



FCC Test Report

FCC ID: 2AADK-V5

Applicant: Shenzhen Yuwei Information And Technology Development Co., Ltd.

Address: Room 703A-01, Floor 7, Building 2, Meilin Duoli Industrial Zone, Beihuan Road, Meifeng Community, Meilin Street, Futian District, Shenzhen

Manufacturer: Shenzhen Yuwei Information And Technology Development Co., Ltd.

Address: Room 703A-01, Floor 7, Building 2, Meilin Duoli Industrial Zone, Beihuan Road, Meifeng Community, Meilin Street, Futian District, Shenzhen

EUT: Intelligent Video Terminal

Trade Mark: N/A

Model Number: V5
V5N, V5P, V6, V5Q, V5S, V5 Lite

Date of Receipt: Apr. 28, 2023

Test Date: Apr. 28, 2023 - May. 26, 2023

Date of Report: May. 26, 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-D-2010
FCC KDB 971168 D01 Power Meas. License Digital Systems v02v02
ANSI C63.26:2015

Test Result: Pass

Report Number: DL-20230526020E

Prepared (Test Engineer): Pxing Huang

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**

Test Items	Test Requirement	Result
Conducted RF Output Power	2.1046	PASS
Peak to Average Ratio	2.1055, 22.355 24.235, 27.54	PASS
99% & -26 dB Occupied Bandwidth	2.1049, 22.917 24.238,	PASS
Frequency Stability	2.1055, 22.355 24.235, 27.54	PASS
Conducted Out of Band Emissions	2.1051, 2.1057 22.917, 24.238 27.53(h) / 27.53(m)	PASS
Band Edge	2.1051, 2.1057 22.917, 24.238 27.53(h) / 27.53(m)	PASS
Transmitter Radiated Power (EIPR/ERP)	22.913, 24.232 27.50(d)(4)/27.50(h)(2)	PASS
Radiated Out of Band Emissions	2.1053, 2.1057 22.917, 24.238 27.53(h) / 27.53(m)	PASS



2. GENERAL PRODUCT INFORMATION

2.1. Description of Device (EUT)

Product Name:	Intelligent Video Terminal
Trademark	N/A
Model No.:	V5 V5N, V5P, V6, V5Q, V5S, V5 Lite
Test Model:	V5
Model Difference	The product's different for model number and appearance color.
Operation Frequency:	GSM 850: Tx: 824.20 - 848.80MHz; Rx: 869.20 - 893.80MHz GSM 900: Tx: 880.00 - 915.00MHz; Rx: 925.00 - 960.00MHz GSM 1800: Tx: 1710.00-1785.00MHz; Rx: 1805.00 - 1880.00MHz GSM1900: Tx: 1850.20 - 1909.80MHz; Rx: 1930.20 - 1989.80MHz WCDMA Band 1: Tx: 1920.00 - 1980.00MHz; Rx: 2110.00 - 2170.00MHz WCDMA Band 2: Tx: 1850.00 - 1910.00MHz; Rx: 1930.00 - 1990.00MHz WCDMA Band 4: Tx: 1712.40 – 1752.60MHz; Rx: 2110.00 - 2115.00MHz WCDMA Band 5: Tx: 824.00 - 849.00MHz; Rx: 869.00 - 894.00MHz WCDMA Band 8: Tx: 880.00 - 915.00MHz; Rx: 925.00 - 960.00MHz LTE Band 1: Tx: 1920.00 - 1980.00MHz; Rx: 2110.00 - 2170.00MHz LTE Band 2: Tx: 1850.00 - 1910.00MHz; Rx: 1930.00 - 1990.00MHz LTE Band 3: Tx: 1710.00 - 1785.00MHz; Rx: 1805.00 - 1880.00MHz 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 8: Tx: 880.00 -915.00MHz; Rx:925.00 - 960.00MHz LTE Band 28: Tx: 703.00 -748.00MHz; Rx:758.00 - 803.00MHz LTE Band 40: Tx: 2300.00 -2400.00MHz; Rx: 2300.00 -2400.00MHz LTE Band 66: Tx: 1710.00 - 1780.00MHz; Rx: 2110.00 - 2200.00MHz
Modulation technology:	GSM Mode with GMSK Modulation WCDMA Mode with BPSK Modulation



	HSDPA Mode with QPSK, 16QAM Modulation HSUPA Mode with QPSK, 16QAM Modulation LTE Mode with QPSK, 16QAM
Antenna Type:	External Antenna
Antenna gain:	GSM850: 0.82dBi GSM1900: 2.79dBi WCDMA Band 2: 2.79dBi WCDMA Band 4: 2.79dBi WCDMA Band 5: 0.82dBi LTE Band 2: 2.79dBi LTE Band 4: 2.79dBi LTE Band 5: 0.82dBi LTE Band 7: 2.14dBi LTE Band 66: 2.79dBi
Power supply:	DC 12-24V 0.5A 12W
LTE Category	4
Hardware Version	HV10
Software Version	SV10

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	Conducted
GSM	GSM/GPRS/EGPRS	GSM/GPRS/EGPRS
WCDMA	RMC/ HSDPA/ HSUPA	RMC/ HSDPA/ HSUPA
LTE Band 2	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%	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%	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%	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%
LTE Band7	Bandwidth:(MHz) 5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%	Bandwidth:(MHz) 5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%
LTE Band66	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%

Test Channel(MHz)			
Band	Low	Middle	High
GSM850	824.20	836.60	848.80
GSM1900	1850.20	1880.00	1909.80
WCDMA Band 2	1852.4	1880	1907.6
WCDMA Band 4	1712.4	1732.6	1752.6
WCDMA Band 5	826.4	836.6	846.6
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 66	1710.7	1745.0	1779.0

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

2: we pretest all voltage, only the DC 24V was worst mode, and the data show in the report.



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

3.2. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



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. 05, 2022	Nov. 04, 2023
LISN	R&S	ENV216	102417	Nov. 05, 2022	Nov. 04, 2023
843 Cable 1#	ChengYu	CE Cable	001	Nov. 05, 2022	Nov. 04, 2023
843 Cable 1#	FUJIKURA	843C1#	001	Nov. 05, 2022	Nov. 04, 2023

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. 05, 2022	Nov. 04, 2023
Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 05, 2022	Nov. 04, 2023
Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 05, 2022	Nov. 04, 2023
Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 05, 2022	Nov. 04, 2023
Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 05, 2022	Nov. 04, 2023
Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 05, 2022	Nov. 04, 2023
Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 05, 2022	Nov. 04, 2023
Amplifier(18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 05, 2022	Nov. 04, 2023
Loop Antenna(9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 05, 2022	Nov. 04, 2023
RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 05, 2022	Nov. 04, 2023
RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 05, 2022	Nov. 04, 2023
Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 05, 2022	Nov. 04, 2023
Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 05, 2022	Nov. 04, 2023
Signal Analyzer	Agilent	N9020A	MY55370280	Nov. 05, 2022	Nov. 04, 2023
Test Receiver	R&S	ESU 40	100376	Nov. 05, 2022	Nov. 04, 2023
D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 05, 2022	Nov. 04, 2023
Signal Amplifier	DAZE	ZN3380B	11235	Nov. 05, 2022	Nov. 04, 2023
High Pass filter	KANGMAI	WHKX1.0/1.5G-10SS	40	Nov. 05, 2022	Nov. 04, 2023
Filter	COM-MW	ZBSF-C836.5-25-X	BCTC042	Nov. 05, 2022	Nov. 04, 2023
Filter	COM-MW	ZBSF-C1747.5-75-X2	BCTC045	Nov. 05, 2022	Nov. 04, 2023
Filter	COM-MW	ZBSF-C1880-60-X2	BCTC047	Nov. 05, 2022	Nov. 04, 2023
Splitter	Agilent	11435B	1125162	Nov. 05, 2022	Nov. 04, 2023
RF CONDUCTED TEST					
System Simulator	Agilent	E5515C	GB43130252	Nov. 05, 2022	Nov. 04, 2023
Spectrum Analyzer	Agilent	N9020A	MY45108040	Nov. 05, 2022	Nov. 04, 2023
DC Power Supply	LongWei	PS-305D	010965682	Nov. 05, 2022	Nov. 04, 2023
Constant temperature and humidity box	GF	GTH-800-40-2P	MAA9906-012	Nov. 05, 2022	Nov. 04, 2023
Universal radio communication tester	R&S	CMW500	115295	Nov. 05, 2022	Nov. 04, 2023



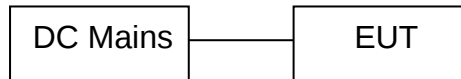
4. TEST SET-UP

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



4.3. Test Environment:

Ambient conditions in the test laboratory:

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



5. EMISSION TEST RESULTS

5.1. Conducted RF Output Power

5.1.1. Limit

According to FCC section 2.1046(a), FCC part22.913(a), FCC part22.50(a) and FCC part 24.232(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

5.1.2. Test Setup

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power.

5.1.3. Test Result

Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT.

Pass, the table and plot please see annex.

The conducted power tables are as follows:

Average Conducted Power(dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency	824.20	836.60	848.80	1850.20	1880.00	1909.80
GSM	32.09	32.28	32.50	29.08	29.23	29.70
GPRS (GMSK, 1 TX slot)	32.07	32.27	32.47	29.06	29.22	29.68
GPRS (GMSK, 2 TX slot)	29.32	29.52	29.72	28.27	28.46	28.92
GPRS (GMSK, 3 TX slot)	28.34	28.54	28.74	26.30	26.48	26.94
GPRS (GMSK, 4 TX slot)	27.23	27.43	27.63	25.20	25.38	25.94
EGPRS(GMSK, 1 TX slot)	32.03	32.23	32.43	28.99	29.18	29.64
EGPRS(GMSK, 2 TX slot)	31.30	31.50	31.70	28.25	28.44	28.90
EGPRS(GMSK, 3 TX slot)	29.30	29.50	29.70	26.25	26.43	26.89
EGPRS(GMSK, 4 TX slot)	27.24	27.44	27.64	24.21	24.39	24.85
EGPRS (8PSK, 1 TX slot)	26.65	26.86	27.04	24.39	24.64	25.00
EGPRS (8PSK, 2 TX slot)	25.29	25.59	25.90	23.19	23.40	23.72
EGPRS (8PSK, 3 TX slot)	23.14	23.43	23.61	21.94	22.07	22.34
EGPRS (8PSK, 4 TX slot)	22.20	22.36	22.58	21.04	21.11	21.43



Average Conducted Power(dBm)									
Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
Frequency	1852.4	1880.0	1907.6	1752.4	1732.6	1752.6	826.4	836.6	846.6
RMC 12.2Kbps	24.62	24.24	25.00	22.46	22.12	22.81	22.36	22.65	22.97
RMC 64kbps	24.04	24.04	24.67	22.24	21.94	22.51	22.44	22.29	22.31
RMC 144kbps	24.59	24.29	24.48	22.44	22.16	22.34	22.14	22.17	22.46
RMC 384kbps	24.03	24.24	24.19	22.23	22.12	22.07	22.27	22.19	22.40
HSDPA Subtest-1	24.25	24.38	24.59	22.13	22.25	22.44	22.79	22.76	22.76
HSDPA Subtest-2	24.43	24.55	24.46	22.29	22.40	22.32	22.78	22.38	22.55
HSDPA Subtest-3	24.62	24.63	23.89	22.46	22.47	22.30	22.36	22.42	22.87
HSDPA Subtest-4	24.09	24.11	24.60	22.28	22.40	22.45	22.45	22.82	22.66
HSUPA Subtest-1	24.35	24.30	24.28	22.22	22.17	22.15	22.44	22.80	22.33
HSUPA Subtest-2	24.58	23.98	24.64	22.43	22.18	22.48	22.47	22.20	22.32
HSUPA Subtest-3	24.79	23.92	23.91	22.62	22.33	22.22	22.64	22.75	22.16
HSUPA Subtest-4	24.10	24.59	24.11	22.19	22.44	22.30	22.67	22.36	22.85
HSUPA Subtest-5	24.21	24.24	24.19	22.09	22.12	22.07	22.23	22.24	22.30



Average Conducted Power						
Band	LTE Band 2			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	18607/1850.7	18900/1880	19193/1909.3
1.4MHz	QPSK	1	0	22.83	22.86	22.38
		1	2	22.73	22.74	22.51
		1	5	22.85	22.80	22.43
		6	0	22.22	22.27	22.56
	16QAM	1	0	22.46	22.32	22.60
		1	2	22.72	22.69	22.49
		1	5	22.48	22.79	22.47
		6	0	22.22	22.27	22.56
Bandwidth	Modulation	RB size	RB offset	18615/1851.5	18900/1880	19185/1908.5
3MHz	QPSK	1	0	22.17	22.21	22.55
		1	7	22.46	22.29	22.10
		1	14	22.34	22.33	22.73
		15	0	22.28	22.28	22.12
	16QAM	1	0	22.49	22.87	22.69
		1	7	22.85	22.77	22.79
		1	14	22.45	22.85	22.33
		15	0	22.28	22.28	22.12
Bandwidth	Modulation	RB size	RB offset	18625/1852.5	18900/1880	19175/1907.5
5MHz	QPSK	1	0	22.88	22.67	22.40
		1	13	22.33	22.79	22.26
		1	24	22.59	22.34	22.43
		25	0	22.54	22.82	22.23
	16QAM	1	0	22.26	22.71	22.87
		1	13	22.47	22.87	22.78
		1	24	22.79	22.76	22.64
		25	0	22.54	22.82	22.23



Average Conducted Power						
Band	LTE Band 2			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	18650/1855	18900/1880	19150/1905
10MHz	QPSK	1	0	22.70	22.65	22.54
		1	25	22.49	22.73	22.82
		1	49	22.47	22.64	22.50
		50	0	22.73	22.45	22.52
	16QAM	1	0	22.23	22.60	22.45
		1	25	22.65	22.20	22.77
		1	49	22.22	22.83	22.53
		50	0	22.73	22.45	22.52
Bandwidth	Modulation	RB size	RB offset	18675/1857.5	18900/1880	19125/1902.5
15MHz	QPSK	1	0	22.21	22.33	22.43
		1	38	22.64	22.33	22.27
		1	74	22.24	22.61	22.75
		75	0	22.14	22.73	22.23
	16QAM	1	0	22.23	22.81	22.56
		1	38	22.21	22.13	22.78
		1	74	22.36	22.12	22.57
		75	0	22.14	22.73	22.23
Bandwidth	Modulation	RB size	RB offset	18700/1860	18900/1880	19100/1900
20MHz	QPSK	1	0	22.65	22.62	22.69
		1	38	22.21	22.32	22.39
		1	74	22.70	22.12	22.52
		75	0	22.78	22.79	22.83
	16QAM	1	0	22.17	22.18	22.59
		1	38	22.26	22.38	22.12
		1	74	22.19	22.48	22.42
		75	0	22.55	22.13	22.70

Note: Measurement Uncertainty: ± 2.6 dB.



