508	-13	-32.508	Pass	H
5800.678	154	43	-42.907	-13	-29.907	Pass	H
6435.032	146	274	-39.568	-13	-26.568	Pass	H
7997.925	152	156	-47.314	-13	-34.314	Pass	H
1228.634	147	301	-58.480	-13	-45.480	Pass	V
1535.207	154	213	-57.664	-13	-44.664	Pass	V
3574.283	141	41	-48.287	-13	-35.287	Pass	V
3840.824	159	98	-47.691	-13	-34.691	Pass	V
5766.200	141	150	-46.287	-13	-33.287	Pass	V
6610.182	157	263	-45.160	-13	-32.160	Pass	V

Band 17 23825 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1429.533	142	133	-56.191	-13	-43.191	Pass	H
1740.224	150	192	-49.691	-13	-36.691	Pass	H
3870.140	147	289	-44.591	-13	-31.591	Pass	H
5848.376	148	315	-41.347	-13	-28.347	Pass	H
6514.483	145	42	-41.838	-13	-28.838	Pass	H
8139.824	152	213	-41.957	-13	-28.957	Pass	H
1260.819	151	250	-51.473	-13	-38.473	Pass	V
1387.209	147	50	-59.074	-13	-46.074	Pass	V
3603.054	150	92	-52.053	-13	-39.053	Pass	V
3887.595	152	201	-46.443	-13	-33.443	Pass	V
5708.324	159	127	-48.927	-13	-35.927	Pass	V
6652.829	144	278	-48.742	-13	-35.742	Pass	V

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Band 17 23755 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1387.845	144	349	-53.343	-13	-40.343	Pass	H
1606.049	155	77	-47.386	-13	-34.386	Pass	H
3953.456	151	152	-46.683	-13	-33.683	Pass	H
5810.042	148	146	-45.420	-13	-32.420	Pass	H
6431.871	151	148	-39.739	-13	-26.739	Pass	H
8128.545	156	348	-45.014	-13	-32.014	Pass	H
1180.943	149	187	-53.227	-13	-40.227	Pass	V
1372.426	145	19	-58.903	-13	-45.903	Pass	V
3480.351	154	308	-51.111	-13	-38.111	Pass	V
3775.528	147	149	-50.415	-13	-37.415	Pass	V
5758.057	160	23	-44.612	-13	-31.612	Pass	V
6647.321	155	156	-48.013	-13	-35.013	Pass	V

Band 17 23790 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1404.239	146	325	-53.437	-13	-40.437	Pass	H
1622.188	142	35	-48.818	-13	-35.818	Pass	H
3983.770	149	158	-48.624	-13	-35.624	Pass	H
5927.670	148	312	-45.410	-13	-32.410	Pass	H
6600.188	144	94	-42.479	-13	-29.479	Pass	H
8165.227	143	359	-46.283	-13	-33.283	Pass	H
1165.702	140	266	-56.328	-13	-43.328	Pass	V
1496.553	143	290	-60.542	-13	-47.542	Pass	V
3605.055	158	324	-53.207	-13	-40.207	Pass	V
3827.547	146	83	-50.355	-13	-37.355	Pass	V
5863.328	149	88	-46.510	-13	-33.510	Pass	V
6594.738	145	44	-47.133	-13	-34.133	Pass	V

