FCC Test Report
FCC ID: 2BDS8-EONON

Applicant:	SunBoBoDigital Co.Ltd
Address:	Unit 3306, 33/F New Trend Centre,704 Prince Edward Road East,Kowloon, Hong Kong
Manufacturer:	SunBoBoDigital Co.Ltd
Address:	Unit 3306, 33/F New Trend Centre,704 Prince Edward Road East,Kowloon, Hong Kong
EUT:	Car Media Player
Trade Mark:	EONON
Model Number:	E90A12S E20S, E39A12, E39A12S, E46A12, E46A12S, E46A12S-6G, E90A12, E90A12S-6G, GMA12, GMA12S, GMA12S-6G, GMA12S2-U, GMA12S-6G, M3BKA12, M3BKA12S, M3BKA12S-6G, M3BLA12, M3BLA12S, M3BLA12S-6G, MIN SE Plus, MIN T, MIN T Plus, MIN TYT, P3, P4, P5, S1, S6, Q01SE, Q02SE, Q03PRO, Q03SE, Q04PRO, Q04SE, Q05SE, Q49PRO, Q49SE, Q50PRO, Q50SE, Q51PRO, Q51SE, Q53PRO, Q53SE, Q63PRO, Q63SE, Q65PRO, Q65SE, Q67PRO, Q67SE, Q80Plus, Q80PRO, Q80SE, TYTA12, TYTA12S, TYTA12S-6G, UA12 Plus, UA12S Plus, UA12S Plus-6G, UA12T, UA12T Plus, UA12TS, UA12TS-6G, UA12TS Plus, UA12TS Plus-6G, VWA12, VWA12S, VWA12S-6G, X20, X20 Plus, X3, X3 Plus, X3T, X3U, X3U Plus, X4
Date of Receipt:	Nov. 06, 2023
Test Date:	Nov. 06, 2023 - Nov. 24, 2023
Date of Report:	Nov. 24, 2023
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China
Applicable Standards:	FCC CFR Title 47 Part22 Subpart H FCC CFR Title 47 Part24 Subpart E FCC CFR Title 47 Part27 Subpart E ANSI/ TIA/ EIA-603-E-2016 FCC KDB 971168 D01 Power Meas License Digital Systems v03r01 ANSI C63.26:2015
Test Result:	Pass
Report Number:	DL-20231128048E

Prepared (Test Engineer):	Alisa Song
Reviewer (Supervisor):	Jack Bu
Approved (Manager):	Jade Yang

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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1. TEST SUMMARY

FCC Part 24 Subpart E & Part 2			
Standard(s) Section	**Test Item**	**Judgment**	**Remark**
2.1046 24.232(c)	Equivalent Isotropic Radiated Power	PASS	------
2.1049	Occupied Bandwidth	PASS	------
2.1051 24.238(a)	Conducted Spurious Emissions	PASS	------
2.1053 24.238(a)	Radiated Spurious Emissions	PASS	------
24.238(a)	Band Edge Measurements	PASS	------
24.232(d)	Peak To Average Ratio	PASS	------
2.1055 24.235	Frequency Stability	PASS	------

FCC Part 22 Subpart H & Part 2			
Standard(s) Section	**Test Item**	**Judgment**	**Remark**
2.1046 22.913(a)(5)	Effective Radiated Power	PASS	------
2.1049	Occupied Bandwidth	PASS	------
2.1051 22.917(a)	Conducted Spurious Emissions	PASS	------
2.1053 22.917(a)	Radiated Spurious Emissions	PASS	------
22.917(a)	Band Edge Measurements	PASS	------
-	Peak To Average Ratio	PASS	Record Only
2.1055 22.355	Frequency Stability	PASS	------

FCC Part 27 Subpart L, M, N, H, F & Part 2			
Standard(s) Section	**Test Item**	**Judgment**	**Remark**
2.1046	Output Power	PASS	------
27.50(d)(4) 27.50(c)(10) 27.50(b)(10) 27.50(h)(2)	Equivalent Isotropic Radiated Power & Equivalent Radiated Power	PASS	------
2.1049	Occupied Bandwidth	PASS	------
2.1051 27.53(h) 27.53(g) 27.53(c)(2)(f) 27.53(m)(4)&(m)(6)	Conducted Spurious Emissions	PASS	------
2.1053 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	PASS	------
2.1051 27.53(h) 27.53(g) 27.53(c)(2)(f) 27.53(m)(4)&(m)(6)	Band Edge Measurements	PASS	------
-	Peak To Average Ratio	PASS	Record Only
2.1055 27.54	Frequency Stability	PASS	------

*: The module has been certified, the FCC ID is AMOSC138NA, and the conducted part test data is referenced in the report (report number: BTL-FCCP-2-2111C042).

2. GENERAL PRODUCT INFORMATION

2.1. Description of Device (EUT)

Product Name:	Car Media Player
Trademark	EONON
Model No.:	E90A12S E20S, E39A12, E39A12S, E46A12, E46A12S, E46A12S-6G, E90A12, E90A12S-6G, GMA12, GMA12S, GMA12S-6G, GMA12S2-U, GMA12S-6G, M3BKA12, M3BKA12S, M3BKA12S-6G, M3BLA12, M3BLA12S, M3BLA12S-6G, MIN SE Plus, MIN T, MIN T Plus, MIN TYT, P3, P4, P5, S1, S6, Q01SE, Q02SE, Q03PRO, Q03SE, Q04PRO, Q04SE, Q05SE, Q49PRO, Q49SE, Q50PRO, Q50SE, Q51PRO, Q51SE, Q53PRO, Q53SE, Q63PRO, Q63SE, Q65PRO, Q65SE, Q67PRO, Q67SE, Q80Plus, Q80PRO, Q80SE, TYTA12, TYTA12S, TYTA12S-6G, UA12 Plus, UA12S Plus, UA12S Plus-6G, UA12T, UA12T Plus, UA12TS, UA12TS-6G, UA12TS Plus, UA12TS Plus-6G, VWA12, VWA12S, VWA12S-6G, X20, X20 Plus, X3, X3 Plus, X3T, X3U, X3U Plus, X4
Model Difference	The product's different for model number and appearance color.
Operation Frequency:	LTE Band 2: Tx: 1850.00 - 1910.00MHz; Rx: 1930.00 - 1990.00MHz LTE Band 4: Tx: 1710.00 - 1755.00MHz; Rx: 2110.00 - 2155.00MHz LTE Band 5: Tx: 824.00 - 849.00MHz; Rx: 869.00 - 894.00MHz LTE Band 7: Tx: 2500.00 -2570.00MHz; Rx: 2620.00 - 2690.00MHz LTE Band 12: Tx: 699.00 -716.00MHz; Rx:729.00 - 746.00MHz LTE Band 13: Tx: 777.00 -787.00MHz; Rx:746.00 - 756.00MHz
Modulation technology:	LTE Mode with QPSK,16QAM
Antenna Type:	External Antenna
Antenna gain:	LTE Band 2: 1dBi LTE Band 4:1dBi LTE Band 5: 0.5dBi LTE Band 7: 1dBi LTE Band 12: 0.5dBi LTE Band 13: 0.5dBi
Power supply:	DC 12V
LTE Category	4
Hardware Version	V1.1
Software Version	V3.17

Note:

1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.The EUT's all information provided by client.

2.2. Product Function

Refer to Technical Construction Form and User Manual.

2.3. Independent Operation Modes

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes		
Band	Radiated	
LTE Band 2	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%	
LTE Band 4	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%	
LTE Band 5	Bandwidth:(MHz)1.4/3/5/10MHz Modulation: QPSK/16QAM RB:1/50%/100%	
LTE Band7	Bandwidth:(MHz) 5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%	
LTE Band12	Bandwidth:(MHz) 1.4/3/5/10MHz Modulation: QPSK/16QAM RB:1/50%/100%	
LTE Band13	Bandwidth:(MHz) 5/10MHz Modulation: QPSK/16QAM RB:1/50%/100%	

Test Channel(MHz)			
Band	Low	Middle	High
LTE Band 2	1850.7	1880	1909.3
LTE Band 4	1710.7	1732.5	1754.3
LTE Band 5	824.7	836.5	848.3
LTE Band 7	2502.5	2535	2567.6
LTE Band 12	699.7	708,6	715.3
LTE Band 13	779.5	782.5	784.5

Note1: for LTE mode, if the bandwidth is different, the test frequency is changed.

3. TEST SITES

3.1. Test Facilities

Site Description

Name of Firm : Shenzhen DL Testing Technology Co., Ltd.

Site Location : 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

FCC Test Firm Registration Number: 854456
Designation Number: CN1307
IC Registered No.: 27485
CAB ID.: CN0118

3.2. Measurement Uncertainty

The reported uncertainty of measurement **y** ± **U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

3.3. List of Test and Measurement Instruments

3.3.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
843 Shielded Room	ChengYu	843 Room	843	Sep. 20, 2022	Sep. 19, 2025
EMI Receiver	R&S	ESR	101421	Nov. 04, 2023	Nov. 03, 2024
LISN	R&S	ENV216	102417	Nov. 04, 2023	Nov. 03, 2024
843 Cable 1#	ChengYu	CE Cable	001	Nov. 04, 2023	Nov. 03, 2024
843 Cable 1#	FUJIKURA	843C1#	001	Nov. 04, 2023	Nov. 03, 2024

3.3.2. For radiated test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 04, 2023	Nov. 03, 2024
Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 04, 2023	Nov. 03, 2024
Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 04, 2023	Nov. 03, 2024
Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 04, 2023	Nov. 03, 2024
Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 04, 2023	Nov. 03, 2024
Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 04, 2023	Nov. 03, 2024
Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 04, 2023	Nov. 03, 2024
Amplifier(18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 04, 2023	Nov. 03, 2024
Loop Antenna(9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 04, 2023	Nov. 03, 2024
RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 04, 2023	Nov. 03, 2024
RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 04, 2023	Nov. 03, 2024
Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 04, 2023	Nov. 03, 2024
Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 04, 2023	Nov. 03, 2024
Signal Analyzer	Agilent	N9020A	MY55370280	Nov. 04, 2023	Nov. 03, 2024
Test Receiver	R&S	ESU 40	100376	Nov. 04, 2023	Nov. 03, 2024
D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 04, 2023	Nov. 03, 2024
Signal Amplifier	DAZE	ZN3380B	11235	Nov. 04, 2023	Nov. 03, 2024
High Pass filter	KANGMAI	WHKX1.0/1.5G-10SS	40	Nov. 04, 2023	Nov. 03, 2024
Filter	COM-MW	ZBSF-C836.5-25-X	BCTC042	Nov. 04, 2023	Nov. 03, 2024
Filter	COM-MW	ZBSF-C1747.5-75-X2	BCTC045	Nov. 04, 2023	Nov. 03, 2024
Filter	COM-MW	ZBSF-C1880-60-X2	BCTC047	Nov. 04, 2023	Nov. 03, 2024
Splitter	Agilent	11435B	1125162	Nov. 04, 2023	Nov. 03, 2024
RF CONDUCTED TEST					
System Simulator	Agilent	E5515C	GB43130252	Nov. 04, 2023	Nov. 03, 2024
Spectrum Analyzer	Agilent	N9020A	MY45108040	Nov. 04, 2023	Nov. 03, 2024
DC Power Supply	LongWei	PS-305D	010965682	Nov. 04, 2023	Nov. 03, 2024
Constant temperature and humidity box	GF	GTH-800-40-2P	MAA9906-012	Nov. 04, 2023	Nov. 03, 2024
Universal radio communication tester	R&S	CMW500	115295	Nov. 04, 2023	Nov. 03, 2024

4. TEST SET-UP

4.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

4.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators

EUT

4.3. Test Environment:

Ambient conditions in the test laboratory:

Items	Actual
Temperature (℃)	21~23
Humidity (%RH)	50~65

5. EMISSION TEST RESULTS

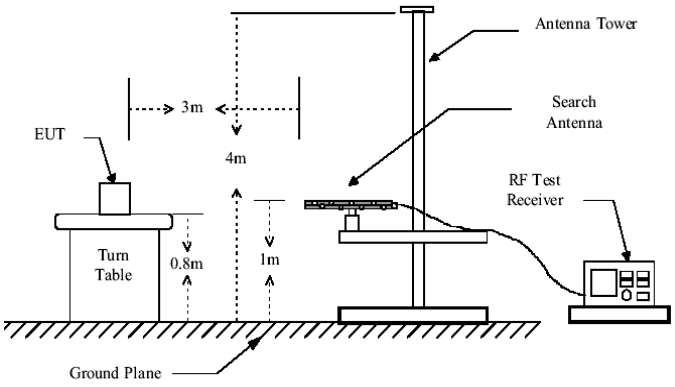
5.1. Transmitter Radiated Power (EIRP/ERP)

5.1.1. Limit

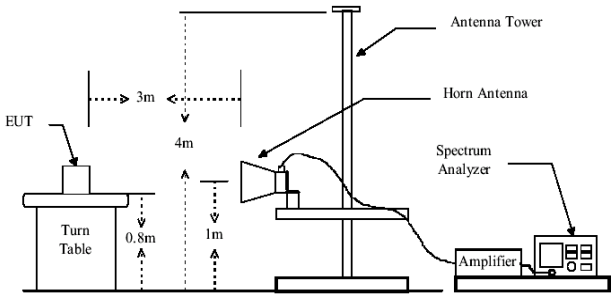
According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, FCC section 27.50 the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.
FCC 47 CFR Part 27.50(d)(4):
Fixed, 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
FCC 47 CFR Part 27.50(c)(10):
Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP
FCC 47 CFR Part 27.50(h)(2):
Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0watts transmitter output power.