Average Conducted Power						
Band	LTE Band 4			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	19957/1710.7	20175/1732.5	20393/1754.3
1.4MHz	QPSK	1	0	22.12	22.10	22.33
		1	2	22.75	22.39	22.75
		1	5	22.56	22.90	22.71
		6	0	22.89	22.35	22.16
	16QAM	1	0	22.15	22.26	22.74
		1	2	22.46	22.35	22.69
		1	5	22.38	22.64	22.43
		6	0	22.12	22.10	22.33
Bandwidth	Modulation	RB size	RB offset	19965/1711.5	20175/1732.5	20385/1753.5
3MHz	QPSK	1	0	22.88	22.67	22.39
		1	7	22.36	22.68	22.54
		1	14	22.73	22.45	22.43
		15	0	22.36	22.28	22.25
	16QAM	1	0	22.22	22.58	22.38
		1	7	22.44	22.90	22.52
		1	14	22.14	22.69	22.23
		15	0	22.13	22.59	22.39
Bandwidth	Modulation	RB size	RB offset	19975/1712.5	20175/1732.5	20375/1752.5
5MHz	QPSK	1	0	22.75	22.25	22.82
		1	13	22.38	22.42	22.69
		1	24	22.13	22.54	22.32
		25	0	22.34	22.37	22.39
	16QAM	1	0	22.19	22.40	22.24
		1	13	22.36	22.70	22.52
		1	24	22.50	22.67	22.60
		25	0	22.75	22.25	22.82



Average Conducted Power						
Band	LTE Band 4			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	20000/1715	20175/1732.5	20350/1750
10MHz	QPSK	1	0	22.85	22.28	22.10
		1	25	22.90	22.76	22.14
		1	49	22.69	22.67	22.40
		50	0	22.68	22.79	22.44
	16QAM	1	0	22.65	22.53	22.44
		1	25	22.45	22.81	22.13
		1	49	22.22	22.90	22.85
		50	0	22.51	22.16	22.76
Bandwidth	Modulation	RB size	RB offset	20025/1717.5	20175/1732.5	20325/1747.5
15MHz	QPSK	1	0	22.84	22.17	22.11
		1	38	22.66	22.79	22.68
		1	74	22.80	22.33	22.41
		75	0	22.34	22.27	22.88
	16QAM	1	0	22.23	22.13	22.24
		1	38	22.32	22.42	22.68
		1	74	22.84	22.44	22.78
		75	0	22.38	22.38	22.24
Bandwidth	Modulation	RB size	RB offset	20050/1720	20175/1732.5	20300/1745
20MHz	QPSK	1	0	22.46	22.14	22.25
		1	50	22.30	22.26	22.24
		1	99	22.38	22.33	22.11
		100	0	22.61	22.82	22.34
	16QAM	1	0	22.21	22.41	22.72
		1	50	22.28	22.90	22.40
		1	99	22.87	22.73	22.22
		100	0	22.18	22.49	22.37

Note: Measurement Uncertainty: ± 2.6 dB.



Average Conducted Power						
Band	LTE Band 5			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	20407/824.7	20525/836.5	20643/848.3
1.4MHz	QPSK	1	0	22.65	22.69	22.74
		1	2	22.17	22.45	22.44
		1	5	22.61	22.23	22.51
		6	0	22.77	22.64	22.29
	16QAM	1	0	22.22	22.85	22.85
		1	2	22.89	22.84	22.61
		1	5	22.39	22.88	22.12
		6	0	22.57	22.17	22.38
Bandwidth	Modulation	RB size	RB offset	20415/825.5	20525/836.5	20635/847.5
3MHz	QPSK	1	0	22.64	22.61	22.26
		1	7	22.41	22.90	22.19
		1	14	22.11	22.86	22.20
		15	0	22.18	22.33	22.70
	16QAM	1	0	22.37	22.10	22.82
		1	7	22.11	22.16	22.36
		1	14	22.62	22.20	22.59
		15	0	22.50	22.40	22.81
Bandwidth	Modulation	RB size	RB offset	20425/826.5	20525/836.5	20625/846.5
5MHz	QPSK	1	0	22.11	22.48	22.72
		1	13	22.53	22.81	22.41
		1	24	22.16	22.31	22.12
		25	0	22.69	22.56	22.42
	16QAM	1	0	22.68	22.11	22.64
		1	13	22.87	22.20	22.13
		1	24	22.23	22.12	22.81
		25	0	22.35	22.88	22.34
Bandwidth	Modulation	RB size	RB offset	20450/829	20525/836.5	20600/844
10MHz	QPSK	1	0	22.59	22.16	22.29
		1	25	22.50	22.86	22.40
		1	49	22.36	22.49	22.41
		50	0	22.27	22.30	22.49
	16QAM	1	0	22.56	22.16	22.35
		1	25	22.50	22.88	22.39
		1	49	22.49	22.49	22.70
		50	0	22.32	22.44	22.18

Note: Measurement Uncertainty: ± 2.6 dB.



Average Conducted Power(dBm)						
Band	LTE Band 7			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	20775/2502.5	21100/2535.0	21425/2567.5
5MHz	QPSK	1	0	22.31	22.19	22.66
		1	12	22.65	22.47	22.43
		1	24	22.32	22.18	22.15
		25	0	22.93	22.75	22.53
	16QAM	1	0	22.21	22.11	22.67
		1	12	22.64	22.43	22.33
		1	24	22.20	22.43	22.31
		25	0	22.91	22.33	22.25
Bandwidth	Modulation	RB size	RB offset	20800/2505.0	21100/2535.0	21400/2565.0
10MHz	QPSK	1	0	22.94	22.78	22.79
		1	24	22.44	22.86	22.85
		1	49	22.84	22.27	22.49
		50	0	22.27	22.74	22.31
	16QAM	1	0	22.90	22.43	22.45
		1	24	22.63	22.46	22.67
		1	49	22.76	22.18	22.59
		50	0	22.92	22.42	22.36
Bandwidth	Modulation	RB size	RB offset	20825/2507.5	21100/2535.0	21375/2562.5
15MHz	QPSK	1	0	22.54	22.69	22.87
		1	37	22.72	22.82	22.80
		1	74	22.73	22.48	22.83
		75	0	22.16	22.14	22.39
	16QAM	1	0	22.22	22.81	22.54
		1	37	22.90	22.15	22.75
		1	74	22.87	22.87	22.65
		75	0	22.62	22.58	22.83
Bandwidth	Modulation	RB size	RB offset	20850/2510.0	21100/2535.0	21350/2560.0
20MHz	QPSK	1	0	23.15	22.62	22.67
		1	25	22.44	22.52	22.71
		1	50	22.48	22.81	22.46
		100	0	22.53	22.66	22.56
	16QAM	1	0	22.88	22.44	22.69
		1	25	22.19	22.40	22.79
		1	50	22.25	22.37	22.64
		100	0	22.81	22.47	22.64

Note: Measurement Uncertainty: ± 2.6 dB.



Average Conducted Power						
Band	LTE Band 66			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	131979/1710.7	132322/1745	132665/1779.3
1.4MHz	QPSK	1	0	22.32	22.84	22.57
		1	2	22.14	22.40	22.87
		1	5	22.48	22.54	22.86
		6	0	22.60	22.81	22.70
	16QAM	1	0	22.81	22.79	22.46
		1	2	22.29	22.32	22.74
		1	5	22.86	22.21	22.56
		6	0	22.89	22.84	22.54
Bandwidth	Modulation	RB size	RB offset	131987/1711.5	132322/1745	132657/1778.5
3MHz	QPSK	1	0	22.28	22.54	22.76
		1	7	22.61	22.57	22.82
		1	14	22.76	22.14	22.52
		15	0	22.33	22.19	22.46
	16QAM	1	0	22.35	22.25	22.65
		1	7	22.62	22.68	22.82
		1	14	22.79	22.33	22.59
		15	0	22.35	22.69	22.59
Bandwidth	Modulation	RB size	RB offset	131997/1712.5	132322/1745	132647/1777.5
5MHz	QPSK	1	0	22.35	22.72	22.76
		1	12	22.39	22.49	22.57
		1	24	22.32	22.23	22.60
		25	0	22.90	22.23	22.26
	16QAM	1	0	22.20	22.23	22.41
		1	12	22.55	22.46	22.43
		1	24	22.42	22.75	22.43
		25	0	22.41	22.78	22.62



Average Conducted Power						
Band	LTE Band 66			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	132022/1715	132322/1745	132622/1775
10MHz	QPSK	1	0	22.49	22.50	22.16
		1	24	22.71	22.27	22.28
		1	49	22.26	22.47	22.21
		50	0	22.26	22.23	22.66
	16QAM	1	0	22.35	22.26	22.23
		1	24	22.60	22.50	22.33
		1	49	22.81	22.81	22.49
		50	0	22.32	22.51	22.25
Bandwidth	Modulation	RB size	RB offset	132047/1717.5	132322/1745	132597/1772.5
15MHz	QPSK	1	0	22.54	22.41	22.17
		1	38	22.47	22.31	22.26
		1	74	22.55	22.29	22.57
		75	0	22.43	22.65	22.85
	16QAM	1	0	22.37	22.89	22.83
		1	38	22.69	22.33	22.36
		1	74	22.17	22.20	22.58
		75	0	22.19	22.84	22.23
Bandwidth	Modulation	RB size	RB offset	132072/1720	132322/1745	132572/1770
20MHz	QPSK	1	0	22.71	22.64	22.87
		1	50	22.74	22.42	22.48
		1	99	22.88	22.64	22.31
		100	0	22.19	22.40	22.14
	16QAM	1	0	22.58	22.84	22.26
		1	50	22.37	22.17	22.78
		1	99	22.47	22.14	22.49
		100	0	22.14	22.12	22.27

Note: Measurement Uncertainty: $\pm 2.6\text{dB}$.



5.2. -26dB and 99% Occupied Bandwidth

5.2.1. Limit

According to FCC section 2.1049 and FCC part22.99 and FCC part24.131, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth,

5.2.2. Test Setup

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power.

5.2.3. Test Result

Pass, the table and plot please see annex.

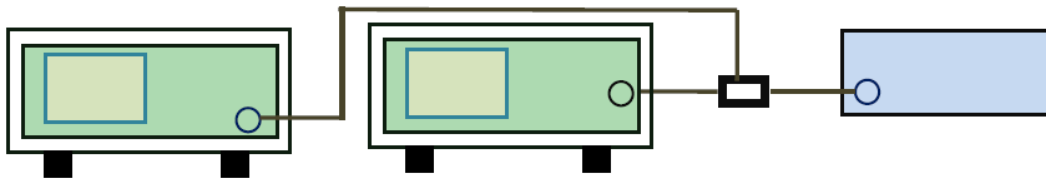


5.3. Peak to Average Ratio

5.3.1. Limit

According to FCC section 27.50(d)(5), 22.99, 24.131 the peak to average ratio(PAR) of the transmission may not exceed 13dB.

5.3.2. Test Setup



5.3.3. Test Procedure

According with KDB 971168 v02r02

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

5.3.4. Test Result

Pass, the table and plot please see annex.



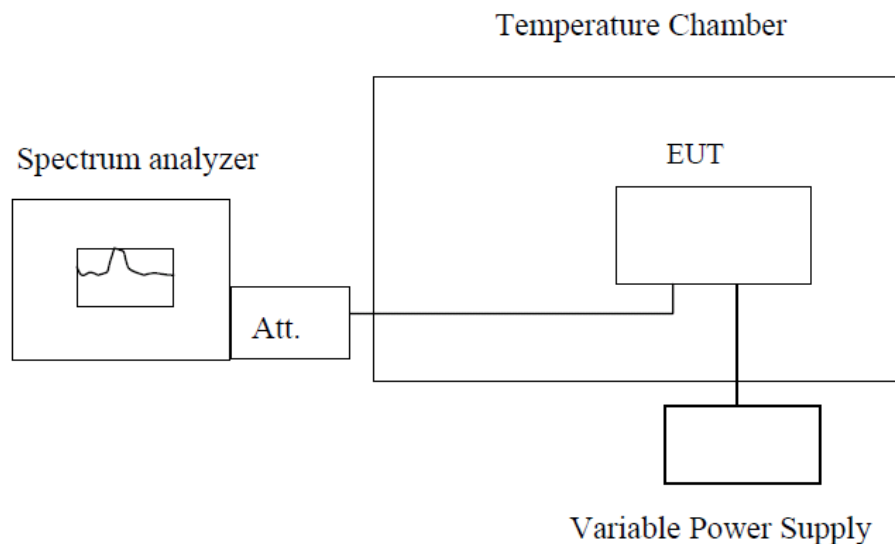
5.4. Frequency Stability

5.4.1. Limit

According to FCC section 22.355 and FCC section 24.235, FCC section 27.54 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -40°C to $+80^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

5.4.2. Test Setup



Note : Measurement setup for testing on Antenna connector

The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber.

The EUT is commanded by the System Simulator (SS) to operate at the maximum output power

5.4.3. Test Result

The nominal, highest and lowest extreme voltages are separately 3.7VDC, 4.25VDC and 3.34VDC

which are specified by the applicant; the normal temperature here used is 25°C . The frequency

deviation limit of 850MHz band is $\pm 2.5\text{ppm}$, and 1900MHz is $\pm 1\text{ppm}$

For LTE mode, only test the max bandwidth.

The table and plot please see annex.



