



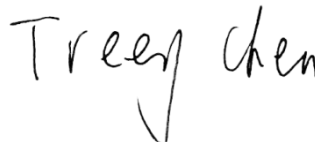
FCC Radio Test Report

FCC ID: ZMOLE270LA

This report concerns: Class II permissive Change

Project No. : 2407C095A
Equipment : LTE Module
Brand Name : Fibocom
Test Model : LE270-LA
Series Model : N/A
Applicant : Fibocom Wireless Inc.
Address : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer : Fibocom Wireless Inc.
Address : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Factory : Fibocom Wireless Inc.
Address : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Date of Receipt : Aug. 07, 2024
Mar. 24, 2025
Date of Test : Aug. 09, 2024 ~ Aug. 29, 2024
Mar. 25, 2025 ~ Apr. 08, 2025
Issued Date : Apr. 17, 2025
Report Version : R00
Test Sample : Engineering Sample No.: SSL2024080742 for conducted, DG2025032449 for radiated.
Standard(s) : 47 CFR FCC Part 27 Subpart L
47 CFR FCC Part 27 Subpart M

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.



Prepared by : Treay Chen



Approved by : Steven Lu

Room 108-116, 309-310, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

Table of Contents	Page
REPORT ISSUED HISTORY	5
1 . APPLICABLE STANDARDS	6
2 . SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
2.3 TEST ENVIRONMENT CONDITIONS	8
3 . GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	14
3.3 BLOCK DIGRAM SHOWING THECONFIGURATIONOFSYSTEMTESTED	19
2.4 DESCRIPTION OF SUPPORT UNITS	19
4 . TEST RESULT	20
4.1 OUTPUT POWER MEASUREMENT	20
4.1.1 LIMIT	20
4.1.2 TEST PROCEDURE	20
4.1.3 TEST SETUP LAYOUT	20
4.1.4 TEST DEVIATION	20
4.1.5 TEST RESULTS	20
4.2 OCCUPIED BANDWIDTH MEASUREMENT	21
4.2.1 TEST PROCEDURE	21
4.2.2 TEST SETUP LAYOUT	21
4.2.3 TEST DEVIATION	21
4.2.4 TEST RESULTS	21
4.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	22
4.3.1 LIMIT	22
4.3.2 TEST PROCEDURES	22
4.3.3 TEST SETUP LAYOUT	22
4.3.4 TEST DEVIATION	22
4.3.5 TEST RESULTS	22
4.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT	23
4.4.1 LIMIT	23
4.4.2 TEST PROCEDURES	23
4.4.3 TEST SETUP LAYOUT	24
4.4.4 TEST RESULTS (9KHZ TO 30MHZ)	25
4.4.5 TEST RESULTS (30MHZ TO 1000MHZ)	25
4.4.6 TEST RESULTS (ABOVE 1000MHZ)	25
4.5 BAND EDGE MEASUREMENT	26
4.5.1 LIMIT	26

Table of Contents	Page
4.5.2 TEST PROCEDURES	26
4.5.3 TEST SETUP LAYOUT	26
4.5.4 TEST DEVIATION	26
4.5.5 TEST RESULTS	26
4.6 PEAK TO AVERAGE RATIO MEASUREMENT	27
4.6.1 LIMIT	27
4.6.2 TEST PROCEDURES	27
4.6.3 TEST SETUP LAYOUT	27
4.6.4 TEST DEVIATION	27
4.6.5 TEST RESULTS	27
4.7 FREQUENCY STABILITY MEASUREMENT	28
4.7.1 LIMIT	28
4.7.2 TEST PROCEDURES	28
4.7.3 TEST SETUP LAYOUT	28
4.7.4 TEST DEVIATION	28
4.7.5 TEST RESULTS	28
4. LIST OF MEASUREMENT EQUIPMENTS	29
5. EUT TEST PHOTO	32
APPENDIX A - OUTPUT POWER	36
APPENDIX B - OCCUPIED BANDWIDTH	61
APPENDIX C - CONDUCTED SPURIOUS EMISSIONS	86
APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)	92
APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1GHZ)	94
APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1GHZ)	101
APPENDIX G - BAND EDGE	108
APPENDIX H - PEAK TO AVERAGE RATIO	129
APPENDIX I - FREQUENCY STABILITY	150

REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2407C095A	R00	This is a supplementary report to the original test report (BTL-FCCP-3-2407C095). - Added a new power IC and the location of the capacitor and resistor has changed. The other hardware is completely identical. (There is no change in the RF part.) - Changed the software version. - Added the seven antennas (Ant.2~8). - Changed the EIRP to Max. conducted power in section 3.1. Based on above changes described, so used the antennas with the highest gain in each frequency band to test radiated spurious emissions and recorded in this report. The conducted power was unchanged, EIRP with worst new antenna was updated. The radiated spurious emissions and EIRP test results of original antenna please refer to original report.	Apr. 17, 2025	Valid

1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ANSI C63.26-2015

The following reference test guidance is not within the scope of accreditation of A2LA:

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 27 Subpart L, M & Part 2			
Standard(s) Section	Test Item	Judgment	Remark
2.1046	Output Power	PASS	-----
27.50(d)(4) 27.50(h)(2)	Equivalent Isotropic Radiated Power & Equivalent Radiated Power	PASS	-----
2.1049	Occupied Bandwidth	PASS	-----
2.1051 27.53(h) 27.53(m)(4)&(m)(6)	Conducted Spurious Emissions	PASS	-----
2.1053 27.53(h) 27.53(m)(4)&(m)(6)	Radiated Spurious Emissions	PASS	-----
2.1051 27.53(h) 27.53(m)(4)&(m)(6)	Band Edge Measurements	PASS	-----
27.50(d)(5)	Peak To Average Ratio	PASS	-----
2.1055 27.54	Frequency Stability	PASS	-----

Note:

(1) "N/A" denotes test is not applicable in this test report.

2.1 TEST FACILITY

For Radiated items:

The test facilities used to collect the test data in this report is at the location of 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

For other items:

The test facilities used to collect the test data in this report is at the location of Room 108-116, 309-310, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U_i (dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U_i (dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

Test Site	Method	Measurement Frequency Range	U_i (dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	U_i (dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36

B. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	±1.74 %
Maximum Output Power	±0.87 dB
Frequency Stability	±53.10Hz
Temperature	±0.47 °C
Time	±1.37%

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
Output Power & EIRP	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Occupied Bandwidth	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Conducted Spurious Emissions	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Radiated Spurious Emissions (9 kHz to 30 MHz)	20°C	50%	DC 3.8V	Zonda Cheng	Apr. 02, 2025
Radiated Spurious Emissions (30 MHz to 1000 MHz)	23°C	42%	DC 3.8V	Calvin Wen	Apr. 04, 2025
Radiated Spurious Emissions (Above 1000 MHz)	23°C	42%	DC 3.8V	Calvin Wen	Apr. 04, 2025
Band Edge	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Peak to Average Ratio	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Frequency Stability	Normal & Extreme	49%	Normal & Extreme	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	LTE Module			
Brand Name	Fibocom			
Test Model	LE270-LA			
Series Model	N/A			
Model Difference(s)	N/A			
Hardware Version	V1.2			
Software Version	12007.7001.00.04.46.01			
Power Source	DC voltage supplied from external power supply.			
Power Rating	DC 3.4V - 4.5V, Typical: 3.8V			
IMEI No.	Conducted	868317070000764		
	Radiated	868317070010060		
Modulation Type	LTE		UL: QPSK, 16QAM DL: QPSK, 16QAM, 64QAM	
Max. conducted power	LTE	Channel Bandwidth (MHz)	QPSK	16QAM
	Band 4	1.4	24.48	24.13
		3	24.64	23.94
		5	24.89	24.32
		10	24.69	24.08
		15	24.47	23.90
		20	24.55	23.93
	Band 7	5	24.88	24.34
		10	24.86	24.13
		15	25.05	24.47
		20	24.84	24.38
	Band 38	5	24.60	24.13
		10	24.60	24.03
		15	24.55	23.95
		20	24.61	23.81
	Band 41	5	24.97	23.99
		10	25.01	24.19
		15	24.92	24.22
		20	24.94	24.19
	Band 66	1.4	24.71	23.95
		3	24.69	24.06
		5	24.97	24.41
		10	24.87	24.16
		15	24.61	23.85
		20	24.56	23.94

Note:

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

2. Channel List:

LTE Band 4(UL: 1710-1755MHz, DL: 2110-2155MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
	5	19975	1712.5	1975	2112.5
	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
High Range	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
	5	20375	1752.5	2375	2152.5
	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1740	2300	2145