5.1.2. Test Setup

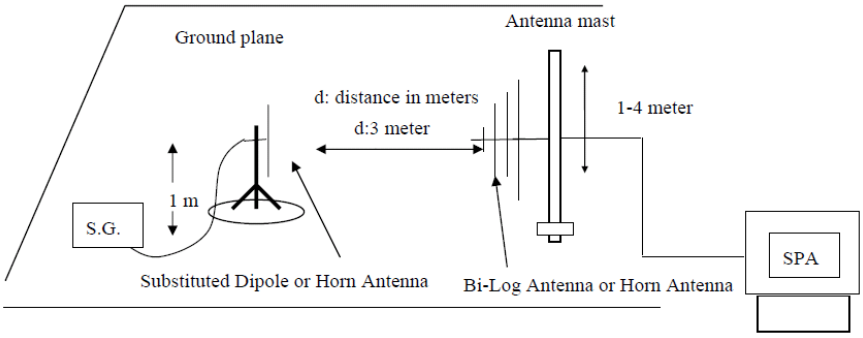
Below 1GHz



Above 1GHz



Substituted method:



5.1.3. Measurement Procedure

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. all test in Full-Anechoic Chamber.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Faortor (dB) – Cable Loss (dB)-2.15

EIRP = S.G. output (dBm) + Antenna Faortor (dB) – Cable Loss (dB)

5.1.4. Test Result

Pass, the table and plot please see annex.

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 2 1.4MHz QPSK	Lowest	V	5.25	19.35	2.54	22.06	33.00	Pass
		H	5.37	19.35	2.54	22.18		
	Middle	V	5.52	19.51	2.62	22.41	33.00	Pass
		H	5.63	19.51	2.62	22.52		
	Highest	V	5.52	19.96	2.69	22.79	33.00	Pass
		H	5.14	19.96	2.69	22.41		
LTE BAND 2 3MHz QPSK	Lowest	V	5.48	19.35	2.54	22.29	33.00	Pass
		H	5.59	19.35	2.54	22.40		
	Middle	V	5.85	19.51	2.62	22.74	33.00	Pass
		H	5.41	19.51	2.62	22.30		
	Highest	V	5.68	19.96	2.69	22.95	33.00	Pass
		H	5.86	19.96	2.69	23.13		
LTE BAND 2 5MHz QPSK	Lowest	V	5.25	19.35	2.54	22.06	33.00	Pass
		H	5.77	19.35	2.54	22.58		
	Middle	V	5.59	19.51	2.62	22.48	33.00	Pass
		H	5.34	19.51	2.62	22.23		
	Highest	V	5.38	19.96	2.69	22.65	33.00	Pass
		H	5.63	19.96	2.69	22.90		
LTE BAND 2 10MHz QPSK	Lowest	V	5.58	19.35	2.54	22.39	33.00	Pass
		H	5.85	19.35	2.54	22.66		
	Middle	V	5.86	19.51	2.62	22.75	33.00	Pass
		H	5.38	19.51	2.62	22.27		
	Highest	V	5.74	19.96	2.69	23.01	33.00	Pass
		H	5.63	19.96	2.69	22.90		
LTE BAND 2 15MHz QPSK	Lowest	V	5.48	19.35	2.54	22.29	33.00	Pass
		H	5.59	19.35	2.54	22.40		
	Middle	V	5.25	19.51	2.62	22.14	33.00	Pass
		H	5.29	19.51	2.62	22.18		
	Highest	V	5.67	19.96	2.69	22.94	33.00	Pass
		H	5.63	19.96	2.69	22.90		
LTE BAND 2 20MHz QPSK	Lowest	V	5.85	19.35	2.54	22.66	33.00	Pass
		H	5.79	19.35	2.54	22.60		
	Middle	V	5.58	19.51	2.62	22.47	33.00	Pass
		H	5.39	19.51	2.62	22.28		
	Highest	V	5.54	19.96	2.69	22.81	33.00	Pass
		H	5.78	19.96	2.69	23.05		

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 2 1.4MHz 16QAM	Lowest	V	5.63	19.35	2.54	22.44	33.00	Pass
		H	5.41	19.35	2.54	22.22		
	Middle	V	6.46	19.51	2.62	23.35	33.00	Pass
		H	5.27	19.51	2.62	22.16		
	Highest	V	5.65	19.96	2.69	22.92	33.00	Pass
		H	5.63	19.96	2.69	22.90		
LTE BAND 2 3MHz 16QAM	Lowest	V	5.34	19.35	2.54	22.15	33.00	Pass
		H	5.36	19.35	2.54	22.17		
	Middle	V	6.27	19.51	2.62	23.16	33.00	Pass
		H	5.15	19.51	2.62	22.04		
	Highest	V	5.66	19.96	2.69	22.93	33.00	Pass
		H	5.74	19.96	2.69	23.01		
LTE BAND 2 5MHz 16QAM	Lowest	V	5.56	19.35	2.54	22.37	33.00	Pass
		H	5.69	19.35	2.54	22.50		
	Middle	V	6.44	19.51	2.62	23.33	33.00	Pass
		H	6.18	19.51	2.62	23.07		
	Highest	V	5.32	19.96	2.69	22.59	33.00	Pass
		H	5.64	19.96	2.69	22.91		
LTE BAND 2 10MHz 16QAM	Lowest	V	5.06	19.33	2.52	21.87	33.00	Pass
		H	5.18	19.33	2.52	21.99		
	Middle	V	5.44	19.5	2.6	22.34	33.00	Pass
		H	5.26	19.5	2.6	22.16		
	Highest	V	5.38	19.94	2.71	22.61	33.00	Pass
		H	5.63	19.94	2.71	22.86		
LTE BAND 2 15MHz 16QAM	Lowest	V	5.07	19.33	2.52	21.88	33.00	Pass
		H	5.36	19.33	2.52	22.17		
	Middle	V	5.47	19.5	2.6	22.37	33.00	Pass
		H	5.36	19.5	2.6	22.26		
	Highest	V	5.78	19.94	2.71	23.01	33.00	Pass
		H	5.64	19.94	2.71	22.87		
LTE BAND 2 20MHz 16QAM	Lowest	V	5.18	19.33	2.52	21.99	33.00	Pass
		H	5.26	19.33	2.52	22.07		
	Middle	V	5.58	19.5	2.6	22.48	33.00	Pass
		H	5.34	19.5	2.6	22.24		
	Highest	V	5.36	19.94	2.71	22.59	33.00	Pass
		H	5.85	19.94	2.71	23.08		

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 4 1.4MHz QPSK	Lowest	V	5.63	19.35	2.54	22.44	30.00	Pass
		H	5.85	19.35	2.54	22.66		
	Middle	V	6.64	19.51	2.62	23.53	30.00	Pass
		H	5.96	19.51	2.62	22.85		
	Highest	V	5.58	19.96	2.69	22.85	30.00	Pass
		H	5.54	19.96	2.69	22.81		
LTE BAND 4 3MHz QPSK	Lowest	V	5.29	19.35	2.54	22.10	30.00	Pass
		H	5.38	19.35	2.54	22.19		
	Middle	V	5.24	19.51	2.62	22.13	30.00	Pass
		H	5.63	19.51	2.62	22.52		
	Highest	V	5.36	19.96	2.69	22.63	30.00	Pass
		H	5.48	19.96	2.69	22.75		
LTE BAND 4 5MHz QPSK	Lowest	V	5.44	19.35	2.54	22.25	30.00	Pass
		H	5.25	19.35	2.54	22.06		
	Middle	V	5.48	19.51	2.62	22.37	30.00	Pass
		H	5.63	19.51	2.62	22.52		
	Highest	V	5.64	19.96	2.69	22.91	30.00	Pass
		H	5.67	19.96	2.69	22.94		
LTE BAND 4 10MHz QPSK	Lowest	V	4.92	19.33	2.52	21.73	30.00	Pass
		H	5.19	19.33	2.52	22.00		
	Middle	V	5.38	19.5	2.6	22.28	30.00	Pass
		H	5.26	19.5	2.6	22.16		
	Highest	V	5.64	19.94	2.71	22.87	30.00	Pass
		H	5.36	19.94	2.71	22.59		
LTE BAND 4 15MHz QPSK	Lowest	V	4.95	19.33	2.52	21.76	30.00	Pass
		H	5.18	19.33	2.52	21.99		
	Middle	V	5.36	19.5	2.6	22.26	30.00	Pass
		H	5.74	19.5	2.6	22.64		
	Highest	V	5.69	19.94	2.71	22.92	30.00	Pass
		H	5.53	19.94	2.71	22.76		
LTE BAND 4 20MHz QPSK	Lowest	V	4.52	19.33	2.52	21.33	30.00	Pass
		H	5.19	19.33	2.52	22.00		
	Middle	V	5.34	19.5	2.6	22.24	30.00	Pass
		H	5.26	19.5	2.6	22.16		
	Highest	V	5.68	19.94	2.71	22.91	30.00	Pass
		H	5.54	19.94	2.71	22.77		

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 4 1.4MHz 16QAM	Lowest	V	5.46	19.35	2.54	22.27	30.00	Pass
		H	5.85	19.35	2.54	22.66		
	Middle	V	6.36	19.51	2.62	23.25	30.00	Pass
		H	5.28	19.51	2.62	22.17		
	Highest	V	5.65	19.96	2.69	22.92	30.00	Pass
		H	5.66	19.96	2.69	22.93		
LTE BAND 4 3MHz 16QAM	Lowest	V	5.38	19.35	2.54	22.19	30.00	Pass
		H	5.25	19.35	2.54	22.06		
	Middle	V	5.26	19.51	2.62	22.15	30.00	Pass
		H	5.18	19.51	2.62	22.07		
	Highest	V	5.54	19.96	2.69	22.81	30.00	Pass
		H	5.62	19.96	2.69	22.89		
LTE BAND 4 5MHz 16QAM	Lowest	V	5.48	19.35	2.54	22.29	30.00	Pass
		H	5.39	19.35	2.54	22.20		
	Middle	V	5.38	19.51	2.62	22.27	30.00	Pass
		H	5.24	19.51	2.62	22.13		
	Highest	V	5.19	19.96	2.69	22.46	30.00	Pass
		H	5.36	19.96	2.69	22.63		
LTE BAND 4 10MHz 16QAM	Lowest	V	5.07	19.33	2.52	21.88	30.00	Pass
		H	5.41	19.33	2.52	22.22		
	Middle	V	5.96	19.5	2.6	22.86	30.00	Pass
		H	5.24	19.5	2.6	22.14		
	Highest	V	5.78	19.94	2.71	23.01	30.00	Pass
		H	5.66	19.94	2.71	22.89		
LTE BAND 4 15MHz 16QAM	Lowest	V	5.85	19.33	2.52	22.66	30.00	Pass
		H	5.41	19.33	2.52	22.22		
	Middle	V	5.49	19.5	2.6	22.39	30.00	Pass
		H	5.23	19.5	2.6	22.13		
	Highest	V	5.85	19.94	2.71	23.08	30.00	Pass
		H	5.41	19.94	2.71	22.64		
LTE BAND 4 20MHz 16QAM	Lowest	V	5.09	19.33	2.52	21.90	30.00	Pass
		H	5.15	19.33	2.52	21.96		
	Middle	V	5.96	19.5	2.6	22.86	30.00	Pass
		H	5.29	19.5	2.6	22.19		
	Highest	V	5.38	19.94	2.71	22.61	30.00	Pass
		H	5.41	19.94	2.71	22.64		