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
GSM850 Middle channel 836.0MHz	24.0	-40	42	0.0502	±2.5	PASS
	24.0	-30	56	0.0669		
	24.0	-20	67	0.0801		
	24.0	-10	34	0.0406		
	24.0	0	112	0.1339		
	24.0	10	23	0.0275		
	24.0	20	45	0.0538		
	24.0	30	66	0.0789		
	24.0	40	54	0.0646		
	24.0	50	21	0.0251		
	24.0	60	34	0.0406		
	24.0	70	43	0.0514		
	24.0	80	78	0.0932		
	26.4	25	126	0.1506		
	24.0	25	32	0.0383		
	21.6	25	76	0.0909		
EGPRS850 Middle channel 836.0MHz	24.0	-40	65	0.0777	±2.5	PASS
	24.0	-30	32	0.0383		
	24.0	-20	76	0.0909		
	24.0	-10	89	0.1064		
	24.0	0	23	0.0275		
	24.0	10	46	0.0550		
	24.0	20	75	0.0897		
	24.0	30	22	0.0263		
	24.0	40	78	0.0932		
	24.0	50	32	0.0383		
	24.0	60	78	0.0932		
	24.0	70	21	0.0251		
	24.0	80	89	0.1064		
	26.4	25	119	0.1423		
	24.0	25	32	0.0383		
	21.6	25	98	0.1172		



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
GSM1900 Middle channel 1880.0MHz	24.0	-40	67	0.0356	±2.5	PASS
	24.0	-30	56	0.0298		
	24.0	-20	65	0.0346		
	24.0	-10	78	0.0415		
	24.0	0	98	0.0521		
	24.0	10	86	0.0457		
	24.0	20	66	0.0351		
	24.0	30	82	0.0436		
	24.0	40	69	0.0367		
	24.0	50	73	0.0388		
	24.0	60	77	0.0410		
	24.0	70	89	0.0473		
	24.0	80	112	0.0596		
	26.4	25	121	0.0644		
	24.0	25	77	0.0410		
	21.6	25	89	0.0473		
EGPRS1900 Middle channel 1880.0MHz	24.0	-40	56	0.0298	±2.5	PASS
	24.0	-30	78	0.0415		
	24.0	-20	23	0.0122		
	24.0	-10	87	0.0463		
	24.0	0	32	0.0170		
	24.0	10	51	0.0271		
	24.0	20	43	0.0229		
	24.0	30	57	0.0303		
	24.0	40	88	0.0468		
	24.0	50	54	0.0287		
	24.0	60	63	0.0335		
	24.0	70	57	0.0303		
	24.0	80	34	0.0181		
	26.4	25	132	0.0702		
	24.0	25	78	0.0415		
	21.6	25	99	0.0527		



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
WCDMA Band 2 Middle channel 1880MHz	24.0	-40	32	0.0170	±2.5	PASS
	24.0	-30	45	0.0239		
	24.0	-20	21	0.0112		
	24.0	-10	56	0.0298		
	24.0	0	67	0.0356		
	24.0	10	65	0.0346		
	24.0	20	34	0.0181		
	24.0	30	23	0.0122		
	24.0	40	76	0.0404		
	24.0	50	75	0.0399		
	24.0	60	75	0.0399		
	24.0	70	78	0.0415		
	24.0	80	76	0.0404		
	26.4	25	124	0.0660		
	24.0	25	78	0.0415		
	21.6	25	89	0.0473		
WCDMA Band 4 Middle channel 1732.6MHz	24.0	-40	87	0.0502	±2.5	PASS
	24.0	-30	98	0.0566		
	24.0	-20	67	0.0387		
	24.0	-10	84	0.0485		
	24.0	0	77	0.0444		
	24.0	10	93	0.0537		
	24.0	20	109	0.0629		
	24.0	30	78	0.0450		
	24.0	40	176	0.1016		
	24.0	50	56	0.0323		
	24.0	60	99	0.0571		
	24.0	70	67	0.0387		
	24.0	80	98	0.0566		
	26.4	25	187	0.1079		
	24.0	25	165	0.0952		
	21.6	25	99	0.0571		
WCDMA Band 5 Middle channel 836.6MHz	24.0	-40	75	0.0896	±2.5	PASS
	24.0	-30	88	0.1052		
	24.0	-20	32	0.0383		
	24.0	-10	76	0.0908		
	24.0	0	56	0.0669		
	24.0	10	78	0.0932		
	24.0	20	78	0.0932		
	24.0	30	54	0.0645		
	24.0	40	123	0.1470		
	24.0	50	32	0.0383		
	24.0	60	87	0.1040		
	24.0	70	45	0.0538		
	24.0	80	76	0.0908		
	26.4	25	165	0.1972		
	24.0	25	78	0.0932		
	21.6	25	97	0.1159		



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
LTE Band 2 Bandwidth 20MHz QPSK Middle channel 1880MHz	24.0	-40	64	0.0340	±1	PASS
	24.0	-30	35	0.0186		
	24.0	-20	78	0.0415		
	24.0	-10	66	0.0351		
	24.0	0	65	0.0346		
	24.0	10	46	0.0245		
	24.0	20	67	0.0356		
	24.0	30	98	0.0521		
	24.0	40	73	0.0388		
	24.0	50	67	0.0356		
	24.0	60	54	0.0287		
	24.0	70	56	0.0298		
	24.0	80	79	0.0420		
	26.4	25	54	0.0287		
	24.0	25	66	0.0351		
	21.6	25	178	0.0947		
LTE Band 2 Bandwidth 20MHz 16QAM Middle channel 1880MHz	24.0	-40	67	0.0356	±1	PASS
	24.0	-30	83	0.0441		
	24.0	-20	72	0.0383		
	24.0	-10	73	0.0388		
	24.0	0	43	0.0229		
	24.0	10	67	0.0356		
	24.0	20	82	0.0436		
	24.0	30	36	0.0191		
	24.0	40	55	0.0293		
	24.0	50	39	0.0207		
	24.0	60	54	0.0287		
	24.0	70	53	0.0282		
	24.0	80	21	0.0112		
	26.4	25	67	0.0356		
	24.0	25	21	0.0112		
	21.6	25	98	0.0521		



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
LTE Band 4 Bandwidth 15MHz QPSK Middle channel 1732.5MHz	24.0	-40	65	0.0375	±1	PASS
	24.0	-30	56	0.0323		
	24.0	-20	34	0.0196		
	24.0	-10	52	0.0300		
	24.0	0	42	0.0242		
	24.0	10	23	0.0133		
	24.0	20	63	0.0364		
	24.0	30	34	0.0196		
	24.0	40	21	0.0121		
	24.0	50	64	0.0369		
	24.0	60	25	0.0144		
	24.0	70	45	0.0260		
	24.0	80	65	0.0375		
	26.4	25	67	0.0387		
	24.0	25	53	0.0306		
	21.6	25	24	0.0139		
LTE Band 4 Bandwidth 15MHz 16QAM Middle channel 1732.5MHz	24.0	-40	65	0.0375	±1	PASS
	24.0	-30	64	0.0369		
	24.0	-20	52	0.0300		
	24.0	-10	87	0.0502		
	24.0	0	34	0.0196		
	24.0	10	63	0.0364		
	24.0	20	78	0.0450		
	24.0	30	57	0.0329		
	24.0	40	42	0.0242		
	24.0	50	87	0.0502		
	24.0	60	24	0.0139		
	24.0	70	86	0.0496		
	24.0	80	46	0.0266		
	26.4	25	86	0.0496		
	24.0	25	33	0.0190		
	21.6	25	56	0.0323		

Note: Measurement Uncertainty: ±20Hz.



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
LTE Band 5 Bandwidth 10MHz QPSK Middle channel 836.5MHz	24.0	-40	65	0.0777	±2.5	PASS
	24.0	-30	43	0.0514		
	24.0	-20	45	0.0538		
	24.0	-10	32	0.0383		
	24.0	0	67	0.0801		
	24.0	10	75	0.0897		
	24.0	20	35	0.0418		
	24.0	30	68	0.0813		
	24.0	40	32	0.0383		
	24.0	50	56	0.0669		
	24.0	60	78	0.0932		
	24.0	70	46	0.0550		
	24.0	80	87	0.1040		
	26.4	25	35	0.0418		
	24.0	25	87	0.1040		
	21.6	25	43	0.0514		
LTE Band 5 Bandwidth 10MHz 16QAM Middle channel 836.5MHz	24.0	-40	34	0.0406	±2.5	PASS
	24.0	-30	65	0.0777		
	24.0	-20	67	0.0801		
	24.0	-10	67	0.0801		
	24.0	0	87	0.1040		
	24.0	10	54	0.0646		
	24.0	20	21	0.0251		
	24.0	30	67	0.0801		
	24.0	40	43	0.0514		
	24.0	50	89	0.1064		
	24.0	60	54	0.0646		
	24.0	70	78	0.0932		
	24.0	80	45	0.0538		
	26.4	25	89	0.1064		
	24.0	25	46	0.0550		
	21.6	25	89	0.1064		

Note: Measurement Uncertainty: ±20Hz.



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
LTE Band 7 Bandwidth 20MHz QPSK Middle channel 2535.0MHz	24.0	-40	78	0.0308	±2.5	PASS
	24.0	-30	97	0.0383		
	24.0	-20	67	0.0264		
	24.0	-10	76	0.0300		
	24.0	0	34	0.0134		
	24.0	10	35	0.0138		
	24.0	20	86	0.0339		
	24.0	30	43	0.0170		
	24.0	40	78	0.0308		
	24.0	50	78	0.0308		
	24.0	60	43	0.0170		
	24.0	70	78	0.0308		
	24.0	80	65	0.0256		
	26.4	25	112	0.0442		
	24.0	25	68	0.0268		
	21.6	25	65	0.0256		
LTE Band 7 Bandwidth 20MHz 16QAM Middle channel 2535.0MHz	24.0	-40	64	0.0252	±2.5	PASS
	24.0	-30	45	0.0178		
	24.0	-20	78	0.0308		
	24.0	-10	32	0.0126		
	24.0	0	76	0.0300		
	24.0	10	86	0.0339		
	24.0	20	43	0.0170		
	24.0	30	78	0.0308		
	24.0	40	67	0.0264		
	24.0	50	53	0.0209		
	24.0	60	75	0.0296		
	24.0	70	54	0.0213		
	24.0	80	75	0.0296		
	26.4	25	123	0.0485		
	24.0	25	67	0.0264		
	21.6	25	78	0.0308		

Note: Measurement Uncertainty: ±20Hz.



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
LTE Band 66 Bandwidth 20MHz QPSK Middle channel 1745MHz	24.0	-40	67	0.0384	±1	PASS
	24.0	-30	54	0.0309		
	24.0	-20	57	0.0327		
	24.0	-10	75	0.0430		
	24.0	0	78	0.0447		
	24.0	10	43	0.0246		
	24.0	20	75	0.0430		
	24.0	30	34	0.0195		
	24.0	40	75	0.0430		
	24.0	50	67	0.0384		
	24.0	60	66	0.0378		
	24.0	70	76	0.0436		
	24.0	80	54	0.0309		
	26.4	25	46	0.0264		
	24.0	25	68	0.0390		
	21.6	25	65	0.0372		
LTE Band 66 Bandwidth 20MHz 16QAM Middle channel 1745MHz	24.0	-40	43	0.0246	±1	PASS
	24.0	-30	78	0.0447		
	24.0	-20	78	0.0447		
	24.0	-10	97	0.0556		
	24.0	0	33	0.0189		
	24.0	10	65	0.0372		
	24.0	20	66	0.0378		
	24.0	30	76	0.0436		
	24.0	40	47	0.0269		
	24.0	50	87	0.0499		
	24.0	60	54	0.0309		
	24.0	70	65	0.0372		
	24.0	80	34	0.0195		
	26.4	25	54	0.0309		
	24.0	25	65	0.0372		
	21.6	25	51	0.0292		

Note: Measurement Uncertainty: ±20Hz.

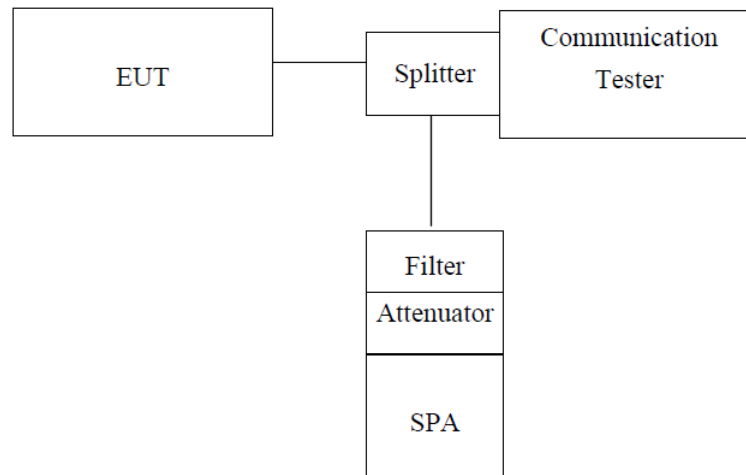


5.5. Conducted Spurious Emissions

5.5.1. Limit

According to FCC section 22.917(a) and FCC section 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. This calculated to be -13dBm.

5.5.2. Test Setup



Note: Measurement setup for testing on Antenna connector

5.5.3. Measurement Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 100KHz, Start=30MHz, Stop= 10th harmonic.

Limit = -13dBm

5.5.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

For LTE mode, the plot only show the min and max bandwidth's data.

Pass, the table and plot please see annex.

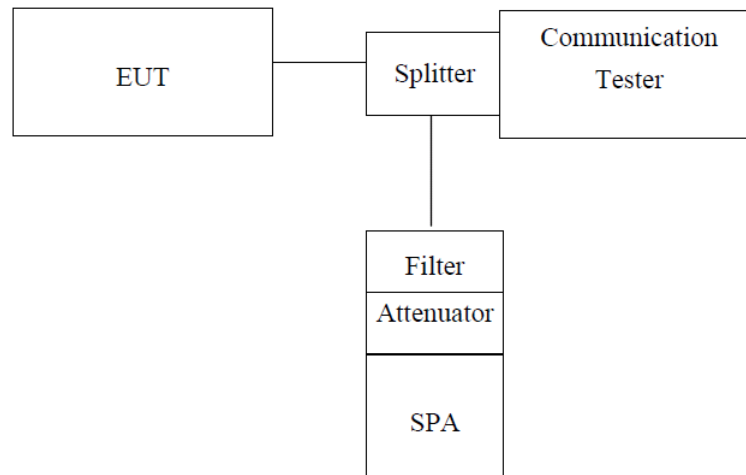


5.6. Conducted Out of Band Emissions

5.6.1. Limit

According to FCC section 22.917(b) and FCC section 24.238(b), 27.53(g)(h) in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

5.6.2. Test Setup



Note: Measurement setup for testing on Antenna connector

5.6.3. Measurement Procedure

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer and the System Simulator with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the System Simulator to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the System Simulator.