LTE Band 7(UL: 2500-2570MHz, DL: 2620-2690MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	5	20775	2502.5	2775	2622.5
	10	20800	2505	2800	2625
	15	20825	2507.5	2825	2627.5
	20	20850	2510	2850	2630
Mid Range	5/10/15/20	21100	2535	3100	2655
High Range	5	21425	2567.5	3425	2687.5
	10	21400	2565	3400	2685
	15	21375	2562.5	3375	2682.5
	20	21350	2560	3350	2680

LTE Band 38(UL/DL: 2570-2620MHz)			
Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)
Low Range	5	37775	2572.5
	10	37800	2575
	15	37825	2577.5
	20	37850	2580
Mid Range	5/10/15/20	38000	2600
High Range	5	38225	2617.5
	10	38200	2615
	15	38175	2612.5
	20	38150	2610

LTE Band 41(UL/DL: 2496-2690MHz)			
Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)
Low Range	5	39675	2498.5
	10	39700	2501.0
	15	39725	2503.5
	20	39750	2506.0
Mid Range	5/10/15/20	40620	2593
High Range	5	41565	2687.5
	10	41540	2685.0
	15	41515	2682.5
	20	41490	2680.0

LTE Band 66(UL: 1710-1780MHz, DL: 2110-2200MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	131979	1710.7	66443	2110.7
	3	131987	1711.5	66451	2111.5
	5	131997	1712.5	66461	2112.5
	10	132022	1715	66486	2115
	15	132047	1717.5	66511	2117.5
	20	132072	1720	66536	2120
Mid Range	1.4/3/5/10/15/20	132322	1745	66786	2145
High Range	1.4	132665	1779.3	67129	2179.3
	3	132657	1778.5	67121	2178.5
	5	132647	1777.5	67111	2177.5
	10	132622	1775	67086	2175
	15	132597	1772.5	67061	2172.5
	20	132572	1770	67036	2170

3. Table for Filed Antenna:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
1		GHT-019A	Dipole	SMA Male J	2.98	LTE Band 4
					2.21	LTE Band 7
					1.71	LTE Band 38
					2.21	LTE Band 41
					2.98	LTE Band 66
2		F-0Y-31-0116-001-K0	FPC	IPEX	2.26	LTE Band 4
					3.39	LTE Band 7
					3.5	LTE Band 38
					3.64	LTE Band 41
					2.26	LTE Band 66
3		F-0Y-31-0116-002-K0	FPC	IPEX	2.83	LTE Band 4
					3	LTE Band 7
					1.83	LTE Band 38
					3.36	LTE Band 41
					3.51	LTE Band 66
4	Kenbotong	TQX-071427HK22	Dipole	IPEX-1	3.49	LTE Band 4
					3.4	LTE Band 7
					3.4	LTE Band 38
					3.7	LTE Band 41
					3.96	LTE Band 66
5	Kenbotong	KIT-HK23-PT24-4G	Dipole	IPEX-1	2.59	LTE Band 4
					3.64	LTE Band 7
					3.18	LTE Band 38
					3.64	LTE Band 41
					2.79	LTE Band 66
6		F-0Y-31-0166-001-K0	FPC	IPEX	3.6	LTE Band 4
					4.71	LTE Band 7
					4.71	LTE Band 38
					4.71	LTE Band 41
					3.6	LTE Band 66
7	Kenbotong	TQX-071427HK22-L	Dipole	IPEX-1	2.65	LTE Band 4
					2.27	LTE Band 7
					2.49	LTE Band 38
					3.68	LTE Band 41
					2.65	LTE Band 66
8	HEDA	HD0255-02-A01	FPC	IPEX-1	0.2	LTE Band 4
					0.6	LTE Band 7
					-0.3	LTE Band 38
					0.6	LTE Band 41
					0.7	LTE Band 66

Note:

- (1) The antenna gain is provided by the manufacturer.
- (2) The antennas are not attached when sales.

4. The UE capability is category 1, and the maximum RB Number is 27 when the modulation is 16QAM, so for the bandwidth of 10MHz,15MHz and 20MHz only tested to 27 RB when the modulation is 16QAM.