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Result
LTE BAND 5 1.4MHz QPSK	Lowest	V	6.12	15.68	1.65	18.00	38.45	Pass
		H	8.08	15.68	1.65	19.96		
	Middle	V	7.56	15.7	1.67	19.44	38.45	Pass
		H	7.55	15.7	1.67	19.43		
	Highest	V	8.36	15.7	1.71	20.20	38.45	Pass
		H	6.94	15.7	1.71	18.78		
LTE BAND 5 3MHz QPSK	Lowest	V	7.88	15.68	1.65	19.76	38.45	Pass
		H	7.85	15.68	1.65	19.73		
	Middle	V	7.33	15.7	1.67	19.21	38.45	Pass
		H	7.27	15.7	1.67	19.15		
	Highest	V	7.52	15.7	1.71	19.36	38.45	Pass
		H	7.86	15.7	1.71	19.70		
LTE BAND 5 5MHz QPSK	Lowest	V	7.98	15.68	1.65	19.86	38.45	Pass
		H	7.94	15.68	1.65	19.82		
	Middle	V	7.36	15.7	1.67	19.24	38.45	Pass
		H	7.38	15.7	1.67	19.26		
	Highest	V	7.14	15.7	1.71	18.98	38.45	Pass
		H	7.96	15.7	1.71	19.80		
LTE BAND 5 10MHz QPSK	Lowest	V	7.87	15.68	1.65	19.75	38.45	Pass
		H	7.41	15.68	1.65	19.29		
	Middle	V	7.33	15.7	1.67	19.21	38.45	Pass
		H	6.28	15.7	1.67	18.16		
	Highest	V	8.06	15.7	1.71	19.90	38.45	Pass
		H	7.87	15.7	1.71	19.71		
LTE BAND 5 1.4MHz 16QAM	Lowest	V	7.09	15.68	1.65	18.97	38.45	Pass
		H	8.07	15.68	1.65	19.95		
	Middle	V	7.55	15.7	1.67	19.43	38.45	Pass
		H	7.43	15.7	1.67	19.31		
	Highest	V	7.85	15.7	1.71	19.69	38.45	Pass
		H	7.06	15.7	1.71	18.90		
LTE BAND 5 3MHz 16QAM	Lowest	V	7.87	15.68	1.65	19.75	38.45	Pass
		H	7.52	15.68	1.65	19.40		
	Middle	V	7.63	15.7	1.67	19.51	38.45	Pass
		H	7.25	15.7	1.67	19.13		
	Highest	V	7.03	15.7	1.71	18.87	38.45	Pass
		H	7.88	15.7	1.71	19.72		
LTE BAND 5 5MHz 16QAM	Lowest	V	7.96	15.68	1.65	19.84	38.45	Pass
		H	7.97	15.68	1.65	19.85		
	Middle	V	7.36	15.7	1.67	19.24	38.45	Pass
		H	7.58	15.7	1.67	19.46		
	Highest	V	7.19	15.7	1.71	19.03	38.45	Pass
		H	7.94	15.7	1.71	19.78		
LTE BAND 5 10MHz 16QAM	Lowest	V	7.81	15.68	1.65	19.69	38.45	Pass
		H	7.99	15.68	1.65	19.87		
	Middle	V	7.48	15.7	1.67	19.36	38.45	Pass
		H	7.36	15.7	1.67	19.24		
	Highest	V	8.07	15.7	1.71	19.91	38.45	Pass
		H	7.93	15.7	1.71	19.77		

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 7 5MHz QPSK	Lowest	V	5.58	19.35	2.54	22.39	33.00	Pass
		H	5.36	19.35	2.54	22.17		
	Middle	V	6.44	19.51	2.62	23.33	33.00	Pass
		H	5.23	19.51	2.62	22.12		
	Highest	V	5.78	19.96	2.69	23.05	33.00	Pass
		H	5.62	19.96	2.69	22.89		
LTE BAND 7 10MHz QPSK	Lowest	V	5.34	19.35	2.54	22.15	33.00	Pass
		H	5.36	19.35	2.54	22.17		
	Middle	V	5.52	19.51	2.62	22.41	33.00	Pass
		H	5.14	19.51	2.62	22.03		
	Highest	V	5.66	19.96	2.69	22.93	33.00	Pass
		H	5.74	19.96	2.69	23.01		
LTE BAND 7 15MHz QPSK	Lowest	V	5.36	19.35	2.54	22.17	33.00	Pass
		H	5.54	19.35	2.54	22.35		
	Middle	V	5.48	19.51	2.62	22.37	33.00	Pass
		H	5.26	19.51	2.62	22.15		
	Highest	V	5.14	19.96	2.69	22.41	33.00	Pass
		H	5.63	19.96	2.69	22.9		
LTE BAND 7 20MHz QPSK	Lowest	V	5.58	19.35	2.54	22.39	33.00	Pass
		H	5.25	19.35	2.54	22.06		
	Middle	V	5.44	19.51	2.62	22.33	33.00	Pass
		H	5.36	19.51	2.62	22.25		
	Highest	V	5.78	19.96	2.69	23.05	33.00	Pass
		H	5.66	19.96	2.69	22.93		
LTE BAND 7 5MHz 16QAM	Lowest	V	5.37	19.35	2.54	22.18	33.00	Pass
		H	5.44	19.35	2.54	22.25		
	Middle	V	5.26	19.51	2.62	22.15	33.00	Pass
		H	5.12	19.51	2.62	22.01		
	Highest	V	5.54	19.96	2.69	22.81	33.00	Pass
		H	5.78	19.96	2.69	23.05		
LTE BAND 7 10MHz 16QAM	Lowest	V	5.45	19.35	2.54	22.26	33.00	Pass
		H	5.53	19.35	2.54	22.34		
	Middle	V	5.34	19.51	2.62	22.23	33.00	Pass
		H	5.63	19.51	2.62	22.52		
	Highest	V	5.67	19.96	2.69	22.94	33.00	Pass
		H	5.65	19.96	2.69	22.92		
LTE BAND 7 15MHz 16QAM	Lowest	V	5.33	19.35	2.54	22.14	33.00	Pass
		H	5.44	19.35	2.54	22.25		
	Middle	V	5.28	19.51	2.62	22.17	33.00	Pass
		H	5.16	19.51	2.62	22.05		
	Highest	V	5.57	19.96	2.69	22.84	33.00	Pass
		H	5.52	19.96	2.69	22.79		
LTE BAND 7 20MHz 16QAM	Lowest	V	5.43	19.35	2.54	22.24	33.00	Pass
		H	5.85	19.35	2.54	22.66		
	Middle	V	5.36	19.51	2.62	22.25	33.00	Pass
		H	5.41	19.51	2.62	22.3		
	Highest	V	5.63	19.96	2.69	22.9	33.00	Pass
		H	5.67	19.96	2.69	22.94		

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Result
LTE BAND 12 1.4MHz QPSK	Lowest	V	5.63	19.35	2.54	20.29	34.77	Pass
		H	5.25	19.35	2.54	19.91		
	Middle	V	6.36	19.51	2.62	21.10	34.77	Pass
		H	5.85	19.51	2.62	20.59		
	Highest	V	5.14	19.96	2.69	20.26	34.77	Pass
		H	5.36	19.96	2.69	20.48		
LTE BAND 12 3MHz QPSK	Lowest	V	5.85	19.35	2.54	20.51	34.77	Pass
		H	5.25	19.35	2.54	19.91		
	Middle	V	5.63	19.51	2.62	20.37	34.77	Pass
		H	5.15	19.51	2.62	19.89		
	Highest	V	5.56	19.96	2.69	20.68	34.77	Pass
		H	5.57	19.96	2.69	20.69		
LTE BAND 12 5MHz QPSK	Lowest	V	5.46	19.35	2.54	20.12	34.77	Pass
		H	5.54	19.35	2.54	20.20		
	Middle	V	5.69	19.51	2.62	20.43	34.77	Pass
		H	5.25	19.51	2.62	19.99		
	Highest	V	5.63	19.96	2.69	20.75	34.77	Pass
		H	5.41	19.96	2.69	20.53		
LTE BAND 12 10MHz QPSK	Lowest	V	5.46	19.35	2.54	20.12	34.77	Pass
		H	5.58	19.35	2.54	20.24		
	Middle	V	5.46	19.51	2.62	20.20	34.77	Pass
		H	5.28	19.51	2.62	20.02		
	Highest	V	5.64	19.96	2.69	20.76	34.77	Pass
		H	5.66	19.96	2.69	20.78		
LTE BAND 12 1.4MHz 16QAM	Lowest	V	5.37	19.35	2.54	20.03	34.77	Pass
		H	5.46	19.35	2.54	20.12		
	Middle	V	5.28	19.51	2.62	20.02	34.77	Pass
		H	5.63	19.51	2.62	20.37		
	Highest	V	5.41	19.96	2.69	20.53	34.77	Pass
		H	5.36	19.96	2.69	20.48		
LTE BAND 12 3MHz 16QAM	Lowest	V	5.48	19.35	2.54	20.14	34.77	Pass
		H	5.36	19.35	2.54	20.02		
	Middle	V	5.41	19.51	2.62	20.15	34.77	Pass
		H	5.28	19.51	2.62	20.02		
	Highest	V	5.66	19.96	2.69	20.78	34.77	Pass
		H	5.58	19.96	2.69	20.70		
LTE BAND 12 5MHz 16QAM	Lowest	V	5.36	19.35	2.54	20.02	34.77	Pass
		H	5.48	19.35	2.54	20.14		
	Middle	V	5.25	19.51	2.62	19.99	34.77	Pass
		H	5.19	19.51	2.62	19.93		
	Highest	V	5.54	19.96	2.69	20.66	34.77	Pass
		H	5.74	19.96	2.69	20.86		
LTE BAND 12 10MHz 16QAM	Lowest	V	5.46	19.35	2.54	20.12	34.77	Pass
		H	5.58	19.35	2.54	20.24		
	Middle	V	5.36	19.51	2.62	20.10	34.77	Pass
		H	5.28	19.51	2.62	20.02		
	Highest	V	5.66	19.96	2.69	20.78	34.77	Pass
		H	5.58	19.96	2.69	20.70		

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Result
LTE BAND 13 5MHz QPSK	Lowest	V	5.46	19.35	2.54	20.12	34.77	Pass
		H	5.58	19.35	2.54	20.24		
	Middle	V	6.14	19.51	2.62	20.88	34.77	Pass
		H	5.26	19.51	2.62	20.00		
	Highest	V	5.68	19.96	2.69	20.80	34.77	Pass
		H	5.66	19.96	2.69	20.78		
LTE BAND 13 10MHz QPSK	Lowest	V	5.37	19.35	2.54	20.03	34.77	Pass
		H	5.46	19.35	2.54	20.12		
	Middle	V	5.28	19.51	2.62	20.02	34.77	Pass
		H	5.63	19.51	2.62	20.37		
	Highest	V	5.57	19.96	2.69	20.69	34.77	Pass
		H	5.63	19.96	2.69	20.75		
LTE BAND 13 5MHz 16QAM	Lowest	V	5.68	19.96	2.69	20.80	34.77	Pass
		H	5.26	19.35	2.54	19.92		
	Middle	V	5.47	19.35	2.54	20.13	34.77	Pass
		H	5.24	19.51	2.62	19.98		
	Highest	V	5.19	19.51	2.62	19.93	34.77	Pass
		H	5.57	19.96	2.69	20.69		
LTE BAND 13 10MHz 16QAM	Lowest	V	5.13	19.96	2.69	20.25	34.77	Pass
		H	5.44	19.35	2.54	20.10		
	Middle	V	5.19	19.35	2.54	19.85	34.77	Pass
		H	5.35	19.51	2.62	20.09		
	Highest	V	5.33	19.51	2.62	20.07	34.77	Pass
		H	5.67	19.96	2.69	20.79		
		H	5.25	19.96	2.69	20.37		

5.2. Radiated Out of Band Emissions

5.2.1. Limit

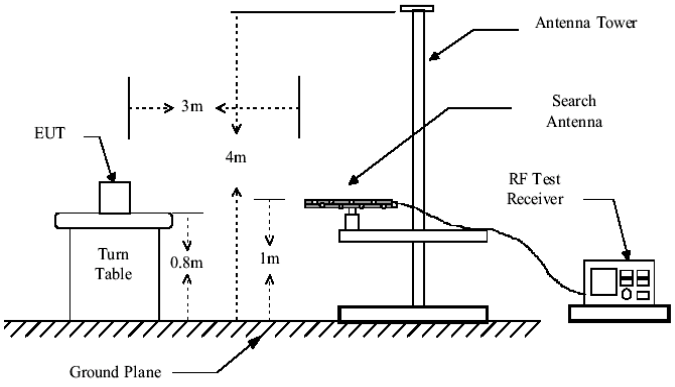
According to FCC section 22.917(a) and section 24.238(a), 27.53(g) 27.53(h), 27.53(c) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power.