RBW is set to 3kHz,VBW is set to 10kHz for GSM 850, GSM 1900

RBW is set to 51kHz,VBW is set to 160kHz for WCDMA Band 5, WCDMA Band 2

RBW is set to 15 kHz, VBW is set to 51 kHz for LTE Band 2, LTE Band 4,LTE Band 5 (1.4MHz),

RBW is set to 30 kHz, VBW is set to 100 kHz for LTE Band 2, LTE Band 4,LTE Band 5 (3MHz),

RBW is set to 51 kHz, VBW is set to 160 kHz for LTE Band 2, LTE Band 4,LTE Band 5 (5MHz),

RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 2, LTE Band 4,LTE Band 5 (10MHz),

RBW is set to 150 kHz, VBW is set to 510 kHz for LTE Band 2, LTE Band 4 (15MHz).

RBW is set to 200 kHz, VBW is set to 620 kHz for LTE Band 2, LTE Band 4 (20MHz)

RBW is set to 50 kHz, VBW is set to 200 kHz for LTE Band 7 (5MHz).

RBW is set to 100 kHz, VBW is set to 300kHz for LTE Band 7 (10MHz).

RBW is set to 200 kHz, VBW is set to 1MHz for LTE Band 7 (15MHz/20MHz)

5.6.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

Pass, the table and plot please see annex.



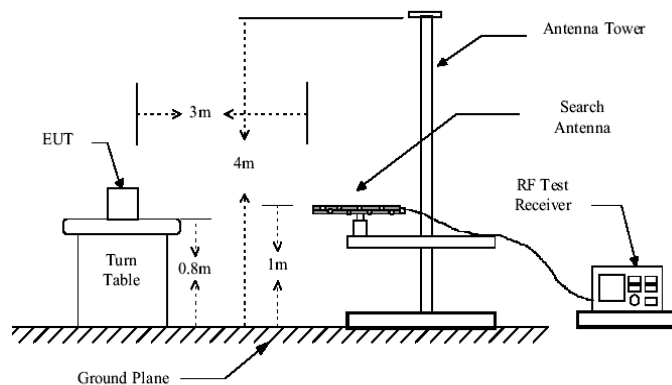
5.7. Transmitter Radiated Power (EIRP/ERP)

5.7.1. Limit

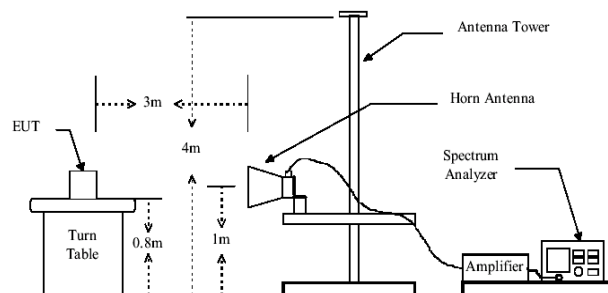
According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, FCC section 27.50 the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

5.7.2. Test Setup

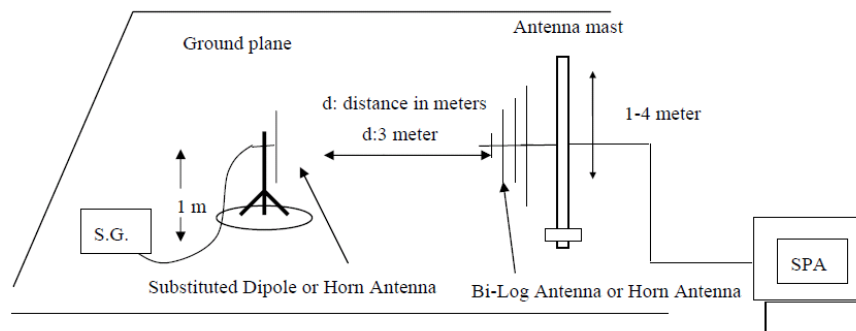
Below 1GHz



Above 1GHz



Substituted method:



5.7.3. 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:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

5.7.4. Test Result

Pass, the table and plot please see annex.

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Result
GSM 850	Lowest	V	15.34	19.33	2.52	32.15	38.45	Pass
		H	15.20	19.33	2.52	32.01		
	Middle	V	15.16	19.50	2.60	32.06	38.45	Pass
		H	15.29	19.50	2.60	32.19		
	Highest	V	15.34	19.94	2.71	32.57	38.45	Pass
		H	15.27	19.94	2.71	32.50		
EGPRS8 50	Lowest	V	15.14	19.33	2.52	31.95	38.45	Pass
		H	15.23	19.33	2.52	32.04		
	Middle	V	15.19	19.50	2.60	32.09	38.45	Pass
		H	15.24	19.50	2.60	32.14		
	Highest	V	15.30	19.94	2.71	32.53	38.45	Pass
		H	15.23	19.94	2.71	32.46		
EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
GSM1900	Lowest	V	16.48	15.68	1.65	30.51	33.00	Pass
		H	16.42	15.68	1.65	30.45		
	Middle	V	16.44	15.70	1.67	30.47	33.00	Pass
		H	16.33	15.70	1.67	30.36		
	Highest	V	16.10	15.70	1.71	30.09	33.00	Pass
		H	16.41	15.70	1.71	30.40		
EGPRS1 900	Lowest	V	16.37	15.68	1.65	30.40	33.00	Pass
		H	16.31	15.68	1.65	30.34		
	Middle	V	16.34	15.70	1.67	30.37	33.00	Pass
		H	16.32	15.70	1.67	30.35		
	Highest	V	16.20	15.70	1.71	30.19	33.00	Pass
		H	16.25	15.70	1.71	30.24		



EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
WCDMA Band 2	Lowest	V	4.19	19.33	1.65	21.87	33.00	Pass
		H	4.35	19.33	1.65	22.03		
	Middle	V	4.55	19.50	1.67	22.38	33.00	Pass
		H	4.38	19.50	1.67	22.21		
	Highest	V	4.16	19.94	1.71	22.39	33.00	Pass
		H	4.09	19.94	1.71	22.32		

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
WCDMA Band 4	Lowest	V	7.97	16.61	2.55	22.03	38.45	Pass
		H	8.92	16.61	2.55	22.98		
	Middle	V	8.54	15.89	2.62	21.81	38.45	Pass
		H	8.44	15.89	2.62	21.71		
	Highest	V	8.29	15.93	2.75	21.47	38.45	Pass
		H	8.12	15.93	2.75	21.30		

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Result
WCDMA Band 5	Lowest	V	8.74	15.68	2.52	21.90	38.45	Pass
		H	9.79	15.68	2.52	22.95		
	Middle	V	9.36	15.70	2.60	22.46	38.45	Pass
		H	9.25	15.70	2.60	22.35		
	Highest	V	9.09	15.70	2.71	22.08	38.45	Pass
		H	8.90	15.70	2.71	21.89		



EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 2 1.4MHz QPSK	Lowest	V	5.54	19.35	2.54	22.35	33.00	Pass
		H	5.62	19.35	2.54	22.43		
	Middle	V	5.87	19.51	2.62	22.76	33.00	Pass
		H	5.32	19.51	2.62	22.21		
	Highest	V	5.74	19.96	2.69	23.01	33.00	Pass
		H	5.70	19.96	2.69	22.97		
LTE BAND 2 3MHz QPSK	Lowest	V	5.43	19.35	2.54	22.24	33.00	Pass
		H	5.52	19.35	2.54	22.33		
	Middle	V	5.35	19.51	2.62	22.24	33.00	Pass
		H	5.21	19.51	2.62	22.10		
	Highest	V	5.62	19.96	2.69	22.89	33.00	Pass
		H	5.61	19.96	2.69	22.88		
LTE BAND 2 5MHz QPSK	Lowest	V	5.62	19.35	2.54	22.43	33.00	Pass
		H	5.71	19.35	2.54	22.52		
	Middle	V	5.55	19.51	2.62	22.44	33.00	Pass
		H	5.40	19.51	2.62	22.29		
	Highest	V	5.82	19.96	2.69	23.09	33.00	Pass
		H	5.79	19.96	2.69	23.06		
LTE BAND 2 10MHz QPSK	Lowest	V	21.95	21.91	21.91	21.95	33.00	Pass
		H	22.11	22.07	22.07	22.11		
	Middle	V	22.45	22.41	22.41	22.45	33.00	Pass
		H	22.29	22.25	22.25	22.29		
	Highest	V	23.06	23.02	23.02	23.06	33.00	Pass
		H	22.99	22.95	22.95	22.99		
LTE BAND 2 15MHz QPSK	Lowest	V	21.95	21.91	21.91	21.95	33.00	Pass
		H	22.11	22.07	22.07	22.11		
	Middle	V	22.45	22.41	22.41	22.45	33.00	Pass
		H	22.29	22.25	22.25	22.29		
	Highest	V	23.06	23.02	23.02	23.06	33.00	Pass
		H	22.99	22.95	22.95	22.99		
LTE BAND 2 20MHz QPSK	Lowest	V	22.04	22.00	22.00	22.04	33.00	Pass
		H	22.20	22.16	22.16	22.20		
	Middle	V	22.55	22.51	22.51	22.55	33.00	Pass
		H	22.38	22.34	22.34	22.38		
	Highest	V	23.16	23.12	23.12	23.16	33.00	Pass
		H	23.09	23.05	23.05	23.09		



EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 2 1.4MHz 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	6.37	19.51	2.62	23.26	33.00	Pass
		H	5.24	19.51	2.62	22.13		
	Highest	V	5.65	19.96	2.69	22.92	33.00	Pass
		H	5.61	19.96	2.69	22.88		
LTE BAND 2 3MHz 16QAM	Lowest	V	5.35	19.35	2.54	22.16	33.00	Pass
		H	5.44	19.35	2.54	22.25		
	Middle	V	6.24	19.51	2.62	23.13	33.00	Pass
		H	5.13	19.51	2.62	22.02		
	Highest	V	5.53	19.96	2.69	22.80	33.00	Pass
		H	5.52	19.96	2.69	22.79		
LTE BAND 2 5MHz 16QAM	Lowest	V	5.53	19.35	2.54	22.34	33.00	Pass
		H	5.62	19.35	2.54	22.43		
	Middle	V	6.46	19.51	2.62	23.35	33.00	Pass
		H	6.31	19.51	2.62	23.20		
	Highest	V	5.73	19.96	2.69	23.00	33.00	Pass
		H	5.70	19.96	2.69	22.97		
LTE BAND 2 10MHz 16QAM	Lowest	V	5.03	19.33	2.52	21.84	33.00	Pass
		H	5.19	19.33	2.52	22.00		
	Middle	V	5.44	19.50	2.60	22.34	33.00	Pass
		H	5.28	19.50	2.60	22.18		
	Highest	V	5.71	19.94	2.71	22.94	33.00	Pass
		H	5.64	19.94	2.71	22.87		
LTE BAND 2 15MHz 16QAM	Lowest	V	5.03	19.33	2.52	21.84	33.00	Pass
		H	5.19	19.33	2.52	22.00		
	Middle	V	5.44	19.50	2.60	22.34	33.00	Pass
		H	5.28	19.50	2.60	22.18		
	Highest	V	5.71	19.94	2.71	22.94	33.00	Pass
		H	5.64	19.94	2.71	22.87		
LTE BAND 2 20MHz 16QAM	Lowest	V	5.12	19.33	2.52	21.93	33.00	Pass
		H	5.28	19.33	2.52	22.09		
	Middle	V	5.53	19.50	2.60	22.43	33.00	Pass
		H	5.37	19.50	2.60	22.27		
	Highest	V	5.81	19.94	2.71	23.04	33.00	Pass
		H	5.74	19.94	2.71	22.97		



EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 4 1.4MHz QPSK	Lowest	V	5.50	19.35	2.54	22.31	30.00	Pass
		H	5.56	19.35	2.54	22.37		
	Middle	V	6.40	19.51	2.62	23.29	30.00	Pass
		H	5.26	19.51	2.62	22.15		
	Highest	V	5.68	19.96	2.69	22.95	30.00	Pass
		H	5.64	19.96	2.69	22.91		
LTE BAND 4 3MHz QPSK	Lowest	V	5.37	19.35	2.54	22.18	30.00	Pass
		H	5.48	19.35	2.54	22.29		
	Middle	V	5.29	19.51	2.62	22.18	30.00	Pass
		H	5.15	19.51	2.62	22.04		
	Highest	V	5.56	19.96	2.69	22.83	30.00	Pass
		H	5.55	19.96	2.69	22.82		
LTE BAND 4 5MHz QPSK	Lowest	V	5.57	19.35	2.54	22.38	30.00	Pass
		H	5.65	19.35	2.54	22.46		
	Middle	V	5.50	19.51	2.62	22.39	30.00	Pass
		H	5.34	19.51	2.62	22.23		
	Highest	V	5.76	19.96	2.69	23.03	30.00	Pass
		H	5.73	19.96	2.69	23.00		
LTE BAND 4 10MHz QPSK	Lowest	V	5.06	19.33	2.52	21.87	30.00	Pass
		H	5.20	19.33	2.52	22.01		
	Middle	V	5.47	19.50	2.60	22.37	30.00	Pass
		H	5.29	19.50	2.60	22.19		
	Highest	V	5.74	19.94	2.71	22.97	30.00	Pass
		H	5.67	19.94	2.71	22.90		
LTE BAND 4 15MHz QPSK	Lowest	V	5.06	19.33	2.52	21.87	30.00	Pass
		H	5.20	19.33	2.52	22.01		
	Middle	V	5.47	19.50	2.60	22.37	30.00	Pass
		H	5.29	19.50	2.60	22.19		
	Highest	V	5.74	19.94	2.71	22.97	30.00	Pass
		H	5.67	19.94	2.71	22.90		
LTE BAND 4 20MHz QPSK	Lowest	V	5.06	19.33	2.52	21.87	30.00	Pass
		H	5.20	19.33	2.52	22.01		
	Middle	V	5.47	19.50	2.60	22.37	30.00	Pass
		H	5.29	19.50	2.60	22.19		
	Highest	V	5.74	19.94	2.71	22.97	30.00	Pass
		H	5.67	19.94	2.71	22.90		



EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 4 1.4MHz 16QAM	Lowest	V	5.56	19.35	2.54	22.37	30.00	Pass
		H	5.64	19.35	2.54	22.45		
	Middle	V	6.48	19.51	2.62	23.37	30.00	Pass
		H	5.32	19.51	2.62	22.21		
	Highest	V	5.76	19.96	2.69	23.03	30.00	Pass
		H	5.72	19.96	2.69	22.99		
LTE BAND 4 3MHz 16QAM	Lowest	V	5.44	19.35	2.54	22.25	30.00	Pass
		H	5.54	19.35	2.54	22.35		
	Middle	V	5.35	19.51	2.62	22.24	30.00	Pass
		H	5.21	19.51	2.62	22.10		
	Highest	V	5.64	19.96	2.69	22.91	30.00	Pass
		H	5.63	19.96	2.69	22.90		
LTE BAND 4 5MHz 16QAM	Lowest	V	5.54	19.35	2.54	22.35	30.00	Pass
		H	5.63	19.35	2.54	22.44		
	Middle	V	5.47	19.51	2.62	22.36	30.00	Pass
		H	5.31	19.51	2.62	22.20		
	Highest	V	5.74	19.96	2.69	23.01	30.00	Pass
		H	5.71	19.96	2.69	22.98		
LTE BAND 4 10MHz 16QAM	Lowest	V	5.12	19.33	2.52	21.93	30.00	Pass
		H	5.27	19.33	2.52	22.08		
	Middle	V	5.54	19.50	2.60	22.44	30.00	Pass
		H	5.36	19.50	2.60	22.26		
	Highest	V	5.81	19.94	2.71	23.04	30.00	Pass
		H	5.75	19.94	2.71	22.98		
LTE BAND 4 15MHz 16QAM	Lowest	V	5.12	19.33	2.52	21.93	30.00	Pass
		H	5.27	19.33	2.52	22.08		
	Middle	V	5.54	19.50	2.60	22.44	30.00	Pass
		H	5.36	19.50	2.60	22.26		
	Highest	V	5.81	19.94	2.71	23.04	30.00	Pass
		H	5.75	19.94	2.71	22.98		
LTE BAND 4 20MHz 16QAM	Lowest	V	5.12	19.33	2.52	21.93	30.00	Pass
		H	5.27	19.33	2.52	22.08		
	Middle	V	5.54	19.50	2.60	22.44	30.00	Pass
		H	5.36	19.50	2.60	22.26		
	Highest	V	5.81	19.94	2.71	23.04	30.00	Pass
		H	5.75	19.94	2.71	22.98		



EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Result
LTE BAND 5 1.4MHz QPSK	Lowest	V	6.97	15.68	1.65	21.00	38.45	Pass
		H	8.00	15.68	1.65	22.03		
	Middle	V	7.52	15.70	1.67	21.55	38.45	Pass
		H	7.41	15.70	1.67	21.44		
	Highest	V	8.18	15.70	1.71	22.17	38.45	Pass
		H	6.97	15.70	1.71	20.96		
LTE BAND 5 3MHz QPSK	Lowest	V	7.80	15.68	1.65	21.83	38.45	Pass
		H	7.85	15.68	1.65	21.88		
	Middle	V	7.36	15.70	1.67	21.39	38.45	Pass
		H	7.26	15.70	1.67	21.29		
	Highest	V	7.02	15.70	1.71	21.01	38.45	Pass
		H	7.82	15.70	1.71	21.81		
LTE BAND 5 5MHz QPSK	Lowest	V	7.89	15.68	1.65	21.92	38.45	Pass
		H	7.93	15.68	1.65	21.96		
	Middle	V	7.45	15.70	1.67	21.48	38.45	Pass
		H	7.35	15.70	1.67	21.38		
	Highest	V	7.11	15.70	1.71	21.10	38.45	Pass
		H	7.90	15.70	1.71	21.89		
LTE BAND 5 10MHz QPSK	Lowest	V	7.81	15.68	1.65	21.84	38.45	Pass
		H	7.86	15.68	1.65	21.89		
	Middle	V	7.37	15.70	1.67	21.40	38.45	Pass
		H	6.28	15.70	1.67	20.31		
	Highest	V	8.03	15.70	1.71	22.02	38.45	Pass
		H	7.83	15.70	1.71	21.82		
LTE BAND 5 1.4MHz 16QAM	Lowest	V	7.00	15.68	1.65	21.03	38.45	Pass
		H	8.03	15.68	1.65	22.06		
	Middle	V	7.55	15.70	1.67	21.58	38.45	Pass
		H	7.44	15.70	1.67	21.47		
	Highest	V	7.21	15.70	1.71	21.20	38.45	Pass
		H	7.00	15.70	1.71	20.99		
LTE BAND 5 3MHz 16QAM	Lowest	V	7.83	15.68	1.65	21.86	38.45	Pass
		H	7.88	15.68	1.65	21.91		
	Middle	V	7.39	15.70	1.67	21.42	38.45	Pass
		H	7.28	15.70	1.67	21.31		
	Highest	V	7.05	15.70	1.71	21.04	38.45	Pass
		H	7.85	15.70	1.71	21.84		
LTE BAND 5 5MHz 16QAM	Lowest	V	7.92	15.68	1.65	21.95	38.45	Pass
		H	7.97	15.68	1.65	22.00		
	Middle	V	7.48	15.70	1.67	21.51	38.45	Pass
		H	7.38	15.70	1.67	21.41		
	Highest	V	7.13	15.70	1.71	21.12	38.45	Pass
		H	7.93	15.70	1.71	21.92		
LTE BAND 5 10MHz 16QAM	Lowest	V	7.84	15.68	1.65	21.87	38.45	Pass
		H	7.89	15.68	1.65	21.92		
	Middle	V	7.40	15.70	1.67	21.43	38.45	Pass
		H	7.29	15.70	1.67	21.32		
	Highest	V	8.06	15.70	1.71	22.05	38.45	Pass
		H	7.93	15.70	1.71	21.92		



EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 7 5MHz QPSK	Lowest	V	5.52	19.35	2.54	22.33	33.00	Pass
		H	5.60	19.35	2.54	22.41		
	Middle	V	6.46	19.51	2.62	23.35	33.00	Pass
		H	5.28	19.51	2.62	22.17		
	Highest	V	5.72	19.96	2.69	22.99	33.00	Pass
		H	5.68	19.96	2.69	22.95		
LTE BAND 7 10MHz QPSK	Lowest	V	5.39	19.35	2.54	22.20	33.00	Pass
		H	5.50	19.35	2.54	22.31		
	Middle	V	5.31	19.51	2.62	22.20	33.00	Pass
		H	5.17	19.51	2.62	22.06		
	Highest	V	5.60	19.96	2.69	22.87	33.00	Pass
		H	5.59	19.96	2.69	22.86		
LTE BAND 7 15MHz QPSK	Lowest	V	5.50	19.35	2.54	22.31	33.00	Pass
		H	5.59	19.35	2.54	22.40		
	Middle	V	5.43	19.51	2.62	22.32	33.00	Pass
		H	5.27	19.51	2.62	22.16		
	Highest	V	5.70	19.96	2.69	22.97	33.00	Pass
		H	5.67	19.96	2.69	22.94		
LTE BAND 7 20MHz QPSK	Lowest	V	5.52	19.35	2.54	22.33	33.00	Pass
		H	5.60	19.35	2.54	22.41		
	Middle	V	5.45	19.51	2.62	22.34	33.00	Pass
		H	5.34	19.51	2.62	22.23		
	Highest	V	5.73	19.96	2.69	23.00	33.00	Pass
		H	5.67	19.96	2.69	22.94		
LTE BAND 7 5MHz 16QAM	Lowest	V	5.34	19.35	2.54	22.15	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	5.54	19.35	2.54	22.35		
	Middle	V	5.37	19.51	2.62	22.26	33.00	Pass
		H	5.23	19.51	2.62	22.12		
	Highest	V	5.65	19.96	2.69	22.92	33.00	Pass
		H	5.62	19.96	2.69	22.89		
LTE BAND 7 15MHz 16QAM	Lowest	V	5.35	19.35	2.54	22.16	33.00	Pass
		H	5.45	19.35	2.54	22.26		
	Middle	V	5.27	19.51	2.62	22.16	33.00	Pass
		H	5.13	19.51	2.62	22.02		
	Highest	V	5.55	19.96	2.69	22.82	33.00	Pass
		H	5.54	19.96	2.69	22.81		
LTE BAND 7 20MHz 16QAM	Lowest	V	5.45	19.35	2.54	22.26	33.00	Pass
		H	5.54	19.35	2.54	22.35		
	Middle	V	5.37	19.51	2.62	22.26	33.00	Pass
		H	5.23	19.51	2.62	22.12		
	Highest	V	5.67	19.96	2.69	22.94	33.00	Pass
		H	5.62	19.96	2.69	22.89		



EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 66 5MHz QPSK	Lowest	V	5.58	19.35	2.54	22.39	33.00	Pass
		H	5.66	19.35	2.54	22.47		
	Middle	V	6.51	19.51	2.62	23.40	33.00	Pass
		H	5.34	19.51	2.62	22.23		
	Highest	V	5.78	19.96	2.69	23.05	33.00	Pass
		H	5.74	19.96	2.69	23.01		
LTE BAND 66 10MHz QPSK	Lowest	V	5.46	19.35	2.54	22.27	33.00	Pass
		H	5.56	19.35	2.54	22.37		
	Middle	V	5.37	19.51	2.62	22.26	33.00	Pass
		H	5.24	19.51	2.62	22.13		
	Highest	V	5.66	19.96	2.69	22.93	33.00	Pass
		H	5.65	19.96	2.69	22.92		
LTE BAND 66 15MHz QPSK	Lowest	V	5.56	19.35	2.54	22.37	33.00	Pass
		H	5.65	19.35	2.54	22.46		
	Middle	V	5.49	19.51	2.62	22.38	33.00	Pass
		H	5.33	19.51	2.62	22.22		
	Highest	V	5.76	19.96	2.69	23.03	33.00	Pass
		H	5.73	19.96	2.69	23.00		
LTE BAND 66 20MHz QPSK	Lowest	V	5.58	19.35	2.54	22.39	33.00	Pass
		H	5.66	19.35	2.54	22.47		
	Middle	V	5.51	19.51	2.62	22.40	33.00	Pass
		H	5.34	19.51	2.62	22.23		
	Highest	V	5.78	19.96	2.69	23.05	33.00	Pass
		H	5.74	19.96	2.69	23.01		
LTE BAND 66 5MHz 16QAM	Lowest	V	5.41	19.35	2.54	22.22	33.00	Pass
		H	5.50	19.35	2.54	22.31		
	Middle	V	5.33	19.51	2.62	22.22	33.00	Pass
		H	5.19	19.51	2.62	22.08		
	Highest	V	5.60	19.96	2.69	22.87	33.00	Pass
		H	5.59	19.96	2.69	22.86		
LTE BAND 66 10MHz 16QAM	Lowest	V	5.50	19.35	2.54	22.31	33.00	Pass
		H	5.59	19.35	2.54	22.40		
	Middle	V	5.43	19.51	2.62	22.32	33.00	Pass
		H	5.29	19.51	2.62	22.18		
	Highest	V	5.70	19.96	2.69	22.97	33.00	Pass
		H	5.67	19.96	2.69	22.94		
LTE BAND 66 15MHz 16QAM	Lowest	V	5.41	19.35	2.54	22.22	33.00	Pass
		H	5.50	19.35	2.54	22.31		
	Middle	V	5.33	19.51	2.62	22.22	33.00	Pass
		H	5.19	19.51	2.62	22.08		
	Highest	V	5.60	19.96	2.69	22.87	33.00	Pass
		H	5.59	19.96	2.69	22.86		
LTE BAND 66 20MHz 16QAM	Lowest	V	5.50	19.35	2.54	22.31	33.00	Pass
		H	5.59	19.35	2.54	22.40		
	Middle	V	5.43	19.51	2.62	22.32	33.00	Pass
		H	5.29	19.51	2.62	22.18		
	Highest	V	5.70	19.96	2.69	22.97	33.00	Pass
		H	5.35	19.96	2.69	22.62		



5.8. Radiated Out of Band Emissions

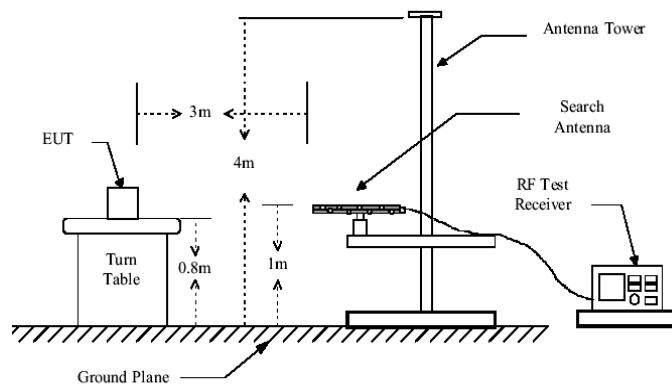
5.8.1. Limit

According to FCC section 22.917(a) and section 24.238(a), 27.53(g) 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.

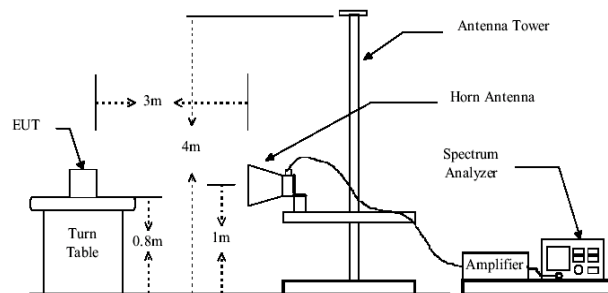
The spurious emission with frequency band 1900 according to FCC section 2.1057.

5.8.2. Test Setup

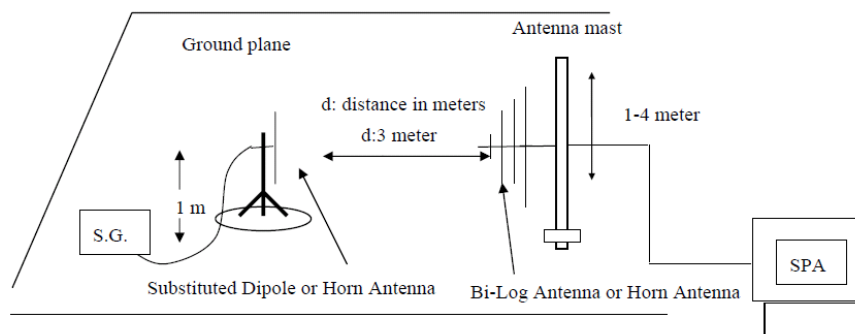
Below 1GHz



Above 1GHz



Substituted method:





5.8.3. 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.