3.2 DESCRIPTION OF TEST MODES

Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

LTE BAND 4 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1RB/8RB/15RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1RB/25RB/50RB
				16QAM	1RB/25RB/27RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1RB/36RB/75RB
				16QAM	1RB/27RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1RB/50RB/100RB
				16QAM	1RB/27RB
Occupied Bandwidth	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	6RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	15RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	25RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK	50RB
				16QAM	27RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK	75RB
				16QAM	27RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK	100RB
				16QAM	27RB
Conducted Spurious Emissions	19957 to 20393	20175	1.4MHz	QPSK	1RB
	19975 to 20375	20175	5MHz	QPSK	1RB
	20050 to 20300	20175	20MHz	QPSK	1RB
Radiated Spurious Emissions	19957 to 20393	20175	1.4MHz	QPSK	1RB
	19975 to 20375	20175	5MHz	QPSK	1RB
	20050 to 20300	20175	20MHz	QPSK	1RB
Band Edge	19957 to 20393	19957, 20393	1.4MHz	QPSK	1RB/6RB
	19965 to 20385	19965, 20385	3MHz	QPSK	1RB/15RB
	19975 to 20375	19975, 20375	5MHz	QPSK	1RB/25RB
	20000 to 20350	20000, 20350	10MHz	QPSK	1RB/50RB
	20025 to 20325	20025, 20325	15MHz	QPSK	1RB/75RB
	20050 to 20300	20050, 20300	20MHz	QPSK	1RB/100RB
Peak To Average Ratio	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1RB
Frequency Stability	20050 to 20300	20050, 20300	20MHz	QPSK	100RB

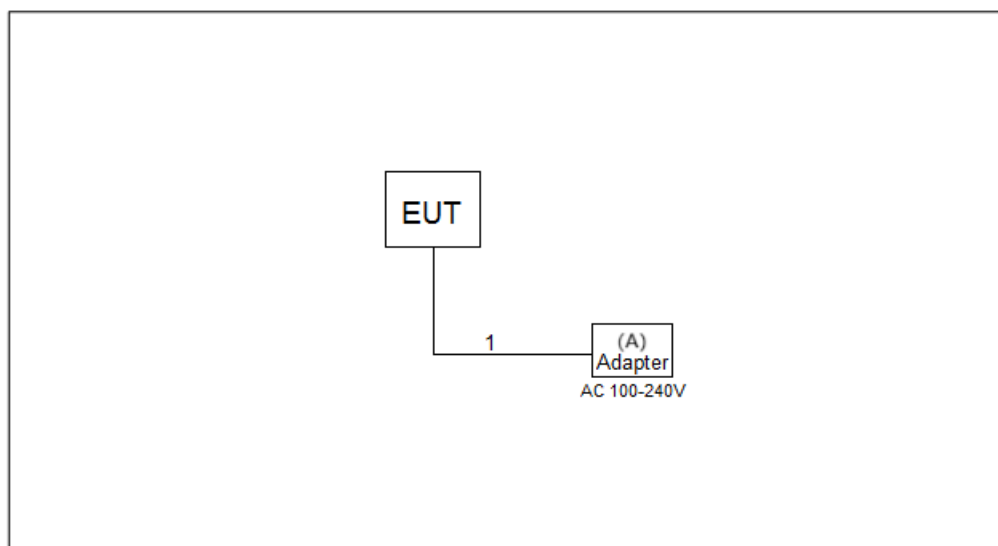
LTE BAND 7 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1RB/25RB/50RB
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK	1RB/36RB/75RB
				16QAM	1RB/27RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1RB/50RB/100RB
				16QAM	1RB/27RB
Occupied Bandwidth	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	25RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	50RB
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK	75RB
				16QAM	27RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	100RB
				16QAM	27RB
Conducted Spurious Emissions	20775 to 21425	21100	5MHz	QPSK	1RB
	20850 to 21350	21100	20MHz	QPSK	1RB
Radiated Spurious Emissions	20775 to 21425	21100	5MHz	QPSK	1RB
	20850 to 21350	21100	20MHz	QPSK	1RB
Band Edge	20775 to 21425	20775, 21425	5MHz	QPSK	1RB/25RB
	20800 to 21400	20800, 21400	10MHz	QPSK	1RB/50RB
	20825 to 21375	20825, 21375	15MHz	QPSK	1RB/75RB
	20850 to 21350	20850, 21350	20MHz	QPSK	1RB/100RB
Peak To Average Ratio	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1RB
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	1RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1RB
Frequency Stability	20850 to 21350	20850, 21350	20MHz	QPSK	100RB