(P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

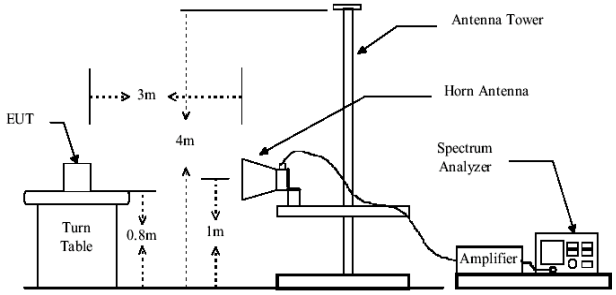
The spurious emission with frequency band 1900 according to FCC section 2.1057.

5.2.2. Test Setup

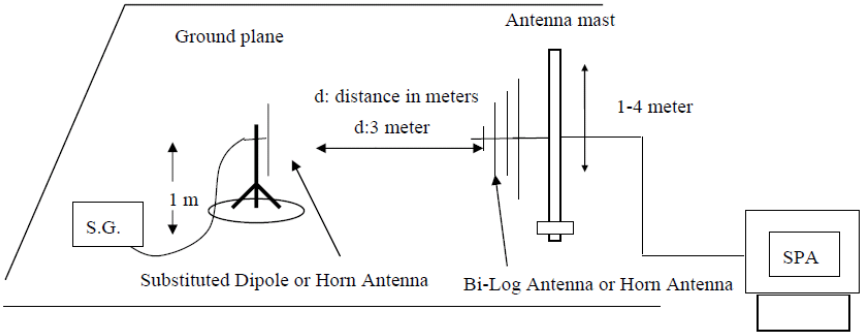
Below 1GHz



Above 1GHz



Substituted method:



5.2.3. Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. all test in Full-Anechoic Chamber.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

EIRP (Level)= S.G. output (dBm) + Antenna Gain(dBi) – Cable Loss (dB)

Note: Measurement Uncertainty: ±3.6 dB.

The data show only the worst results, Both horizontal and vertical polarization have been tested, and the report only reflects the worst vertical mode.