$EIRP \text{ (Level)} = S.G. \text{ output (dBm)} + \text{Antenna Gain(dBi)} - \text{Cable Loss (dB)}$

Note: Measurement Uncertainty: $\pm 3.6 \text{ dB}$.

The data show only the worst results, and the other results are very low and not shown in the report.

5.8.4. Test Result



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
GSM850 Lowest	87.53	Vertical	-75.62	3.35	0.38	-72.65	-13	PASS
	1648.40	Vertical	-46.29	7.76	3.75	-42.28		
	2472.60	Vertical	-47.40	9.84	4.94	-42.50		
	3296.80	Vertical	-39.82	10.21	5.32	-34.93		
	4121.00	Vertical	-43.20	11.36	6.02	-37.86		
	4945.20	Vertical	-44.74	14.52	6.68	-36.90		
GSM850 Middle	88.46	Vertical	-75.62	3.35	0.38	-72.65	-13	PASS
	1673.20	Vertical	-47.61	7.76	3.75	-43.60		
	2509.80	Vertical	-47.20	9.84	4.94	-42.30		
	3346.40	Vertical	-42.81	10.21	5.32	-37.92		
	4183.00	Vertical	-42.22	11.36	6.02	-36.88		
	5019.60	Vertical	-46.19	14.52	6.68	-38.35		
GSM850 Highest	88.65	Vertical	-75.58	3.35	0.38	-72.61	-13	PASS
	1697.60	Vertical	-47.20	7.79	3.53	-42.94		
	2546.40	Vertical	-41.66	9.88	5.02	-36.80		
	3395.20	Vertical	-37.85	10.25	5.54	-33.14		
	4244.00	Vertical	-44.71	11.38	6.16	-39.49		
	5092.80	Vertical	-47.15	14.56	6.72	-39.31		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
GSM1900 Lowest	87.54	Vertical	-75.19	3.35	0.38	-72.22	-13	PASS
	3700.40	Vertical	-46.02	7.76	3.75	-42.01		
	5550.60	Vertical	-47.13	9.84	4.94	-42.23		
	7400.80	Vertical	-39.59	10.21	5.32	-34.70		
	9251.00	Vertical	-42.96	11.36	6.02	-37.62		
	11101.20	Vertical	-44.49	14.52	6.68	-36.65		
GSM1900 Middle	88.70	Vertical	-75.19	3.35	0.38	-72.22	-13	PASS
	3760.00	Vertical	-47.34	7.76	3.75	-43.33		
	5640.00	Vertical	-46.94	9.84	4.94	-42.04		
	7520.00	Vertical	-42.57	10.21	5.32	-37.68		
	9400.00	Vertical	-41.98	11.36	6.02	-36.64		
	11280.00	Vertical	-45.92	14.52	6.68	-38.08		
GSM1900 Highest	88.76	Vertical	-75.15	3.35	0.38	-72.18	-13	PASS
	3819.60	Vertical	-46.94	7.79	3.53	-42.68		
	5729.40	Vertical	-41.41	9.88	5.02	-36.55		
	7639.20	Vertical	-37.62	10.25	5.54	-32.91		
	9549.00	Vertical	-44.46	11.38	6.16	-39.24		
	11458.80	Vertical	-46.89	14.56	6.72	-39.05		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
WCDMA Band 2 Lowest	87.76	Vertical	-75.95	3.35	0.38	-72.98	-13	PASS
	3704.80	Vertical	-46.48	7.76	3.75	-42.47		
	5557.20	Vertical	-47.60	9.84	4.94	-42.70		
	7409.60	Vertical	-39.99	10.21	5.32	-35.10		
	9262.00	Vertical	-43.38	11.36	6.02	-38.04		
	11114.40	Vertical	-44.94	14.52	6.68	-37.10		
WCDMA Band 2 Middle	88.43	Vertical	-75.95	3.35	0.38	-72.98	-13	PASS
	3760.00	Vertical	-47.81	7.76	3.75	-43.80		
	5640.00	Vertical	-47.41	9.84	4.94	-42.51		
	7520.00	Vertical	-43.00	10.21	5.32	-38.11		
	9400.00	Vertical	-42.40	11.36	6.02	-37.06		
	11280.00	Vertical	-46.38	14.52	6.68	-38.54		
WCDMA Band 2 Highest	88.77	Vertical	-75.91	3.35	0.38	-72.94	-13	PASS
	3819.60	Vertical	-47.41	7.79	3.53	-43.15		
	5729.40	Vertical	-41.83	9.88	5.02	-36.97		
	7639.20	Vertical	-38.00	10.25	5.54	-33.29		
	9549.00	Vertical	-44.91	11.38	6.16	-39.69		
	11458.80	Vertical	-47.36	14.56	6.72	-39.52		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
WCDMA Band 4 Lowest	87.65	Vertical	-68.30	3.35	0.38	-65.33	-13	PASS
	3424.80	Vertical	-41.81	7.65	3.66	-37.82		
	5137.20	Vertical	-42.81	9.77	4.87	-37.91		
	6849.60	Vertical	-35.97	10.15	5.21	-31.03		
	8562.00	Vertical	-39.02	11.43	6.01	-33.60		
	10274.40	Vertical	-40.41	14.47	6.32	-32.26		
WCDMA Band 4 Middle	88.22	Vertical	-68.30	3.35	0.38	-65.33	-13	PASS
	3465.20	Vertical	-43.00	7.67	3.75	-39.08		
	5197.80	Vertical	-42.64	9.78	4.94	-37.80		
	6930.40	Vertical	-38.67	10.16	5.32	-33.83		
	8663.00	Vertical	-38.13	11.33	6.02	-32.82		
	10395.60	Vertical	-41.72	14.45	6.68	-33.95		
WCDMA Band 4 Highest	88.88	Vertical	-68.27	3.35	0.38	-65.30	-13	PASS
	3505.20	Vertical	-42.64	7.65	3.45	-38.44		
	5757.80	Vertical	-37.62	9.83	5.01	-32.80		
	7010.40	Vertical	-34.17	10.16	5.43	-29.44		
	8763.00	Vertical	-40.38	11.54	6.21	-35.05		
	10515.60	Vertical	-42.59	14.46	6.71	-34.84		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Level (dBm)		
WCDMA Band 5 Lowest	87.21	Vertical	-75.57	3.35	0.38	-72.60	-13	PASS
	1652.80	Vertical	-29.25	6.51	1.35	-24.09		
	2479.20	Vertical	-35.44	6.88	2.53	-31.09		
	3305.60	Vertical	-37.29	7.61	3.67	-33.35		
	4132.00	Vertical	-45.40	8.67	4.06	-40.79		
	4958.40	Vertical	-39.95	9.35	4.38	-34.98		
WCDMA Band 5 Lowest	87.23	Vertical	-75.52	3.35	0.38	-72.55	-13	PASS
	1670.00	Vertical	-32.19	6.58	1.38	-26.99		
	2505.00	Vertical	-32.74	6.92	2.57	-28.39		
	3340.00	Vertical	-40.21	7.67	3.72	-36.26		
	4175.00	Vertical	-47.77	8.75	4.19	-43.21		
	5010.00	Vertical	-43.28	9.48	4.45	-38.25		
WCDMA Band 5 Lowest	88.32	Vertical	-75.20	3.35	0.38	-72.23	-13	PASS
	1693.20	Vertical	-31.08	6.57	1.48	-25.99		
	2539.80	Vertical	-33.00	6.96	2.67	-28.71		
	3386.40	Vertical	-36.15	7.68	3.78	-32.25		
	4233.00	Vertical	-41.47	8.76	4.24	-36.95		
	5079.60	Vertical	-46.88	9.47	4.63	-42.04		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 1.4MHz Lowest	87.15	Vertical	-75.24	3.35	0.38	-72.27	-13	PASS
	3701.40	Vertical	-46.04	7.76	3.75	-42.03		
	5552.10	Vertical	-47.16	9.84	4.94	-42.26		
	7402.80	Vertical	-39.61	10.21	5.32	-34.72		
	9253.50	Vertical	-42.99	11.36	6.02	-37.65		
	11104.20	Vertical	-44.52	14.52	6.68	-36.68		
LTE BAND 2 1.4MHz Middle	88.27	Vertical	-75.24	3.35	0.38	-72.27	-13	PASS
	3760.00	Vertical	-47.37	7.76	3.75	-43.36		
	5640.00	Vertical	-46.97	9.84	4.94	-42.07		
	7520.00	Vertical	-42.60	10.21	5.32	-37.71		
	9400.00	Vertical	-42.01	11.36	6.02	-36.67		
	11280.00	Vertical	-45.94	14.52	6.68	-38.10		
LTE BAND 2 1.4MHz Highest	88.21	Vertical	-75.20	3.35	0.38	-72.23	-13	PASS
	3819.60	Vertical	-46.97	7.79	3.53	-42.71		
	5729.40	Vertical	-41.44	9.88	5.02	-36.58		
	7639.20	Vertical	-37.65	10.25	5.54	-32.94		
	9549.00	Vertical	-44.49	11.38	6.16	-39.27		
	11458.80	Vertical	-46.91	14.56	6.72	-39.07		
LTE BAND 2 3MHz Lowest	87.33	Vertical	-75.24	3.35	0.38	-72.27	-13	PASS
	3700.40	Vertical	-46.04	7.76	3.75	-42.03		
	5550.60	Vertical	-46.84	9.84	4.94	-41.94		
	7400.80	Vertical	-39.35	10.21	5.32	-34.46		
	9251.00	Vertical	-42.70	11.36	6.02	-37.36		
	11101.20	Vertical	-44.22	14.52	6.68	-36.38		
LTE BAND 2 3MHz Middle	88.32	Vertical	-74.82	3.35	0.38	-71.85	-13	PASS
	3760.00	Vertical	-47.11	7.76	3.75	-43.10		
	5640.00	Vertical	-46.70	9.84	4.94	-41.80		
	7520.00	Vertical	-42.36	10.21	5.32	-37.47		
	9400.00	Vertical	-41.78	11.36	6.02	-36.44		
	11280.00	Vertical	-45.69	14.52	6.68	-37.85		
LTE BAND 2 3MHz Highest	88.45	Vertical	-74.78	3.35	0.38	-71.81	-13	PASS
	3819.60	Vertical	-46.70	7.79	3.53	-42.44		
	5729.40	Vertical	-41.21	9.88	5.02	-36.35		
	7639.20	Vertical	-37.44	10.25	5.54	-32.73		
	9549.00	Vertical	-44.24	11.38	6.16	-39.02		
	11458.80	Vertical	-46.65	14.56	6.72	-38.81		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 5MHz Lowest	87.54	Vertical	-74.86	3.35	0.38	-71.89	-13	PASS
	3700.40	Vertical	-45.82	7.76	3.75	-41.81		
	5550.60	Vertical	-46.92	9.84	4.94	-42.02		
	7400.80	Vertical	-39.42	10.21	5.32	-34.53		
	9251.00	Vertical	-42.77	11.36	6.02	-37.43		
	11101.20	Vertical	-44.29	14.52	6.68	-36.45		
LTE BAND 2 5MHz Middle	88.76	Vertical	-74.86	3.35	0.38	-71.89	-13	PASS
	3760.00	Vertical	-47.13	7.76	3.75	-43.12		
	5640.00	Vertical	-46.73	9.84	4.94	-41.83		
	7520.00	Vertical	-42.38	10.21	5.32	-37.49		
	9400.00	Vertical	-41.80	11.36	6.02	-36.46		
	11280.00	Vertical	-45.72	14.52	6.68	-37.88		
LTE BAND 2 5MHz Highest	88.56	Vertical	-74.82	3.35	0.38	-71.85	-13	PASS
	3819.60	Vertical	-46.73	7.79	3.53	-42.47		
	5729.40	Vertical	-41.23	9.88	5.02	-36.37		
	7639.20	Vertical	-37.46	10.25	5.54	-32.75		
	9549.00	Vertical	-44.26	11.38	6.16	-39.04		
	11458.80	Vertical	-46.68	14.56	6.72	-38.84		
LTE BAND 2 10MHz Lowest	87.23	Vertical	-74.86	3.35	0.38	-71.89	-13	PASS
	3700.40	Vertical	-46.07	7.76	3.75	-42.06		
	5550.60	Vertical	-46.87	9.84	4.94	-41.97		
	7400.80	Vertical	-39.37	10.21	5.32	-34.48		
	9251.00	Vertical	-42.72	11.36	6.02	-37.38		
	11101.20	Vertical	-44.24	14.52	6.68	-36.40		
LTE BAND 2 10MHz Middle	88.56	Vertical	-74.91	3.35	0.38	-71.94	-13	PASS
	3760.00	Vertical	-47.16	7.76	3.75	-43.15		
	5640.00	Vertical	-46.76	9.84	4.94	-41.86		
	7520.00	Vertical	-42.41	10.21	5.32	-37.52		
	9400.00	Vertical	-41.82	11.36	6.02	-36.48		
	11280.00	Vertical	-45.75	14.52	6.68	-37.91		
LTE BAND 2 10MHz Highest	88.54	Vertical	-74.87	3.35	0.38	-71.90	-13	PASS
	3819.60	Vertical	-46.76	7.79	3.53	-42.50		
	5729.40	Vertical	-41.26	9.88	5.02	-36.40		
	7639.20	Vertical	-37.48	10.25	5.54	-32.77		
	9549.00	Vertical	-44.29	11.38	6.16	-39.07		
	11458.80	Vertical	-46.71	14.56	6.72	-38.87		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 15MHz Lowest	87.41	Vertical	-74.68	3.35	0.38	-71.71	-13	PASS
	3700.40	Vertical	-45.75	7.76	3.75	-41.74		
	5550.60	Vertical	-46.85	9.84	4.94	-41.95		
	7400.80	Vertical	-39.36	10.21	5.32	-34.47		
	9251.00	Vertical	-42.71	11.36	6.02	-37.37		
	11101.20	Vertical	-44.22	14.52	6.68	-36.38		
LTE BAND 2 15MHz Middle	88.14	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	-46.66	9.84	4.94	-41.76		
	7520.00	Vertical	-42.32	10.21	5.32	-37.43		
	9400.00	Vertical	-41.74	11.36	6.02	-36.40		
	11280.00	Vertical	-45.65	14.52	6.68	-37.81		