LTE BAND 38 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK	1RB/25RB/50RB
				16QAM	1RB/25RB /27RB
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK	1RB/36RB/75RB
				16QAM	1RB/27RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK	1RB/50RB/100RB
				16QAM	1RB/27RB
Occupied Bandwidth	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	25RB
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK	50RB
				16QAM	27RB
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK	75RB
				16QAM	27RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK	100RB
				16QAM	27RB
Conducted Spurious Emissions	37850 to 38150	38000	5MHz	QPSK	1RB
	37850 to 38150	38000	20MHz	QPSK	1RB
Radiated Spurious Emissions	37850 to 38150	38000	5MHz	QPSK	1RB
	37850 to 38150	38000	20MHz	QPSK	1RB
Band Edge	37775 to 38225	37775, 38225	5MHz	QPSK	1RB/25RB
	37800 to 38200	37800, 38200	10MHz	QPSK	1RB/50RB
	37825 to 38175	37825, 38175	15MHz	QPSK	1RB/75RB
	37850 to 38150	37850, 38150	20MHz	QPSK	1RB/100RB
Peak to Average Ratio	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1RB
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM	1RB
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM	1RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM	1RB
Frequency Stability	37850 to 38150	37850, 38150	20MHz	QPSK	100RB

LTE BAND 41 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1RB/25RB/50RB
				16QAM	1RB/25RB/27RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1RB/36RB/75RB
				16QAM	1RB/27RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1RB/50RB/100RB
				16QAM	1RB/27RB
Occupied Bandwidth	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	25RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	50RB
				16QAM	27RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	75RB
				16QAM	27RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	100RB
				16QAM	27RB
Conducted Spurious Emissions	39675 to 41565	40620	5MHz	QPSK	1RB
	39750 to 41490	40620	20MHz	QPSK	1RB
Radiated Spurious Emissions	39675 to 41565	40620	5MHz	QPSK	1RB
	39750 to 41490	40620	20MHz	QPSK	1RB
Band Edge	39675 to 41565	39675, 41565	5MHz	QPSK	1RB/25RB
	39700 to 41540	39700, 41540	10MHz	QPSK	1RB/50RB
	39725 to 41515	39725, 41515	15MHz	QPSK	1RB/75RB
	39750 to 41490	39750, 41490	20MHz	QPSK	1RB/100RB
Peak to Average Ratio	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1RB
Frequency Stability	39750 to 41490	39750, 41490	20MHz	QPSK	100RB

LTE BAND 66 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM	1RB/8RB/15RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK	1RB/25RB/50RB
				16QAM	1RB/25RB/27RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK	1RB/36RB/75RB
				16QAM	1RB/27RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK	1RB/50RB/100RB
				16QAM	1RB/27RB
Occupied Bandwidth	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	6RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM	15RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	25RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK	50RB
				16QAM	27RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK	75 RB
				16QAM	27RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK	100RB
				16QAM	27RB
Conducted Spurious Emissions	131979 to 132665	132322	1.4MHz	QPSK	1RB
	131997 to 132647	132322	5MHz	QPSK	1RB
	132072 to 132572	132322	20MHz	QPSK	1RB
Radiated Spurious Emissions	131979 to 132665	132322	1.4MHz	QPSK	1RB
	131997 to 132647	132322	5MHz	QPSK	1RB
	132072 to 132572	132322	20MHz	QPSK	1RB
Band Edge	131979 to 132665	131979, 132665	1.4MHz	QPSK	1RB/6RB
	131987 to 132657	131987, 132657	3MHz	QPSK	1RB/15RB
	131997 to 132647	131997, 132647	5MHz	QPSK	1RB/25RB
	132022 to 132622	132022, 132622	10MHz	QPSK	1RB/50RB
	132047 to 132597	132047, 132597	15MHz	QPSK	1RB/75RB
	132072 to 132572	132072, 132572	20MHz	QPSK	1RB/100RB
Peak to Average Ratio	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	1RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM	1RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	1RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM	1RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM	1RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	1RB
Frequency Stability	132072 to 132572	132072, 132572	20MHz	QPSK	100RB

3.3 BLOCK DIGRAM SHOWING THECONFIGURATIONOFSYSTEMTESTED



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	Adapter	HUAWEI	HW-050100C01	H779KBJ5W03843

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB cable	Yes	No	1m

4. TEST RESULT

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMIT

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.