5.2.4. Test Result

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 1.4MHz Lowest	87.15	Vertical	-75.11	3.35	0.38	-72.14	-13	PASS
	3701.40	Vertical	-45.93	7.76	3.75	-41.92		
	5552.10	Vertical	-47.12	9.84	4.94	-42.22		
	7402.80	Vertical	-39.56	10.21	5.32	-34.67		
	9253.50	Vertical	-42.34	11.36	6.02	-37.00		
	11104.20	Vertical	-44.42	14.52	6.68	-36.58		
LTE BAND 2 1.4MHz Middle	88.27	Vertical	-75.16	3.35	0.38	-72.19	-13	PASS
	3760.00	Vertical	-47.22	7.76	3.75	-43.21		
	5640.00	Vertical	-46.81	9.84	4.94	-41.91		
	7520.00	Vertical	-42.53	10.21	5.32	-37.64		
	9400.00	Vertical	-41.98	11.36	6.02	-36.64		
	11280.00	Vertical	-45.83	14.52	6.68	-37.99		
LTE BAND 2 1.4MHz Highest	88.21	Vertical	-75.02	3.35	0.38	-72.05	-13	PASS
	3819.60	Vertical	-46.86	7.79	3.53	-42.60		
	5729.40	Vertical	-41.31	9.88	5.02	-36.45		
	7639.20	Vertical	-37.58	10.25	5.54	-32.87		
	9549.00	Vertical	-44.43	11.38	6.16	-39.21		
	11458.80	Vertical	-46.86	14.56	6.72	-39.02		
LTE BAND 2 3MHz Lowest	87.33	Vertical	-75.18	3.35	0.38	-72.21	-13	PASS
	3700.40	Vertical	-45.93	7.76	3.75	-41.92		
	5550.60	Vertical	-46.35	9.84	4.94	-41.45		
	7400.80	Vertical	-39.23	10.21	5.32	-34.34		
	9251.00	Vertical	-42.65	11.36	6.02	-37.31		
	11101.20	Vertical	-44.16	14.52	6.68	-36.32		
LTE BAND 2 3MHz Middle	88.32	Vertical	-74.33	3.35	0.38	-71.36	-13	PASS
	3760.00	Vertical	-47.05	7.76	3.75	-43.04		
	5640.00	Vertical	-46.61	9.84	4.94	-41.71		
	7520.00	Vertical	-42.26	10.21	5.32	-37.37		
	9400.00	Vertical	-41.75	11.36	6.02	-36.41		
	11280.00	Vertical	-45.66	14.52	6.68	-37.82		
LTE BAND 2 3MHz Highest	88.45	Vertical	-74.63	3.35	0.38	-71.66	-13	PASS
	3819.60	Vertical	-46.65	7.79	3.53	-42.39		
	5729.40	Vertical	-41.13	9.88	5.02	-36.27		
	7639.20	Vertical	-37.35	10.25	5.54	-32.64		
	9549.00	Vertical	-44.13	11.38	6.16	-38.91		
	11458.80	Vertical	-46.53	14.56	6.72	-38.69		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 5MHz Lowest	87.54	Vertical	-74.16	3.35	0.38	-71.19	-13	PASS
	3700.40	Vertical	-45.73	7.76	3.75	-41.72		
	5550.60	Vertical	-46.82	9.84	4.94	-41.92		
	7400.80	Vertical	-39.37	10.21	5.32	-34.48		
	9251.00	Vertical	-42.66	11.36	6.02	-37.32		
	11101.20	Vertical	-44.23	14.52	6.68	-36.39		
LTE BAND 2 5MHz Middle	88.76	Vertical	-74.73	3.35	0.38	-71.76	-13	PASS
	3760.00	Vertical	-47.05	7.76	3.75	-43.04		
	5640.00	Vertical	-46.63	9.84	4.94	-41.73		
	7520.00	Vertical	-42.25	10.21	5.32	-37.36		
	9400.00	Vertical	-41.73	11.36	6.02	-36.39		
	11280.00	Vertical	-45.64	14.52	6.68	-37.80		
LTE BAND 2 5MHz Highest	88.56	Vertical	-74.63	3.35	0.38	-71.66	-13	PASS
	3819.60	Vertical	-46.65	7.79	3.53	-42.39		
	5729.40	Vertical	-41.13	9.88	5.02	-36.27		
	7639.20	Vertical	-37.38	10.25	5.54	-32.67		
	9549.00	Vertical	-44.14	11.38	6.16	-38.92		
	11458.80	Vertical	-46.53	14.56	6.72	-38.69		
LTE BAND 2 10MHz Lowest	87.23	Vertical	-74.73	3.35	0.38	-71.76	-13	PASS
	3700.40	Vertical	-45.92	7.76	3.75	-41.91		
	5550.60	Vertical	-46.76	9.84	4.94	-41.86		
	7400.80	Vertical	-39.23	10.21	5.32	-34.34		
	9251.00	Vertical	-42.62	11.36	6.02	-37.28		
	11101.20	Vertical	-44.13	14.52	6.68	-36.29		
LTE BAND 2 10MHz Middle	88.56	Vertical	-74.75	3.35	0.38	-71.78	-13	PASS
	3760.00	Vertical	-47.06	7.76	3.75	-43.05		
	5640.00	Vertical	-46.63	9.84	4.94	-41.73		
	7520.00	Vertical	-42.34	10.21	5.32	-37.45		
	9400.00	Vertical	-41.78	11.36	6.02	-36.44		
	11280.00	Vertical	-45.63	14.52	6.68	-37.79		
LTE BAND 2 10MHz Highest	88.54	Vertical	-74.75	3.35	0.38	-71.78	-13	PASS
	3819.60	Vertical	-46.66	7.79	3.53	-42.40		
	5729.40	Vertical	-41.13	9.88	5.02	-36.27		
	7639.20	Vertical	-37.45	10.25	5.54	-32.74		
	9549.00	Vertical	-44.22	11.38	6.16	-39.00		
	11458.80	Vertical	-46.67	14.56	6.72	-38.83		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 15MHz Lowest	87.41	Vertical	-74.56	3.35	0.38	-71.59	-13	PASS
	3700.40	Vertical	-45.62	7.76	3.75	-41.61		
	5550.60	Vertical	-46.71	9.84	4.94	-41.81		
	7400.80	Vertical	-39.21	10.21	5.32	-34.32		
	9251.00	Vertical	-42.63	11.36	6.02	-37.29		
	11101.20	Vertical	-44.15	14.52	6.68	-36.31		
LTE BAND 2 15MHz Middle	88.14	Vertical	-74.53	3.35	0.38	-71.56	-13	PASS
	3760.00	Vertical	-46.95	7.76	3.75	-42.94		
	5640.00	Vertical	-46.52	9.84	4.94	-41.62		
	7520.00	Vertical	-42.26	10.21	5.32	-37.37		
	9400.00	Vertical	-41.63	11.36	6.02	-36.29		
	11280.00	Vertical	-45.57	14.52	6.68	-37.73		
LTE BAND 2 15MHz Highest	88.62	Vertical	-74.55	3.35	0.38	-71.58	-13	PASS
	3819.60	Vertical	-46.53	7.79	3.53	-42.27		
	5729.40	Vertical	-41.05	9.88	5.02	-36.19		
	7639.20	Vertical	-37.33	10.25	5.54	-32.62		
	9549.00	Vertical	-44.15	11.38	6.16	-38.93		
	11458.80	Vertical	-46.57	14.56	6.72	-38.73		
LTE BAND 2 20MHz Lowest	87.53	Vertical	-74.53	3.35	0.38	-71.56	-13	PASS
	3700.40	Vertical	-45.67	7.76	3.75	-41.66		
	5550.60	Vertical	-46.71	9.84	4.94	-41.81		
	7400.80	Vertical	-39.23	10.21	5.32	-34.34		
	9251.00	Vertical	-42.65	11.36	6.02	-37.31		
	11101.20	Vertical	-44.16	14.52	6.68	-36.32		
LTE BAND 2 20MHz Middle	88.65	Vertical	-74.53	3.35	0.38	-71.56	-13	PASS
	3760.00	Vertical	-46.93	7.76	3.75	-42.92		
	5640.00	Vertical	-46.56	9.84	4.94	-41.66		
	7520.00	Vertical	-42.36	10.21	5.32	-37.47		
	9400.00	Vertical	-41.64	11.36	6.02	-36.30		
	11280.00	Vertical	-45.53	14.52	6.68	-37.69		
LTE BAND 2 20MHz Highest	88.34	Vertical	-74.52	3.35	0.38	-71.55	-13	PASS
	3819.60	Vertical	-46.58	7.79	3.53	-42.32		
	5729.40	Vertical	-41.02	9.88	5.02	-36.16		
	7639.20	Vertical	-37.36	10.25	5.54	-32.65		
	9549.00	Vertical	-44.14	11.38	6.16	-38.92		
	11458.80	Vertical	-46.56	14.56	6.72	-38.72		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 1.4MHz Lowest	87.28	Vertical	-74.73	3.35	0.38	-71.76	-13	PASS
	3421.40	Vertical	-45.75	7.76	3.75	-41.74		
	5132.10	Vertical	-46.86	9.84	4.94	-41.96		
	6842.80	Vertical	-39.33	10.21	5.32	-34.44		
	8553.50	Vertical	-42.68	11.36	6.02	-37.34		
	10264.20	Vertical	-44.26	14.52	6.68	-36.42		
LTE BAND 4 1.4MHz Middle	88.21	Vertical	-74.73	3.35	0.38	-71.76	-13	PASS
	3465.00	Vertical	-47.04	7.76	3.75	-43.03		
	5197.50	Vertical	-46.66	9.84	4.94	-41.76		
	6930.00	Vertical	-42.23	10.21	5.32	-37.34		
	8662.50	Vertical	-41.71	11.36	6.02	-36.37		
	10395.00	Vertical	-45.64	14.52	6.68	-37.80		
LTE BAND 4 1.4MHz Highest	88.43	Vertical	-74.66	3.35	0.38	-71.69	-13	PASS
	3508.60	Vertical	-46.64	7.79	3.53	-42.38		
	5262.90	Vertical	-41.16	9.88	5.02	-36.30		
	7017.20	Vertical	-37.33	10.25	5.54	-32.62		
	8771.50	Vertical	-44.15	11.38	6.16	-38.93		
	10525.80	Vertical	-46.53	14.56	6.72	-38.69		
LTE BAND 4 3MHz Lowest	87.45	Vertical	-74.74	3.35	0.38	-71.77	-13	PASS
	3423.00	Vertical	-45.73	7.76	3.75	-41.72		
	5134.50	Vertical	-46.85	9.84	4.94	-41.95		
	6846.00	Vertical	-39.37	10.21	5.32	-34.48		
	8557.50	Vertical	-42.63	11.36	6.02	-37.29		
	10269.00	Vertical	-44.25	14.52	6.68	-36.41		
LTE BAND 4 3MHz Middle	88.21	Vertical	-74.76	3.35	0.38	-71.79	-13	PASS
	3508.60	Vertical	-47.04	7.76	3.75	-43.03		
	5262.90	Vertical	-46.66	9.84	4.94	-41.76		
	7017.20	Vertical	-42.23	10.21	5.32	-37.34		
	8771.50	Vertical	-41.74	11.36	6.02	-36.40		
	10525.80	Vertical	-45.66	14.52	6.68	-37.82		
LTE BAND 4 3MHz Highest	88.33	Vertical	-74.62	3.35	0.38	-71.65	-13	PASS
	3507.00	Vertical	-46.67	7.79	3.53	-42.41		
	5260.50	Vertical	-41.12	9.88	5.02	-36.26		
	7014.00	Vertical	-37.36	10.25	5.54	-32.65		
	8767.50	Vertical	-44.14	11.38	6.16	-38.92		
	10521.00	Vertical	-46.52	14.56	6.72	-38.68		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 5MHz Lowest	87.34	Vertical	-74.62	3.35	0.38	-71.65	-13	PASS
	3425.00	Vertical	-45.74	7.76	3.75	-41.73		
	5137.50	Vertical	-46.86	9.84	4.94	-41.96		
	6850.00	Vertical	-39.32	10.21	5.32	-34.43		
	8562.50	Vertical	-42.66	11.36	6.02	-37.32		
	10275.00	Vertical	-44.12	14.52	6.68	-36.28		
LTE BAND 4 5MHz Middle	88.24	Vertical	-74.64	3.35	0.38	-71.67	-13	PASS
	3423.00	Vertical	-47.06	7.76	3.75	-43.05		
	5134.50	Vertical	-46.61	9.84	4.94	-41.71		
	6846.00	Vertical	-42.23	10.21	5.32	-37.34		
	8557.50	Vertical	-41.65	11.36	6.02	-36.31		
	10269.00	Vertical	-45.63	14.52	6.68	-37.79		
LTE BAND 4 5MHz Highest	88.34	Vertical	-74.64	3.35	0.38	-71.67	-13	PASS
	3505.00	Vertical	-46.63	7.79	3.53	-42.37		
	5257.50	Vertical	-41.11	9.88	5.02	-36.25		
	7010.00	Vertical	-37.32	10.25	5.54	-32.61		
	8762.50	Vertical	-44.12	11.38	6.16	-38.90		
	10515.00	Vertical	-46.53	14.56	6.72	-38.69		
LTE BAND 4 10MHz Lowest	87.21	Vertical	-74.62	3.35	0.38	-71.65	-13	PASS
	3430.00	Vertical	-45.76	7.76	3.75	-41.75		
	5145.00	Vertical	-46.84	9.84	4.94	-41.94		
	6860.00	Vertical	-39.33	10.21	5.32	-34.44		
	8575.00	Vertical	-42.65	11.36	6.02	-37.31		
	10290.00	Vertical	-44.18	14.52	6.68	-36.34		
LTE BAND 4 10MHz Middle	88.41	Vertical	-74.62	3.35	0.38	-71.65	-13	PASS
	3505.00	Vertical	-47.03	7.76	3.75	-43.02		
	5257.50	Vertical	-46.64	9.84	4.94	-41.74		
	7010.00	Vertical	-42.26	10.21	5.32	-37.37		
	8762.50	Vertical	-41.63	11.36	6.02	-36.29		
	10515.00	Vertical	-45.61	14.52	6.68	-37.77		
LTE BAND 4 10MHz Highest	88.34	Vertical	-74.23	3.35	0.38	-71.26	-13	PASS
	3500.00	Vertical	-46.64	7.79	3.53	-42.38		
	5250.00	Vertical	-41.16	9.88	5.02	-36.30		
	7000.00	Vertical	-37.33	10.25	5.54	-32.62		
	8750.00	Vertical	-44.12	11.38	6.16	-38.90		
	10500.00	Vertical	-46.56	14.56	6.72	-38.72		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 15MHz Lowest	87.32	Vertical	-74.63	3.35	0.38	-71.66	-13	PASS
	3435.00	Vertical	-45.64	7.76	3.75	-41.63		
	5152.50	Vertical	-46.73	9.84	4.94	-41.83		
	6870.00	Vertical	-39.32	10.21	5.32	-34.43		
	8587.50	Vertical	-42.65	11.36	6.02	-37.31		
	10305.00	Vertical	-44.16	14.52	6.68	-36.32		
LTE BAND 4 15MHz Middle	88.32	Vertical	-74.63	3.35	0.38	-71.66	-13	PASS
	3505.00	Vertical	-46.95	7.76	3.75	-42.94		
	5257.50	Vertical	-46.53	9.84	4.94	-41.63		
	7010.00	Vertical	-42.22	10.21	5.32	-37.33		
	8762.50	Vertical	-41.64	11.36	6.02	-36.30		
	10515.00	Vertical	-45.53	14.52	6.68	-37.69		
LTE BAND 4 15MHz Highest	88.32	Vertical	-74.56	3.35	0.38	-71.59	-13	PASS
	3495.00	Vertical	-46.53	7.79	3.53	-42.27		
	5242.50	Vertical	-41.14	9.88	5.02	-36.28		
	6990.00	Vertical	-37.36	10.25	5.54	-32.65		
	8737.50	Vertical	-44.16	11.38	6.16	-38.94		
	10485.00	Vertical	-46.52	14.56	6.72	-38.68		
LTE BAND 4 20MHz Lowest	87.34	Vertical	-74.66	3.35	0.38	-71.69	-13	PASS
	3440.00	Vertical	-45.63	7.76	3.75	-41.62		
	5160.00	Vertical	-46.31	9.84	4.94	-41.41		
	6880.00	Vertical	-39.32	10.21	5.32	-34.43		
	8600.00	Vertical	-42.67	11.36	6.02	-37.33		
	10320.00	Vertical	-44.13	14.52	6.68	-36.29		
LTE BAND 4 20MHz Middle	88.45	Vertical	-74.61	3.35	0.38	-71.64	-13	PASS
	3505.00	Vertical	-46.95	7.76	3.75	-42.94		
	5257.50	Vertical	-46.52	9.84	4.94	-41.62		
	7010.00	Vertical	-42.24	10.21	5.32	-37.35		
	8762.50	Vertical	-41.63	11.36	6.02	-36.29		
	10515.00	Vertical	-45.54	14.52	6.68	-37.70		
LTE BAND 4 20MHz Highest	88.56	Vertical	-74.56	3.35	0.38	-71.59	-13	PASS
	3490.00	Vertical	-46.34	7.79	3.53	-42.08		
	5235.00	Vertical	-41.62	9.88	5.02	-36.76		
	6980.00	Vertical	-37.66	10.25	5.54	-32.95		
	8725.00	Vertical	-44.11	11.38	6.16	-38.89		
	10470.00	Vertical	-46.56	14.56	6.72	-38.72		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 5 1.4MHz Lowest	87.45	Vertical	-74.37	3.35	0.38	-71.4	-13	PASS
	3700.40	Vertical	-45.25	7.76	3.75	-41.24		
	5550.60	Vertical	-46.23	9.84	4.94	-41.33		
	7400.80	Vertical	-39.14	10.21	5.32	-34.25		
	9251.00	Vertical	-42.88	11.36	6.02	-37.54		
	11101.20	Vertical	-44.36	14.52	6.68	-36.52		
LTE BAND 5 1.4MHz Middle	88.21	Vertical	-74.98	3.35	0.38	-72.01	-13	PASS
	3760.00	Vertical	-47.13	7.76	3.75	-43.12		
	5640.00	Vertical	-46.74	9.84	4.94	-41.84		
	7520.00	Vertical	-42.48	10.21	5.32	-37.59		
	9400.00	Vertical	-41.86	11.36	6.02	-36.52		
	11280.00	Vertical	-45.71	14.52	6.68	-37.87		
LTE BAND 5 1.4MHz Highest	88.77	Vertical	-74.83	3.35	0.38	-71.86	-13	PASS
	3819.60	Vertical	-46.78	7.79	3.53	-42.52		
	5729.40	Vertical	-41.41	9.88	5.02	-36.55		
	7639.20	Vertical	-37.43	10.25	5.54	-32.72		
	9549.00	Vertical	-44.36	11.38	6.16	-39.14		
	11458.80	Vertical	-46.77	14.56	6.72	-38.93		
LTE BAND 5 3MHz Lowest	87.98	Vertical	-74.86	3.35	0.38	-71.89	-13	PASS
	3700.40	Vertical	-45.83	7.76	3.75	-41.82		
	5550.60	Vertical	-46.98	9.84	4.94	-42.08		
	7400.80	Vertical	-39.46	10.21	5.32	-34.57		
	9251.00	Vertical	-42.41	11.36	6.02	-37.07		
	11101.20	Vertical	-44.36	14.52	6.68	-36.52		
LTE BAND 5 3MHz Middle	88.78	Vertical	-75.36	3.35	0.38	-72.39	-13	PASS
	3760.00	Vertical	-47.85	7.76	3.75	-43.84		
	5640.00	Vertical	-46.84	9.84	4.94	-41.94		
	7520.00	Vertical	-42.46	10.21	5.32	-37.57		
	9400.00	Vertical	-41.87	11.36	6.02	-36.53		
	11280.00	Vertical	-45.83	14.52	6.68	-37.99		
LTE BAND 5 3MHz Highest	88.67	Vertical	-74.94	3.35	0.38	-71.97	-13	PASS
	3819.60	Vertical	-46.85	7.79	3.53	-42.59		
	5729.40	Vertical	-41.33	9.88	5.02	-36.47		
	7639.20	Vertical	-37.58	10.25	5.54	-32.87		
	9549.00	Vertical	-44.33	11.38	6.16	-39.11		
	11458.80	Vertical	-46.78	14.56	6.72	-38.94		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 5 5MHz Lowest	87.66	Vertical	-74.43	3.35	0.38	-71.46	-13	PASS
	3700.40	Vertical	-45.57	7.76	3.75	-41.56		
	5550.60	Vertical	-46.36	9.84	4.94	-41.46		
	7400.80	Vertical	-39.28	10.21	5.32	-34.39		
	9251.00	Vertical	-42.24	11.36	6.02	-36.9		
	11101.20	Vertical	-44.09	14.52	6.68	-36.25		
LTE BAND 5 5MHz Middle	88.32	Vertical	-74.44	3.35	0.38	-71.47	-13	PASS
	3760.00	Vertical	-46.83	7.76	3.75	-42.82		
	5640.00	Vertical	-46.54	9.84	4.94	-41.64		
	7520.00	Vertical	-42.18	10.21	5.32	-37.29		
	9400.00	Vertical	-41.53	11.36	6.02	-36.19		
	11280.00	Vertical	-45.44	14.52	6.68	-37.6		
LTE BAND 5 5MHz Highest	88.32	Vertical	-74.49	3.35	0.38	-71.52	-13	PASS
	3819.60	Vertical	-46.54	7.79	3.53	-42.28		
	5729.40	Vertical	-41.02	9.88	5.02	-36.16		
	7639.20	Vertical	-37.27	10.25	5.54	-32.56		
	9549.00	Vertical	-44.04	11.38	6.16	-38.82		
	11458.80	Vertical	-46.45	14.56	6.72	-38.61		
LTE BAND 5 10MHz Lowest	87.23	Vertical	-74.51	3.35	0.38	-71.54	-13	PASS
	3700.40	Vertical	-45.6	7.76	3.75	-41.59		
	5550.60	Vertical	-46.69	9.84	4.94	-41.79		
	7400.80	Vertical	-39.23	10.21	5.32	-34.34		
	9251.00	Vertical	-42.58	11.36	6.02	-37.24		
	11101.20	Vertical	-44.09	14.52	6.68	-36.25		
LTE BAND 5 10MHz Middle	88.21	Vertical	-74.58	3.35	0.38	-71.61	-13	PASS
	3760.00	Vertical	-46.93	7.76	3.75	-42.92		
	5640.00	Vertical	-46.54	9.84	4.94	-41.64		
	7520.00	Vertical	-42.28	10.21	5.32	-37.39		
	9400.00	Vertical	-41.36	11.36	6.02	-36.02		
	11280.00	Vertical	-45.55	14.52	6.68	-37.71		
LTE BAND 5 10MHz Highest	88.15	Vertical	-74.59	3.35	0.38	-71.62	-13	PASS
	3819.60	Vertical	-46.57	7.79	3.53	-42.31		
	5729.40	Vertical	-41.04	9.88	5.02	-36.18		
	7639.20	Vertical	-37.36	10.25	5.54	-32.65		
	9549.00	Vertical	-44.17	11.38	6.16	-38.95		
	11458.80	Vertical	-46.36	14.56	6.72	-38.52		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 7 5MHz Lowest	87.89	Vertical	-74.69	3.35	0.38	-71.72	-25	PASS
	5005.00	Vertical	-45.65	7.76	3.75	-41.64		
	7507.50	Vertical	-46.76	9.84	4.94	-41.86		
	10010.00	Vertical	-39.28	10.21	5.32	-34.39		
	12512.50	Vertical	-42.64	11.36	6.02	-37.3		
	15015.00	Vertical	-44.16	14.52	6.68	-36.32		
LTE BAND 7 5MHz Middle	87.87	Vertical	-74.57	3.35	0.38	-71.6	-25	PASS
	5070.00	Vertical	-46.95	7.76	3.75	-42.94		
	7605.00	Vertical	-46.55	9.84	4.94	-41.65		
	10140.00	Vertical	-42.22	10.21	5.32	-37.33		
	12675.00	Vertical	-41.64	11.36	6.02	-36.3		
	15210.00	Vertical	-45.54	14.52	6.68	-37.7		
LTE BAND 7 5MHz Highest	88.87	Vertical	-74.54	3.35	0.38	-71.57	-25	PASS
	5135.00	Vertical	-46.55	7.79	3.53	-42.29		
	7702.50	Vertical	-41.08	9.88	5.02	-36.22		
	10270.00	Vertical	-37.32	10.25	5.54	-32.61		
	12837.50	Vertical	-44.1	11.38	6.16	-38.88		
	15405.00	Vertical	-46.5	14.56	6.72	-38.66		
LTE BAND 7 10MHz Lowest	87.53	Vertical	-73.74	3.35	0.38	-70.77	-25	PASS
	5010.00	Vertical	-45.13	7.76	3.75	-41.12		
	7515.00	Vertical	-46.21	9.84	4.94	-41.31		
	10020.00	Vertical	-38.83	10.21	5.32	-33.94		
	12525.00	Vertical	-42.13	11.36	6.02	-36.79		
	15030.00	Vertical	-43.63	14.52	6.68	-35.79		
LTE BAND 7 10MHz Middle	88.23	Vertical	-74.64	3.35	0.38	-71.67	-25	PASS
	5070.00	Vertical	-46.99	7.76	3.75	-42.98		
	7605.00	Vertical	-46.53	9.84	4.94	-41.63		
	10140.00	Vertical	-42.41	10.21	5.32	-37.52		
	12675.00	Vertical	-41.63	11.36	6.02	-36.29		
	15210.00	Vertical	-45.57	14.52	6.68	-37.73		
LTE BAND 7 10MHz Highest	88.23	Vertical	-74.64	3.35	0.38	-71.67	-25	PASS
	5130.00	Vertical	-46.53	7.79	3.53	-42.27		
	7695.00	Vertical	-41.18	9.88	5.02	-36.32		
	10260.00	Vertical	-37.33	10.25	5.54	-32.62		
	12825.00	Vertical	-44.18	11.38	6.16	-38.96		
	15390.00	Vertical	-46.54	14.56	6.72	-38.7		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 7 15MHz Lowest	87.12	Vertical	-74.36	3.35	0.38	-71.39	-25	PASS
	5015.00	Vertical	-45.74	7.76	3.75	-41.73		
	7522.50	Vertical	-46.53	9.84	4.94	-41.63		
	10030.00	Vertical	-39.18	10.21	5.32	-34.29		
	12537.50	Vertical	-42.44	11.36	6.02	-37.1		
	15045.00	Vertical	-43.96	14.52	6.68	-36.12		
LTE BAND 7 15MHz Middle	88.87	Vertical	-74.37	3.35	0.38	-71.4	-25	PASS
	5070.00	Vertical	-46.72	7.76	3.75	-42.71		
	7605.00	Vertical	-46.35	9.84	4.94	-41.45		
	10140.00	Vertical	-42.09	10.21	5.32	-37.2		
	12675.00	Vertical	-41.45	11.36	6.02	-36.11		
	15210.00	Vertical	-45.32	14.52	6.68	-37.48		
LTE BAND 7 15MHz Highest	88.29	Vertical	-74.27	3.35	0.38	-71.3	-25	PASS
	5125.00	Vertical	-46.36	7.79	3.53	-42.1		
	7687.50	Vertical	-40.98	9.88	5.02	-36.12		
	10250.00	Vertical	-37.23	10.25	5.54	-32.52		
	12812.50	Vertical	-43.98	11.38	6.16	-38.76		
	15375.00	Vertical	-46.36	14.56	6.72	-38.52		
LTE BAND 7 20MHz Lowest	87.81	Vertical	-74.24	3.35	0.38	-71.27	-25	PASS
	5020.00	Vertical	-45.48	7.76	3.75	-41.47		
	7530.00	Vertical	-46.53	9.84	4.94	-41.63		
	10040.00	Vertical	-39.15	10.21	5.32	-34.26		
	12550.00	Vertical	-42.47	11.36	6.02	-37.13		
	15060.00	Vertical	-43.93	14.52	6.68	-36.09		
LTE BAND 7 20MHz Middle	88.56	Vertical	-74.44	3.35	0.38	-71.47	-25	PASS
	5070.00	Vertical	-46.74	7.76	3.75	-42.73		
	7605.00	Vertical	-46.43	9.84	4.94	-41.53		
	10140.00	Vertical	-42.14	10.21	5.32	-37.25		
	12675.00	Vertical	-41.63	11.36	6.02	-36.29		
	15210.00	Vertical	-45.48	14.52	6.68	-37.64		
LTE BAND 7 20MHz Highest	88.22	Vertical	-74.44	3.35	0.38	-71.47	-25	PASS
	5120.00	Vertical	-46.43	7.79	3.53	-42.17		
	7680.00	Vertical	-41.08	9.88	5.02	-36.22		
	10240.00	Vertical	-37.23	10.25	5.54	-32.52		
	12800.00	Vertical	-44.04	11.38	6.16	-38.82		
	15360.00	Vertical	-46.49	14.56	6.72	-38.65		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 12 1.4MHz Lowest	87.89	Vertical	-74.33	3.35	0.38	-71.36	-13	PASS
	5005.00	Vertical	-45.31	7.76	3.75	-41.30		
	7507.50	Vertical	-46.42	9.84	4.94	-41.52		
	10010.00	Vertical	-39.16	10.21	5.32	-34.27		
	12512.50	Vertical	-42.42	11.36	6.02	-37.08		
	15015.00	Vertical	-43.33	14.52	6.68	-35.49		
LTE BAND 12 1.4MHz Middle	87.87	Vertical	-74.36	3.35	0.38	-71.39	-13	PASS
	5070.00	Vertical	-46.83	7.76	3.75	-42.82		
	7605.00	Vertical	-46.44	9.84	4.94	-41.54		
	10140.00	Vertical	-42.03	10.21	5.32	-37.14		
	12675.00	Vertical	-41.52	11.36	6.02	-36.18		
	15210.00	Vertical	-45.25	14.52	6.68	-37.41		
LTE BAND 12 1.4MHz Highest	88.87	Vertical	-74.33	3.35	0.38	-71.36	-13	PASS
	5135.00	Vertical	-46.47	7.79	3.53	-42.21		
	7702.50	Vertical	-40.92	9.88	5.02	-36.06		
	10270.00	Vertical	-37.23	10.25	5.54	-32.52		
	12837.50	Vertical	-43.95	11.38	6.16	-38.73		
	15405.00	Vertical	-46.34	14.56	6.72	-38.50		
LTE BAND 12 3MHz Lowest	87.53	Vertical	-73.53	3.35	0.38	-70.56	-13	PASS
	5010.00	Vertical	-44.95	7.76	3.75	-40.94		
	7515.00	Vertical	-46.03	9.84	4.94	-41.13		
	10020.00	Vertical	-38.75	10.21	5.32	-33.86		
	12525.00	Vertical	-42.33	11.36	6.02	-36.99		
	15030.00	Vertical	-43.45	14.52	6.68	-35.61		
LTE BAND 12 3MHz Middle	88.23	Vertical	-74.43	3.35	0.38	-71.46	-13	PASS
	5070.00	Vertical	-46.88	7.76	3.75	-42.87		
	7605.00	Vertical	-46.46	9.84	4.94	-41.56		
	10140.00	Vertical	-42.14	10.21	5.32	-37.25		
	12675.00	Vertical	-41.52	11.36	6.02	-36.18		
	15210.00	Vertical	-45.47	14.52	6.68	-37.63		
LTE BAND 12 3MHz Highest	88.23	Vertical	-74.35	3.35	0.38	-71.38	-13	PASS
	5130.00	Vertical	-46.46	7.79	3.53	-42.20		
	7695.00	Vertical	-40.14	9.88	5.02	-35.28		
	10260.00	Vertical	-37.23	10.25	5.54	-32.52		
	12825.00	Vertical	-44.36	11.38	6.16	-39.14		
	15390.00	Vertical	-46.43	14.56	6.72	-38.59		