LTE BAND 2 15MHz Highest	88.62	Vertical	-74.71	3.35	0.38	-71.74	-13	PASS
	3819.60	Vertical	-46.66	7.79	3.53	-42.40		
	5729.40	Vertical	-41.17	9.88	5.02	-36.31		
	7639.20	Vertical	-37.40	10.25	5.54	-32.69		
	9549.00	Vertical	-44.19	11.38	6.16	-38.97		
	11458.80	Vertical	-46.61	14.56	6.72	-38.77		
LTE BAND 2 20MHz Lowest	87.53	Vertical	-74.72	3.35	0.38	-71.75	-13	PASS
	3700.40	Vertical	-45.73	7.76	3.75	-41.72		
	5550.60	Vertical	-46.83	9.84	4.94	-41.93		
	7400.80	Vertical	-39.35	10.21	5.32	-34.46		
	9251.00	Vertical	-42.69	11.36	6.02	-37.35		
	11101.20	Vertical	-44.21	14.52	6.68	-36.37		
LTE BAND 2 20MHz Middle	88.65	Vertical	-74.72	3.35	0.38	-71.75	-13	PASS
	3760.00	Vertical	-47.04	7.76	3.75	-43.03		
	5640.00	Vertical	-46.64	9.84	4.94	-41.74		
	7520.00	Vertical	-42.30	10.21	5.32	-37.41		
	9400.00	Vertical	-41.72	11.36	6.02	-36.38		
	11280.00	Vertical	-45.63	14.52	6.68	-37.79		
LTE BAND 2 20MHz Highest	88.34	Vertical	-74.68	3.35	0.38	-71.71	-13	PASS
	3819.60	Vertical	-46.64	7.79	3.53	-42.38		
	5729.40	Vertical	-41.15	9.88	5.02	-36.29		
	7639.20	Vertical	-37.38	10.25	5.54	-32.67		
	9549.00	Vertical	-44.17	11.38	6.16	-38.95		
	11458.80	Vertical	-46.59	14.56	6.72	-38.75		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 1.4MHz Lowest	87.28	Vertical	-74.83	3.35	0.38	-71.86	-13	PASS
	3421.40	Vertical	-45.79	7.76	3.75	-41.78		
	5132.10	Vertical	-46.90	9.84	4.94	-42.00		
	6842.80	Vertical	-39.40	10.21	5.32	-34.51		
	8553.50	Vertical	-42.75	11.36	6.02	-37.41		
	10264.20	Vertical	-44.28	14.52	6.68	-36.44		
LTE BAND 4 1.4MHz Middle	88.21	Vertical	-74.83	3.35	0.38	-71.86	-13	PASS
	3465.00	Vertical	-47.10	7.76	3.75	-43.09		
	5197.50	Vertical	-46.71	9.84	4.94	-41.81		
	6930.00	Vertical	-42.36	10.21	5.32	-37.47		
	8662.50	Vertical	-41.77	11.36	6.02	-36.43		
	10395.00	Vertical	-45.70	14.52	6.68	-37.86		
LTE BAND 4 1.4MHz Highest	88.43	Vertical	-74.79	3.35	0.38	-71.82	-13	PASS
	3508.60	Vertical	-46.71	7.79	3.53	-42.45		
	5262.90	Vertical	-41.21	9.88	5.02	-36.35		
	7017.20	Vertical	-37.44	10.25	5.54	-32.73		
	8771.50	Vertical	-44.25	11.38	6.16	-39.03		
	10525.80	Vertical	-46.66	14.56	6.72	-38.82		
LTE BAND 4 3MHz Lowest	87.45	Vertical	-74.86	3.35	0.38	-71.89	-13	PASS
	3423.00	Vertical	-45.81	7.76	3.75	-41.80		
	5134.50	Vertical	-46.92	9.84	4.94	-42.02		
	6846.00	Vertical	-39.41	10.21	5.32	-34.52		
	8557.50	Vertical	-42.77	11.36	6.02	-37.43		
	10269.00	Vertical	-44.29	14.52	6.68	-36.45		
LTE BAND 4 3MHz Middle	88.21	Vertical	-74.88	3.35	0.38	-71.91	-13	PASS
	3508.60	Vertical	-47.12	7.76	3.75	-43.11		
	5262.90	Vertical	-46.73	9.84	4.94	-41.83		
	7017.20	Vertical	-42.38	10.21	5.32	-37.49		
	8771.50	Vertical	-41.79	11.36	6.02	-36.45		
	10525.80	Vertical	-45.72	14.52	6.68	-37.88		
LTE BAND 4 3MHz Highest	88.33	Vertical	-74.82	3.35	0.38	-71.85	-13	PASS
	3507.00	Vertical	-46.73	7.79	3.53	-42.47		
	5260.50	Vertical	-41.23	9.88	5.02	-36.37		
	7014.00	Vertical	-37.46	10.25	5.54	-32.75		
	8767.50	Vertical	-44.26	11.38	6.16	-39.04		
	10521.00	Vertical	-46.68	14.56	6.72	-38.84		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 5MHz Lowest	87.34	Vertical	-74.83	3.35	0.38	-71.86	-13	PASS
	3425.00	Vertical	-45.80	7.76	3.75	-41.79		
	5137.50	Vertical	-46.90	9.84	4.94	-42.00		
	6850.00	Vertical	-39.40	10.21	5.32	-34.51		
	8562.50	Vertical	-42.75	11.36	6.02	-37.41		
	10275.00	Vertical	-44.27	14.52	6.68	-36.43		
LTE BAND 4 5MHz Middle	88.24	Vertical	-74.83	3.35	0.38	-71.86	-13	PASS
	3423.00	Vertical	-47.11	7.76	3.75	-43.10		
	5134.50	Vertical	-46.71	9.84	4.94	-41.81		
	6846.00	Vertical	-42.37	10.21	5.32	-37.48		
	8557.50	Vertical	-41.78	11.36	6.02	-36.44		
	10269.00	Vertical	-45.70	14.52	6.68	-37.86		
LTE BAND 4 5MHz Highest	88.34	Vertical	-74.79	3.35	0.38	-71.82	-13	PASS
	3505.00	Vertical	-46.71	7.79	3.53	-42.45		
	5257.50	Vertical	-41.22	9.88	5.02	-36.36		
	7010.00	Vertical	-37.45	10.25	5.54	-32.74		
	8762.50	Vertical	-44.24	11.38	6.16	-39.02		
	10515.00	Vertical	-46.66	14.56	6.72	-38.82		
LTE BAND 4 10MHz Lowest	87.21	Vertical	-74.77	3.35	0.38	-71.80	-13	PASS
	3430.00	Vertical	-45.76	7.76	3.75	-41.75		
	5145.00	Vertical	-46.87	9.84	4.94	-41.97		
	6860.00	Vertical	-39.38	10.21	5.32	-34.49		
	8575.00	Vertical	-42.72	11.36	6.02	-37.38		
	10290.00	Vertical	-44.24	14.52	6.68	-36.40		
LTE BAND 4 10MHz Middle	88.41	Vertical	-74.72	3.35	0.38	-71.75	-13	PASS
	3505.00	Vertical	-47.08	7.76	3.75	-43.07		
	5257.50	Vertical	-46.68	9.84	4.94	-41.78		
	7010.00	Vertical	-42.34	10.21	5.32	-37.45		
	8762.50	Vertical	-41.75	11.36	6.02	-36.41		
	10515.00	Vertical	-45.66	14.52	6.68	-37.82		
LTE BAND 4 10MHz Highest	88.34	Vertical	-74.73	3.35	0.38	-71.76	-13	PASS
	3500.00	Vertical	-46.68	7.79	3.53	-42.42		
	5250.00	Vertical	-41.19	9.88	5.02	-36.33		
	7000.00	Vertical	-37.42	10.25	5.54	-32.71		
	8750.00	Vertical	-44.21	11.38	6.16	-38.99		
	10500.00	Vertical	-46.63	14.56	6.72	-38.79		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 15MHz Lowest	87.32	Vertical	-74.73	3.35	0.38	-71.76	-13	PASS
	3435.00	Vertical	-45.73	7.76	3.75	-41.72		
	5152.50	Vertical	-46.84	9.84	4.94	-41.94		
	6870.00	Vertical	-39.36	10.21	5.32	-34.47		
	8587.50	Vertical	-42.70	11.36	6.02	-37.36		
	10305.00	Vertical	-44.22	14.52	6.68	-36.38		
LTE BAND 4 15MHz Middle	88.32	Vertical	-74.73	3.35	0.38	-71.76	-13	PASS
	3505.00	Vertical	-47.05	7.76	3.75	-43.04		
	5257.50	Vertical	-46.66	9.84	4.94	-41.76		
	7010.00	Vertical	-42.31	10.21	5.32	-37.42		
	8762.50	Vertical	-41.73	11.36	6.02	-36.39		
	10515.00	Vertical	-45.63	14.52	6.68	-37.79		
LTE BAND 4 15MHz Highest	88.32	Vertical	-74.69	3.35	0.38	-71.72	-13	PASS
	3495.00	Vertical	-46.66	7.79	3.53	-42.40		
	5242.50	Vertical	-41.16	9.88	5.02	-36.30		
	6990.00	Vertical	-37.39	10.25	5.54	-32.68		
	8737.50	Vertical	-44.19	11.38	6.16	-38.97		
	10485.00	Vertical	-46.61	14.56	6.72	-38.77		
LTE BAND 4 20MHz Lowest	87.34	Vertical	-74.77	3.35	0.38	-71.80	-13	PASS
	3440.00	Vertical	-45.76	7.76	3.75	-41.75		
	5160.00	Vertical	-46.86	9.84	4.94	-41.96		
	6880.00	Vertical	-39.37	10.21	5.32	-34.48		
	8600.00	Vertical	-42.72	11.36	6.02	-37.38		
	10320.00	Vertical	-44.24	14.52	6.68	-36.40		
LTE BAND 4 20MHz Middle	88.45	Vertical	-74.82	3.35	0.38	-71.85	-13	PASS
	3505.00	Vertical	-47.07	7.76	3.75	-43.06		
	5257.50	Vertical	-46.68	9.84	4.94	-41.78		
	7010.00	Vertical	-42.33	10.21	5.32	-37.44		
	8762.50	Vertical	-41.75	11.36	6.02	-36.41		
	10515.00	Vertical	-45.66	14.52	6.68	-37.82		
LTE BAND 4 20MHz Highest	88.56	Vertical	-74.73	3.35	0.38	-71.76	-13	PASS
	3490.00	Vertical	-46.68	7.79	3.53	-42.42		
	5235.00	Vertical	-41.18	9.88	5.02	-36.32		
	6980.00	Vertical	-37.41	10.25	5.54	-32.70		
	8725.00	Vertical	-44.21	11.38	6.16	-38.99		
	10470.00	Vertical	-46.63	14.56	6.72	-38.79		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 5 1.4MHz Lowest	87.45	Vertical	-74.79	3.35	0.38	-71.82	-13	PASS
	3700.40	Vertical	-45.78	7.76	3.75	-41.77		
	5550.60	Vertical	-46.88	9.84	4.94	-41.98		
	7400.80	Vertical	-39.38	10.21	5.32	-34.49		
	9251.00	Vertical	-42.73	11.36	6.02	-37.39		
	11101.20	Vertical	-44.25	14.52	6.68	-36.41		
LTE BAND 5 1.4MHz Middle	88.21	Vertical	-74.79	3.35	0.38	-71.82	-13	PASS
	3760.00	Vertical	-47.09	7.76	3.75	-43.08		
	5640.00	Vertical	-46.69	9.84	4.94	-41.79		
	7520.00	Vertical	-42.34	10.21	5.32	-37.45		
	9400.00	Vertical	-41.76	11.36	6.02	-36.42		
	11280.00	Vertical	-45.68	14.52	6.68	-37.84		
LTE BAND 5 1.4MHz Highest	88.77	Vertical	-74.75	3.35	0.38	-71.78	-13	PASS
	3819.60	Vertical	-46.69	7.79	3.53	-42.43		
	5729.40	Vertical	-41.19	9.88	5.02	-36.33		
	7639.20	Vertical	-37.42	10.25	5.54	-32.71		
	9549.00	Vertical	-44.22	11.38	6.16	-39.00		
	11458.80	Vertical	-46.64	14.56	6.72	-38.80		
LTE BAND 5 3MHz Lowest	87.98	Vertical	-74.74	3.35	0.38	-71.77	-13	PASS
	3700.40	Vertical	-45.74	7.76	3.75	-41.73		
	5550.60	Vertical	-46.85	9.84	4.94	-41.95		
	7400.80	Vertical	-39.36	10.21	5.32	-34.47		
	9251.00	Vertical	-42.70	11.36	6.02	-37.36		
	11101.20	Vertical	-44.22	14.52	6.68	-36.38		
LTE BAND 5 3MHz Middle	88.78	Vertical	-74.87	3.35	0.38	-71.90	-13	PASS
	3760.00	Vertical	-47.14	7.76	3.75	-43.13		
	5640.00	Vertical	-46.74	9.84	4.94	-41.84		
	7520.00	Vertical	-42.39	10.21	5.32	-37.50		
	9400.00	Vertical	-41.80	11.36	6.02	-36.46		
	11280.00	Vertical	-45.72	14.52	6.68	-37.88		
LTE BAND 5 3MHz Highest	88.67	Vertical	-74.83	3.35	0.38	-71.86	-13	PASS
	3819.60	Vertical	-46.74	7.79	3.53	-42.48		
	5729.40	Vertical	-41.23	9.88	5.02	-36.37		
	7639.20	Vertical	-37.46	10.25	5.54	-32.75		
	9549.00	Vertical	-44.27	11.38	6.16	-39.05		
	11458.80	Vertical	-46.69	14.56	6.72	-38.85		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 5 5MHz Lowest	87.66	Vertical	-74.35	3.35	0.38	-71.38	-13	PASS
	3700.40	Vertical	-45.50	7.76	3.75	-41.49		
	5550.60	Vertical	-46.60	9.84	4.94	-41.70		
	7400.80	Vertical	-39.15	10.21	5.32	-34.26		
	9251.00	Vertical	-42.48	11.36	6.02	-37.14		
	11101.20	Vertical	-43.99	14.52	6.68	-36.15		
LTE BAND 5 5MHz Middle	88.32	Vertical	-74.35	3.35	0.38	-71.38	-13	PASS
	3760.00	Vertical	-46.81	7.76	3.75	-42.80		
	5640.00	Vertical	-46.42	9.84	4.94	-41.52		
	7520.00	Vertical	-42.09	10.21	5.32	-37.20		
	9400.00	Vertical	-41.51	11.36	6.02	-36.17		
	11280.00	Vertical	-45.40	14.52	6.68	-37.56		
LTE BAND 5 5MHz Highest	88.32	Vertical	-74.31	3.35	0.38	-71.34	-13	PASS