Band 17 23825 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1414.454	148	165	-58.363	-13	-45.363	Pass	H
1787.052	152	77	-51.193	-13	-38.193	Pass	H
3987.196	158	40	-45.282	-13	-32.282	Pass	H
5811.323	160	359	-44.540	-13	-31.540	Pass	H
6572.873	144	261	-45.313	-13	-32.313	Pass	H
8052.398	155	76	-41.849	-13	-28.849	Pass	H
1277.201	156	57	-54.391	-13	-41.391	Pass	V
1474.401	154	323	-58.055	-13	-45.055	Pass	V
3597.121	153	49	-51.499	-13	-38.499	Pass	V
3777.587	155	41	-48.911	-13	-35.911	Pass	V
5862.448	151	237	-48.191	-13	-35.191	Pass	V
6562.642	156	303	-45.980	-13	-32.980	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.
1236.01	147	272	-54.18	-25	-29.18	Pass	H
1664.62	151	340	-46.08	-25	-21.08	Pass	H
3811.66	154	325	-47.74	-25	-22.74	Pass	H
5822.63	150	32	-42.07	-25	-17.07	Pass	H
6556.91	152	74	-44.42	-25	-19.42	Pass	H
8067.87	149	291	-46.86	-25	-21.86	Pass	H
1264.34	154	176	-56.17	-25	-31.17	Pass	V
1497.94	152	194	-56.99	-25	-31.99	Pass	V
3626.51	145	207	-49.03	-25	-24.03	Pass	V
3868.72	153	306	-50.51	-25	-25.51	Pass	V
5731.20	147	134	-42.89	-25	-17.89	Pass	V
6461.36	147	219	-46.81	-25	-21.81	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.
1365.32	146	262	-57.03	-25	-32.03	Pass	H
1659.03	152	79	-48.26	-25	-23.26	Pass	H
3842.20	147	26	-49.16	-25	-24.16	Pass	H
5829.87	148	29	-39.33	-25	-14.33	Pass	H
6460.49	151	4	-44.08	-25	-19.08	Pass	H
8010.98	154	328	-41.77	-25	-16.77	Pass	H
1187.16	152	60	-58.16	-25	-33.16	Pass	V
1478.72	150	289	-56.50	-25	-31.50	Pass	V
3452.67	154	86	-51.62	-25	-26.62	Pass	V
3784.37	145	107	-51.41	-25	-26.41	Pass	V
5788.98	147	278	-47.03	-25	-22.03	Pass	V
6526.78	150	130	-44.90	-25	-19.90	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.
1342.62	150	292	-58.22	-25	-33.22	Pass	H
1747.08	146	232	-47.23	-25	-22.23	Pass	H
3891.55	145	95	-46.65	-25	-21.65	Pass	H
5947.04	154	123	-42.14	-25	-17.14	Pass	H
6587.33	149	274	-47.30	-25	-22.30	Pass	H
8102.32	153	123	-45.94	-25	-20.94	Pass	H
1291.66	146	193	-52.63	-25	-27.63	Pass	V
1524.52	151	76	-54.66	-25	-29.66	Pass	V
3460.74	153	27	-50.97	-25	-25.97	Pass	V
3915.11	150	96	-52.44	-25	-27.44	Pass	V
5755.36	148	206	-47.66	-25	-22.66	Pass	V
6617.65	154	233	-47.33	-25	-22.33	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.
1402.48	149	90	-55.93	-25	-30.93	Pass	H
1673.61	154	63	-47.78	-25	-22.78	Pass	H
3816.73	151	211	-46.57	-25	-21.57	Pass	H
5818.86	149	140	-45.74	-25	-20.74	Pass	H
6518.00	153	260	-43.72	-25	-18.72	Pass	H
8151.48	147	241	-43.53	-25	-18.53	Pass	H
1253.97	146	297	-56.01	-25	-31.01	Pass	V
1527.57	153	11	-57.96	-25	-32.96	Pass	V
3601.30	146	157	-52.75	-25	-27.75	Pass	V
3814.20	149	116	-52.34	-25	-27.34	Pass	V
5718.27	150	12	-48.79	-25	-23.79	Pass	V
6458.92	148	233	-44.52	-25	-19.52	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.
1372.28	155	252	-55.56	-25	-30.56	Pass	H
1795.36	146	144	-47.56	-25	-22.56	Pass	H
3839.30	147	213	-40.82	-25	-15.82	Pass	H
5846.17	151	339	-38.29	-25	-13.29	Pass	H
6529.43	147	336	-46.13	-25	-21.13	Pass	H
8050.79	146	56	-44.48	-25	-19.48	Pass	H
1302.13	145	169	-52.08	-25	-27.08	Pass	V
1547.49	149	77	-57.94	-25	-32.94	Pass	V
3597.50	147	206	-50.30	-25	-25.30	Pass	V
3779.54	153	271	-50.49	-25	-25.49	Pass	V
5835.67	155	296	-46.60	-25	-21.60	Pass	V
6462.57	155	357	-45.47	-25	-20.47	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.
1394.27	154	352	-57.65	-25	-32.65	Pass	H
1706.82	148	115	-44.76	-25	-19.76	Pass	H
3957.34	151	264	-46.77	-25	-21.77	Pass	H
5816.07	155	66	-39.31	-25	-14.31	Pass	H
6522.24	146	258	-44.80	-25	-19.80	Pass	H
8156.87	153	42	-41.22	-25	-16.22	Pass	H
1214.79	149	172	-54.29	-25	-29.29	Pass	V
1465.45	153	199	-59.68	-25	-34.68	Pass	V
3620.31	152	359	-53.16	-25	-28.16	Pass	V
3903.39	154	61	-51.52	-25	-26.52	Pass	V
5752.80	149	266	-49.00	-25	-24.00	Pass	V
6584.40	148	68	-47.44	-25	-22.44	Pass	V

Note:

5) 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.

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.

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 4.02V

Please refer to Appendix F: Frequency Stability

Test result: Pass

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