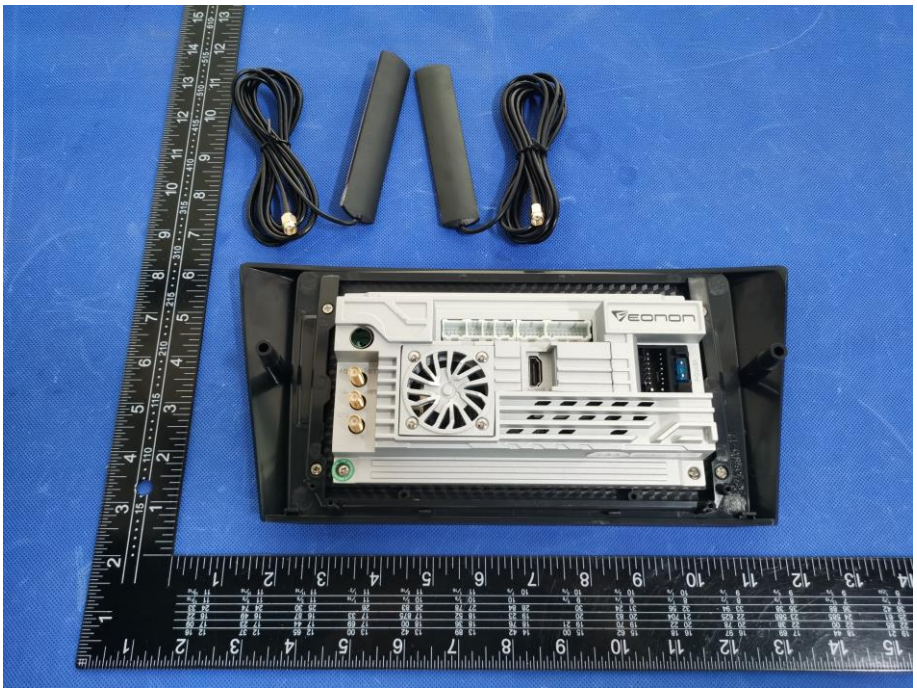
Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 12 5MHz Lowest	87.12	Vertical	-74.02	3.35	0.38	-71.05	-13	PASS
	5015.00	Vertical	-45.36	7.76	3.75	-41.35		
	7522.50	Vertical	-46.48	9.84	4.94	-41.58		
	10030.00	Vertical	-39.03	10.21	5.32	-34.14		
	12537.50	Vertical	-42.35	11.36	6.02	-37.01		
	15045.00	Vertical	-43.82	14.52	6.68	-35.98		
LTE BAND 12 5MHz Middle	88.87	Vertical	-74.04	3.35	0.38	-71.07	-13	PASS
	5070.00	Vertical	-46.66	7.76	3.75	-42.65		
	7605.00	Vertical	-46.29	9.84	4.94	-41.39		
	10140.00	Vertical	-41.84	10.21	5.32	-36.95		
	12675.00	Vertical	-41.33	11.36	6.02	-35.99		
	15210.00	Vertical	-45.22	14.52	6.68	-37.38		
LTE BAND 12 5MHz Highest	88.29	Vertical	-74.05	3.35	0.38	-71.08	-13	PASS
	5125.00	Vertical	-46.26	7.79	3.53	-42.00		
	7687.50	Vertical	-40.84	9.88	5.02	-35.98		
	10250.00	Vertical	-37.06	10.25	5.54	-32.35		
	12812.50	Vertical	-43.83	11.38	6.16	-38.61		
	15375.00	Vertical	-46.28	14.56	6.72	-38.44		
LTE BAND 12 10MHz Lowest	87.81	Vertical	-74.03	3.35	0.38	-71.06	-13	PASS
	5020.00	Vertical	-45.32	7.76	3.75	-41.31		
	7530.00	Vertical	-46.48	9.84	4.94	-41.58		
	10040.00	Vertical	-39.66	10.21	5.32	-34.77		
	12550.00	Vertical	-42.33	11.36	6.02	-36.99		
	15060.00	Vertical	-43.84	14.52	6.68	-36.00		
LTE BAND 12 10MHz Middle	88.56	Vertical	-74.22	3.35	0.38	-71.25	-13	PASS
	5070.00	Vertical	-46.75	7.76	3.75	-42.74		
	7605.00	Vertical	-46.32	9.84	4.94	-41.42		
	10140.00	Vertical	-42.03	10.21	5.32	-37.14		
	12675.00	Vertical	-41.44	11.36	6.02	-36.10		
	15210.00	Vertical	-45.33	14.52	6.68	-37.49		
LTE BAND 12 10MHz Highest	88.22	Vertical	-74.34	3.35	0.38	-71.37	-13	PASS
	5120.00	Vertical	-46.33	7.79	3.53	-42.07		
	7680.00	Vertical	-40.45	9.88	5.02	-35.59		
	10240.00	Vertical	-37.12	10.25	5.54	-32.41		
	12800.00	Vertical	-43.96	11.38	6.16	-38.74		
	15360.00	Vertical	-46.31	14.56	6.72	-38.47		