	3819.60	Vertical	-46.42	7.79	3.53	-42.16		
	5729.40	Vertical	-40.95	9.88	5.02	-36.09		
	7639.20	Vertical	-37.20	10.25	5.54	-32.49		
	9549.00	Vertical	-43.96	11.38	6.16	-38.74		
	11458.80	Vertical	-46.37	14.56	6.72	-38.53		
LTE BAND 5 10MHz Lowest	87.23	Vertical	-74.38	3.35	0.38	-71.41	-13	PASS
	3700.40	Vertical	-45.52	7.76	3.75	-41.51		
	5550.60	Vertical	-46.61	9.84	4.94	-41.71		
	7400.80	Vertical	-39.16	10.21	5.32	-34.27		
	9251.00	Vertical	-42.50	11.36	6.02	-37.16		
	11101.20	Vertical	-44.01	14.52	6.68	-36.17		
LTE BAND 5 10MHz Middle	88.21	Vertical	-74.45	3.35	0.38	-71.48	-13	PASS
	3760.00	Vertical	-46.87	7.76	3.75	-42.86		
	5640.00	Vertical	-46.47	9.84	4.94	-41.57		
	7520.00	Vertical	-42.16	10.21	5.32	-37.27		
	9400.00	Vertical	-41.57	11.36	6.02	-36.23		
	11280.00	Vertical	-45.46	14.52	6.68	-37.62		
LTE BAND 5 10MHz Highest	88.15	Vertical	-74.41	3.35	0.38	-71.44	-13	PASS
	3819.60	Vertical	-46.47	7.79	3.53	-42.21		
	5729.40	Vertical	-41.01	9.88	5.02	-36.15		
	7639.20	Vertical	-37.26	10.25	5.54	-32.55		
	9549.00	Vertical	-44.02	11.38	6.16	-38.80		
	11458.80	Vertical	-46.42	14.56	6.72	-38.58		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 7 5MHz Lowest	87.89	Vertical	-74.62	3.35	0.38	-71.65	-13	PASS
	5005.00	Vertical	-45.64	7.76	3.75	-41.63		
	7507.50	Vertical	-46.74	9.84	4.94	-41.84		
	10010.00	Vertical	-39.27	10.21	5.32	-34.38		
	12512.50	Vertical	-42.61	11.36	6.02	-37.27		
	15015.00	Vertical	-44.13	14.52	6.68	-36.29		
LTE BAND 7 5MHz Middle	87.87	Vertical	-74.58	3.35	0.38	-71.61	-13	PASS
	5070.00	Vertical	-46.96	7.76	3.75	-42.95		
	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	-36.30		
	15210.00	Vertical	-45.54	14.52	6.68	-37.70		
LTE BAND 7 5MHz Highest	88.87	Vertical	-74.54	3.35	0.38	-71.57	-13	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	-44.10	11.38	6.16	-38.88		
	15405.00	Vertical	-46.50	14.56	6.72	-38.66		
LTE BAND 7 10MHz Lowest	87.53	Vertical	-73.74	3.35	0.38	-70.77	-13	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	-13	PASS
	5070.00	Vertical	-46.99	7.76	3.75	-42.98		
	7605.00	Vertical	-46.59	9.84	4.94	-41.69		
	10140.00	Vertical	-42.26	10.21	5.32	-37.37		
	12675.00	Vertical	-41.68	11.36	6.02	-36.34		
	15210.00	Vertical	-45.58	14.52	6.68	-37.74		
LTE BAND 7 10MHz Highest	88.23	Vertical	-74.60	3.35	0.38	-71.63	-13	PASS
	5130.00	Vertical	-46.59	7.79	3.53	-42.33		
	7695.00	Vertical	-41.11	9.88	5.02	-36.25		
	10260.00	Vertical	-37.35	10.25	5.54	-32.64		
	12825.00	Vertical	-44.14	11.38	6.16	-38.92		
	15390.00	Vertical	-46.54	14.56	6.72	-38.70		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 7 15MHz Lowest	87.12	Vertical	-74.32	3.35	0.38	-71.35	-13	PASS
	5015.00	Vertical	-45.49	7.76	3.75	-41.48		
	7522.50	Vertical	-46.58	9.84	4.94	-41.68		
	10030.00	Vertical	-39.14	10.21	5.32	-34.25		
	12537.50	Vertical	-42.46	11.36	6.02	-37.12		
	15045.00	Vertical	-43.98	14.52	6.68	-36.14		
LTE BAND 7 15MHz Middle	88.87	Vertical	-74.32	3.35	0.38	-71.35	-13	PASS
	5070.00	Vertical	-46.79	7.76	3.75	-42.78		
	7605.00	Vertical	-46.39	9.84	4.94	-41.49		
	10140.00	Vertical	-42.08	10.21	5.32	-37.19		
	12675.00	Vertical	-41.50	11.36	6.02	-36.16		
	15210.00	Vertical	-45.39	14.52	6.68	-37.55		
LTE BAND 7 15MHz Highest	88.29	Vertical	-74.28	3.35	0.38	-71.31	-13	PASS
	5125.00	Vertical	-46.39	7.79	3.53	-42.13		
	7687.50	Vertical	-40.94	9.88	5.02	-36.08		
	10250.00	Vertical	-37.20	10.25	5.54	-32.49		
	12812.50	Vertical	-43.95	11.38	6.16	-38.73		
	15375.00	Vertical	-46.34	14.56	6.72	-38.50		
LTE BAND 7 20MHz Lowest	87.81	Vertical	-74.29	3.35	0.38	-71.32	-13	PASS
	5020.00	Vertical	-45.47	7.76	3.75	-41.46		
	7530.00	Vertical	-46.56	9.84	4.94	-41.66		
	10040.00	Vertical	-39.12	10.21	5.32	-34.23		
	12550.00	Vertical	-42.45	11.36	6.02	-37.11		
	15060.00	Vertical	-43.96	14.52	6.68	-36.12		
LTE BAND 7 20MHz Middle	88.56	Vertical	-74.49	3.35	0.38	-71.52	-13	PASS
	5070.00	Vertical	-46.89	7.76	3.75	-42.88		
	7605.00	Vertical	-46.49	9.84	4.94	-41.59		
	10140.00	Vertical	-42.18	10.21	5.32	-37.29		
	12675.00	Vertical	-41.60	11.36	6.02	-36.26		
	15210.00	Vertical	-45.49	14.52	6.68	-37.65		
LTE BAND 7 20MHz Highest	88.22	Vertical	-74.45	3.35	0.38	-71.48	-13	PASS
	5120.00	Vertical	-46.49	7.79	3.53	-42.23		
	7680.00	Vertical	-41.04	9.88	5.02	-36.18		
	10240.00	Vertical	-37.27	10.25	5.54	-32.56		
	12800.00	Vertical	-44.05	11.38	6.16	-38.83		
	15360.00	Vertical	-46.44	14.56	6.72	-38.60		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 66 1.4MHz Lowest	87.18	Vertical	-74.58	3.35	0.38	-71.61	-13	PASS
	3421.40	Vertical	-45.64	7.76	3.75	-41.63		
	5132.10	Vertical	-46.74	9.84	4.94	-41.84		
	6842.80	Vertical	-39.27	10.21	5.32	-34.38		
	8553.50	Vertical	-42.61	11.36	6.02	-37.27		
	10264.20	Vertical	-44.13	14.52	6.68	-36.29		
LTE BAND 66 1.4MHz Middle	88.32	Vertical	-74.58	3.35	0.38	-71.61	-13	PASS
	3490.00	Vertical	-46.96	7.76	3.75	-42.95		
	5235.00	Vertical	-46.55	9.84	4.94	-41.65		
	6980.00	Vertical	-42.23	10.21	5.32	-37.34		
	8725.00	Vertical	-41.64	11.36	6.02	-36.30		
	10470.00	Vertical	-45.54	14.52	6.68	-37.70		
LTE BAND 66 1.4MHz Highest	88.11	Vertical	-74.54	3.35	0.38	-71.57	-13	PASS
	3558.60	Vertical	-46.55	7.79	3.53	-42.29		
	5337.90	Vertical	-41.08	9.88	5.02	-36.22		
	7117.20	Vertical	-37.32	10.25	5.54	-32.61		
	8896.50	Vertical	-44.10	11.38	6.16	-38.88		
	10675.80	Vertical	-46.50	14.56	6.72	-38.66		
LTE BAND 66 3MHz Lowest	87.32	Vertical	-74.60	3.35	0.38	-71.63	-13	PASS
	3423.00	Vertical	-45.66	7.76	3.75	-41.65		
	5134.50	Vertical	-46.76	9.84	4.94	-41.86		
	6846.00	Vertical	-39.28	10.21	5.32	-34.39		
	8557.50	Vertical	-42.62	11.36	6.02	-37.28		
	10269.00	Vertical	-44.14	14.52	6.68	-36.30		
LTE BAND 66 3MHz Middle	88.21	Vertical	-74.62	3.35	0.38	-71.65	-13	PASS
	3490.00	Vertical	-46.98	7.76	3.75	-42.97		
	5235.00	Vertical	-46.59	9.84	4.94	-41.69		
	6980.00	Vertical	-42.25	10.21	5.32	-37.36		
	8725.00	Vertical	-41.67	11.36	6.02	-36.33		
	10470.00	Vertical	-45.58	14.52	6.68	-37.74		
LTE BAND 66 3MHz Highest	88.76	Vertical	-74.59	3.35	0.38	-71.62	-13	PASS
	3557.00	Vertical	-46.59	7.79	3.53	-42.33		
	5335.50	Vertical	-41.10	9.88	5.02	-36.24		
	7114.00	Vertical	-37.34	10.25	5.54	-32.63		
	8892.50	Vertical	-44.12	11.38	6.16	-38.90		
	10671.00	Vertical	-46.54	14.56	6.72	-38.70		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 66 5MHz Lowest	87.45	Vertical	-74.47	3.35	0.38	-71.50	-13	PASS
	3425.00	Vertical	-45.58	7.76	3.75	-41.57		
	5137.50	Vertical	-46.68	9.84	4.94	-41.78		
	6850.00	Vertical	-39.21	10.21	5.32	-34.32		
	8562.50	Vertical	-42.55	11.36	6.02	-37.21		
	10275.00	Vertical	-44.06	14.52	6.68	-36.22		
LTE BAND 66 5MHz Middle	88.65	Vertical	-74.47	3.35	0.38	-71.50	-13	PASS
	3490.00	Vertical	-46.88	7.76	3.75	-42.87		
	5235.00	Vertical	-46.49	9.84	4.94	-41.59		
	6980.00	Vertical	-42.16	10.21	5.32	-37.27		
	8725.00	Vertical	-41.58	11.36	6.02	-36.24		
	10470.00	Vertical	-45.48	14.52	6.68	-37.64		
LTE BAND 66 5MHz Highest	88.36	Vertical	-74.43	3.35	0.38	-71.46	-13	PASS
	3555.00	Vertical	-46.49	7.79	3.53	-42.23		
	5332.50	Vertical	-41.02	9.88	5.02	-36.16		
	7110.00	Vertical	-37.26	10.25	5.54	-32.55		
	8887.50	Vertical	-44.03	11.38	6.16	-38.81		
	10665.00	Vertical	-46.44	14.56	6.72	-38.60		
LTE BAND 66 10MHz Lowest	87.11	Vertical	-74.49	3.35	0.38	-71.52	-13	PASS
	3430.00	Vertical	-45.59	7.76	3.75	-41.58		
	5145.00	Vertical	-46.69	9.84	4.94	-41.79		
	6860.00	Vertical	-39.22	10.21	5.32	-34.33		
	8575.00	Vertical	-42.63	11.36	6.02	-37.29		
	10290.00	Vertical	-44.15	14.52	6.68	-36.31		
LTE BAND 66 10MHz Middle	88.21	Vertical	-74.51	3.35	0.38	-71.54	-13	PASS
	3490.00	Vertical	-46.91	7.76	3.75	-42.90		
	5235.00	Vertical	-46.51	9.84	4.94	-41.61		
	6980.00	Vertical	-42.18	10.21	5.32	-37.29		
	8725.00	Vertical	-41.60	11.36	6.02	-36.26		
	10470.00	Vertical	-45.50	14.52	6.68	-37.66		
LTE BAND 66 10MHz Highest	88.54	Vertical	-74.47	3.35	0.38	-71.50	-13	PASS
	3550.00	Vertical	-46.51	7.79	3.53	-42.25		
	5325.00	Vertical	-41.04	9.88	5.02	-36.18		
	7100.00	Vertical	-37.28	10.25	5.54	-32.57		
	8875.00	Vertical	-44.05	11.38	6.16	-38.83		
	10650.00	Vertical	-46.46	14.56	6.72	-38.62		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 66 20MHz Lowest	87.18	Vertical	-73.55	3.35	0.38	-70.58	-13	PASS
	3440.00	Vertical	-45.01	7.76	3.75	-41.00		
	5160.00	Vertical	-46.11	9.84	4.94	-41.21		
	6880.00	Vertical	-38.73	10.21	5.32	-33.84		
	8600.00	Vertical	-42.03	11.36	6.02	-36.69		
	10320.00	Vertical	-43.52	14.52	6.68	-35.68		
LTE BAND 66 20MHz Middle	88.43	Vertical	-73.55	3.35	0.38	-70.58	-13	PASS
	3490.00	Vertical	-46.31	7.76	3.75	-42.30		
	5235.00	Vertical	-45.92	9.84	4.94	-41.02		
	6980.00	Vertical	-41.64	10.21	5.32	-36.75		
	8725.00	Vertical	-41.07	11.36	6.02	-35.73		
	10470.00	Vertical	-44.91	14.52	6.68	-37.07		
LTE BAND 66 20MHz Highest	88.12	Vertical	-73.51	3.35	0.38	-70.54	-13	PASS
	3540.00	Vertical	-45.92	7.79	3.53	-41.66		
	5310.00	Vertical	-40.51	9.88	5.02	-35.65		
	7080.00	Vertical	-36.81	10.25	5.54	-32.10		
	8850.00	Vertical	-43.49	11.38	6.16	-38.27		
	10620.00	Vertical	-45.87	14.56	6.72	-38.03		



6. PHOTOGRAPHS OF TEST SET-UP

Please see setup photo.

7. PHOTOGRAPHS OF THE EUT

Please see external photo and internal photo.

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