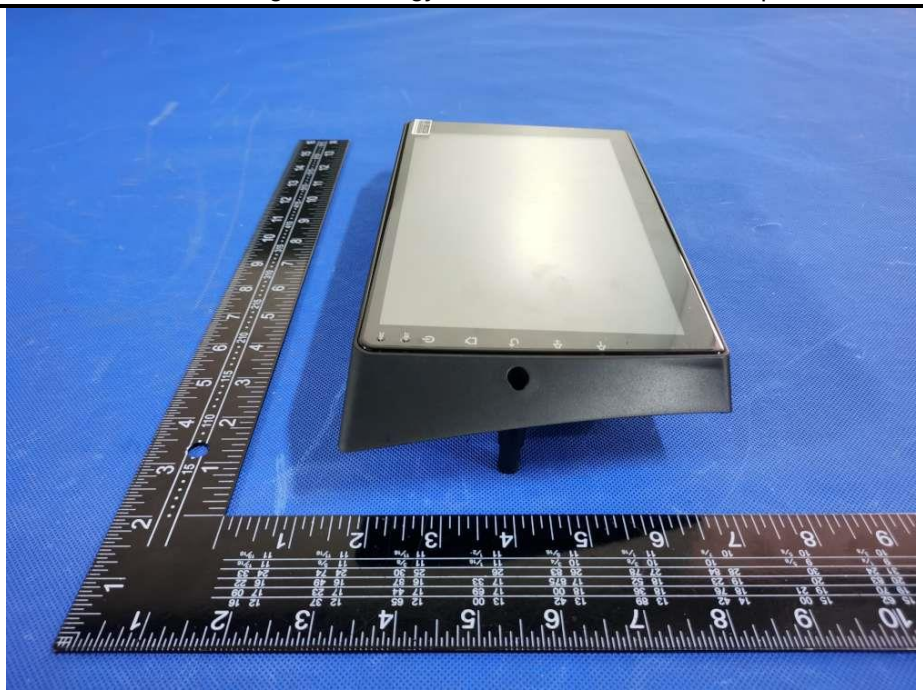
Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Level (dBm)		
LTE BAND 13 5MHz Lowest	87.65	Vertical	-74.43	3.35	0.38	-71.46	-13	PASS
	5015.00	Vertical	-45.55	7.76	3.75	-41.54		
	7522.50	Vertical	-46.63	9.84	4.94	-41.73		
	10030.00	Vertical	-39.25	10.21	5.32	-34.36		
	12537.50	Vertical	-42.52	11.36	6.02	-37.18		
	15045.00	Vertical	-44.04	14.52	6.68	-36.2		
LTE BAND 13 5MHz Middle	88.58	Vertical	-74.43	3.35	0.38	-71.46	-13	PASS
	5070.00	Vertical	-46.32	7.76	3.75	-42.31		
	7605.00	Vertical	-46.14	9.84	4.94	-41.24		
	10140.00	Vertical	-42.16	10.21	5.32	-37.27		
	12675.00	Vertical	-41.53	11.36	6.02	-36.19		
	15210.00	Vertical	-45.42	14.52	6.68	-37.58		
LTE BAND 13 5MHz Highest	88.83	Vertical	-74.43	3.35	0.38	-71.46	-13	PASS
	5125.00	Vertical	-46.14	7.79	3.53	-41.88		
	7687.50	Vertical	-41.02	9.88	5.02	-36.16		
	10250.00	Vertical	-37.23	10.25	5.54	-32.52		
	12812.50	Vertical	-44.04	11.38	6.16	-38.82		
	15375.00	Vertical	-46.43	14.56	6.72	-38.59		
LTE BAND 13 10MHz Lowest	87.36	Vertical	-74.44	3.35	0.38	-71.47	-13	PASS
	5020.00	Vertical	-46.85	7.76	3.75	-42.84		
	7530.00	Vertical	-46.46	9.84	4.94	-41.56		
	10040.00	Vertical	-42.13	10.21	5.32	-37.24		
	12550.00	Vertical	-41.55	11.36	6.02	-36.21		
	15060.00	Vertical	-45.43	14.52	6.68	-37.59		
LTE BAND 13 10MHz Middle	88.76	Vertical	-74.43	3.35	0.38	-71.46	-13	PASS
	5070.00	Vertical	-45.55	7.76	3.75	-41.54		
	7605.00	Vertical	-46.63	9.84	4.94	-41.73		
	10140.00	Vertical	-39.25	10.21	5.32	-34.36		
	12675.00	Vertical	-42.52	11.36	6.02	-37.18		
	15210.00	Vertical	-44.04	14.52	6.68	-36.2		
LTE BAND 13 10MHz Highest	88.97	Vertical	-74.43	3.35	0.38	-71.46	-13	PASS
	5120.00	Vertical	-46.32	7.76	3.75	-42.31		
	7680.00	Vertical	-46.14	9.84	4.94	-41.24		
	10240.00	Vertical	-42.16	10.21	5.32	-37.27		
	12800.00	Vertical	-41.53	11.36	6.02	-36.19		
	15360.00	Vertical	-45.42	14.52	6.68	-37.58		

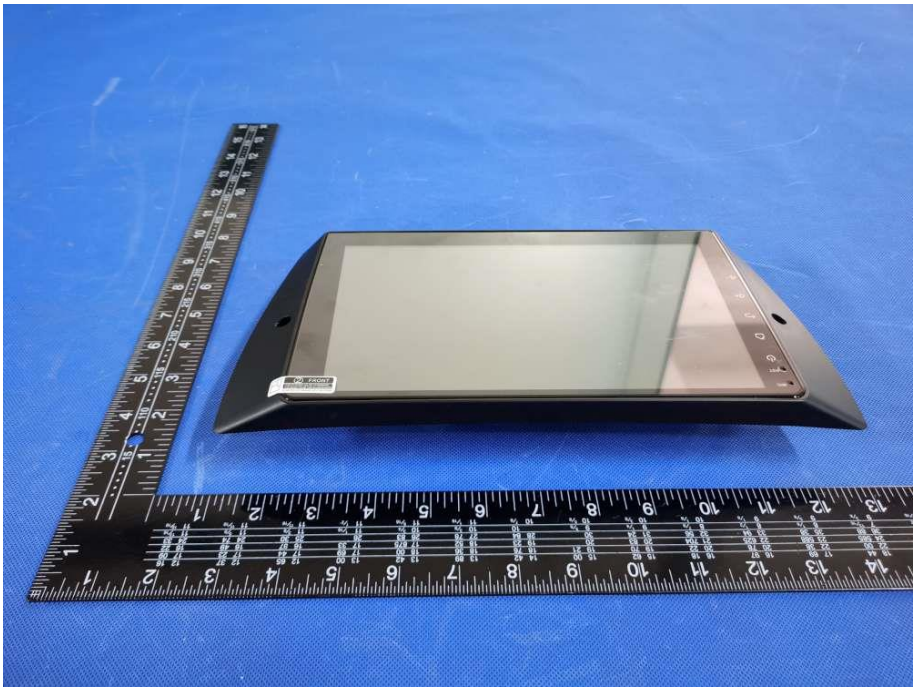
6. PHOTOGRAPHS OF TEST SET-UP

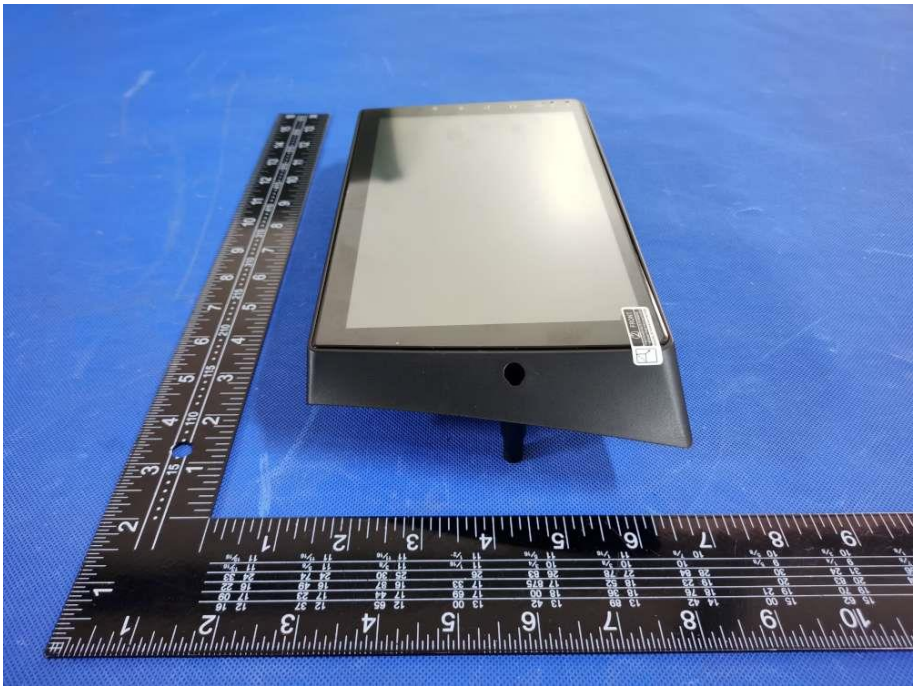
Please see setup photo.

7. PHOTOGRAPHS OF THE EUT







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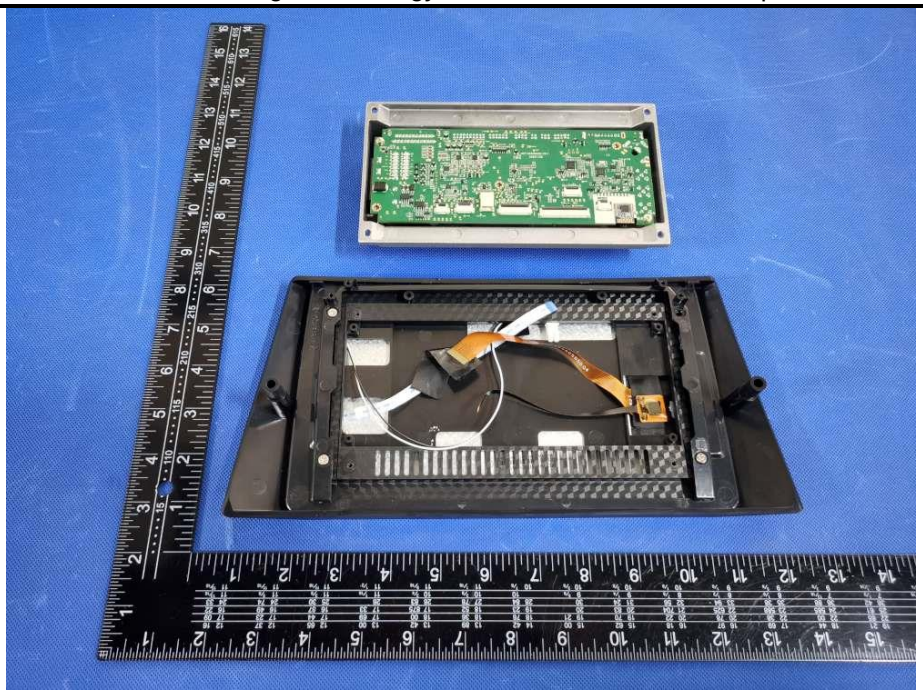

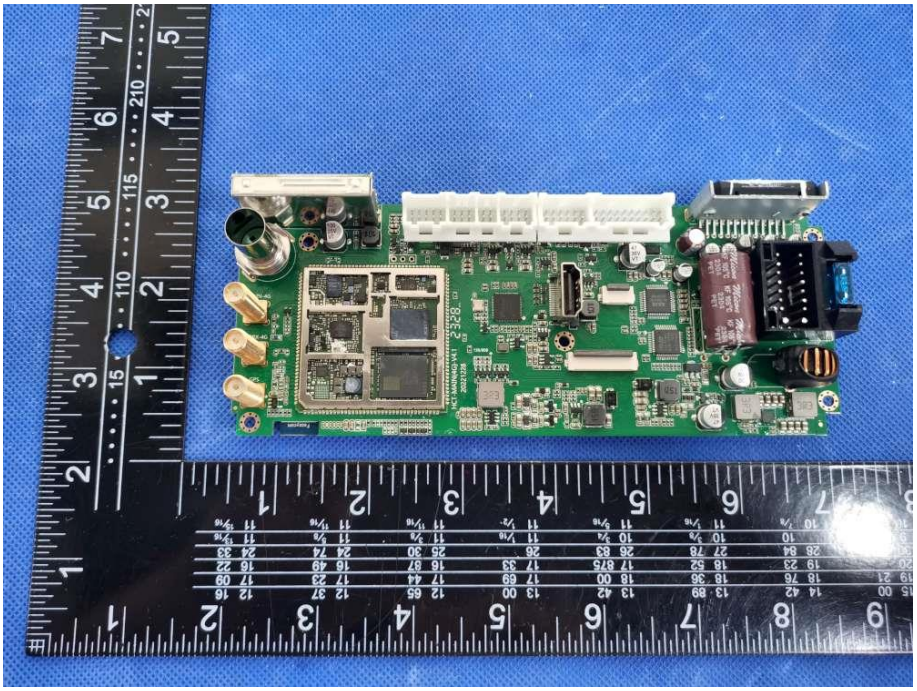

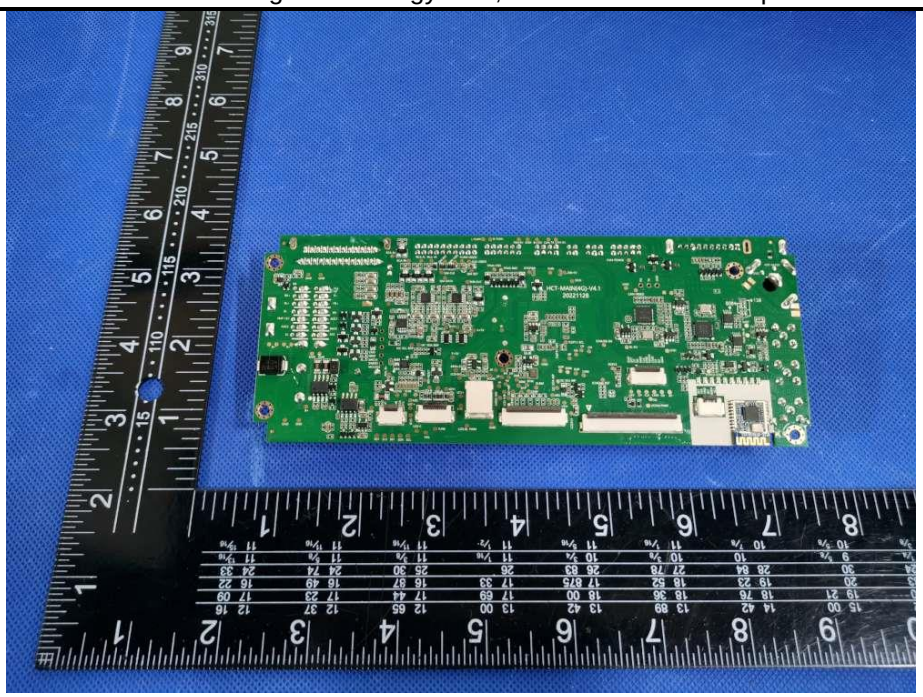

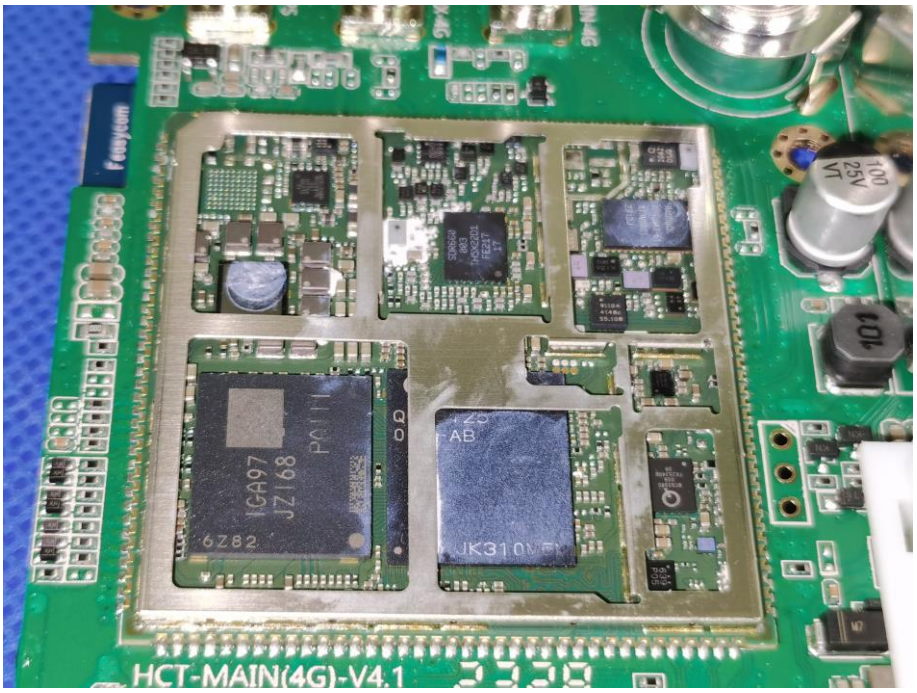
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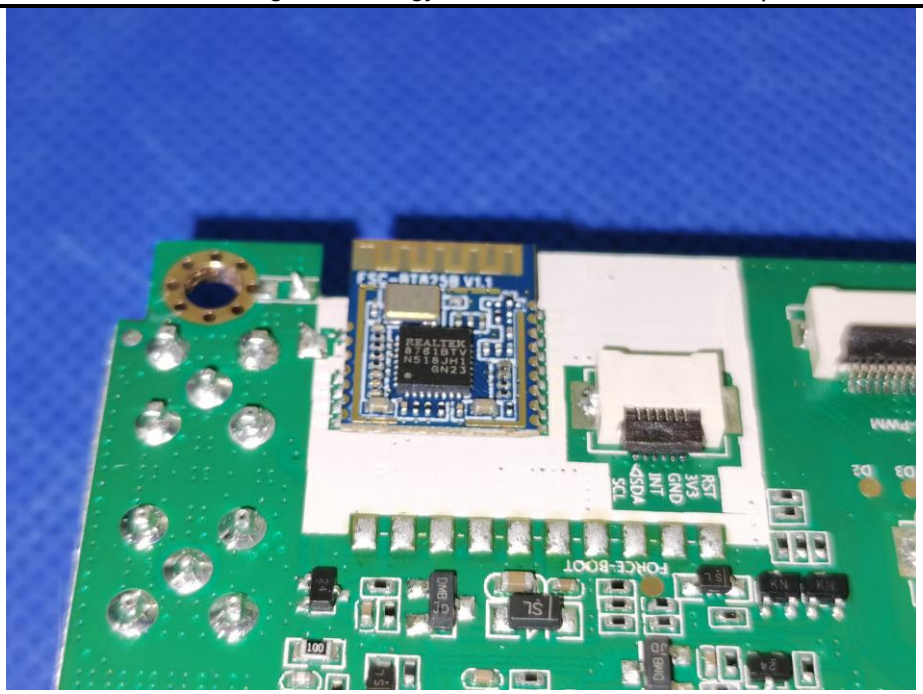

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