Mobile stations of BRS/EBS are operating in the 2496–2690 MHz band limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

4.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5 or ANSI C63.26-2015 Section 5.2.

EIRP:

$EIRP = \text{Output Power} + \text{Antenan gain}$

ERP:

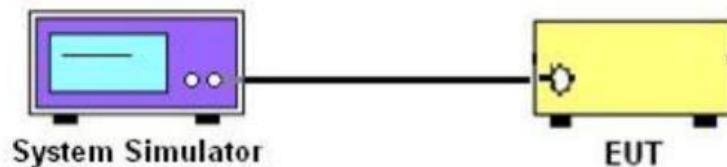
$ERP = EIRP - 2.15$

Output Power:

The EUT was set up for the maximum power with WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP LAYOUT

Output Power Measurement



4.1.4 TEST DEVIATION

No deviation.

4.1.5 TEST RESULTS

Please refer to the APPENDIX A.

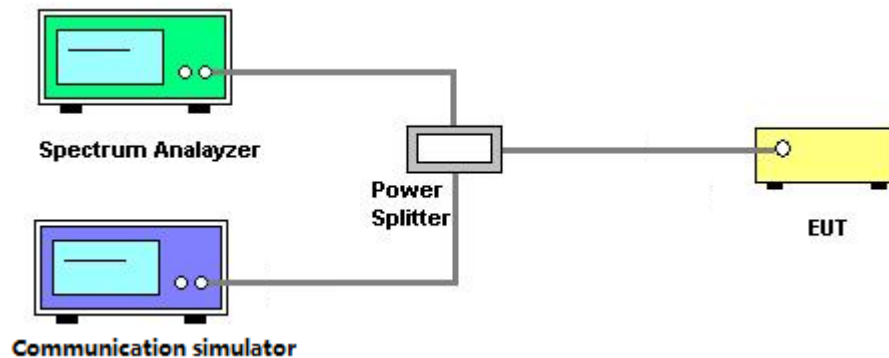
4.2 OCCUPIED BANDWIDTH MEASUREMENT

4.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4 or ANSI C63.26-2015 Section 5.4.

1. The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. $RBW = (1\% \sim 5\%) * EBW$
 $VBW \geq 3 * RBW$
4. Set spectrum analyzer with Peak detector.

4.2.2 TEST SETUP LAYOUT



4.2.3 TEST DEVIATION

No deviation.

4.2.4 TEST RESULTS

Please refer to the APPENDIX B.

4.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

4.3.1 LIMIT

For operations in the 1710-1755 MHz band:

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. The emission limit equal to -13dBm.

For operations in the 2496 -2690 MHz band:

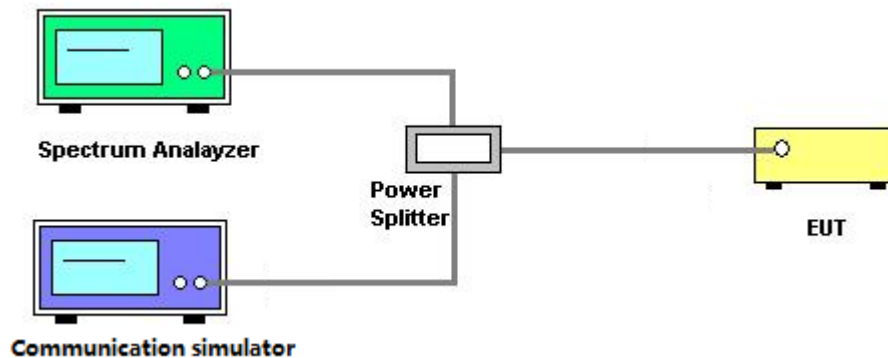
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm.

4.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6 or ANSI C63.26-2015 Section 5.7.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with Peak or RMS detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

4.3.3 TEST SETUP LAYOUT



4.3.4 TEST DEVIATION

No deviation.

4.3.5 TEST RESULTS

Please refer to the APPENDIX C.

4.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

4.4.1 LIMIT

For band 4,66, 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. The emission limit equal to -13dBm.

For Band 7, 38,41, 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 $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm.

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 82.26dB μ V/m or 70.26dB μ V/m or 55.26dB μ V/m.

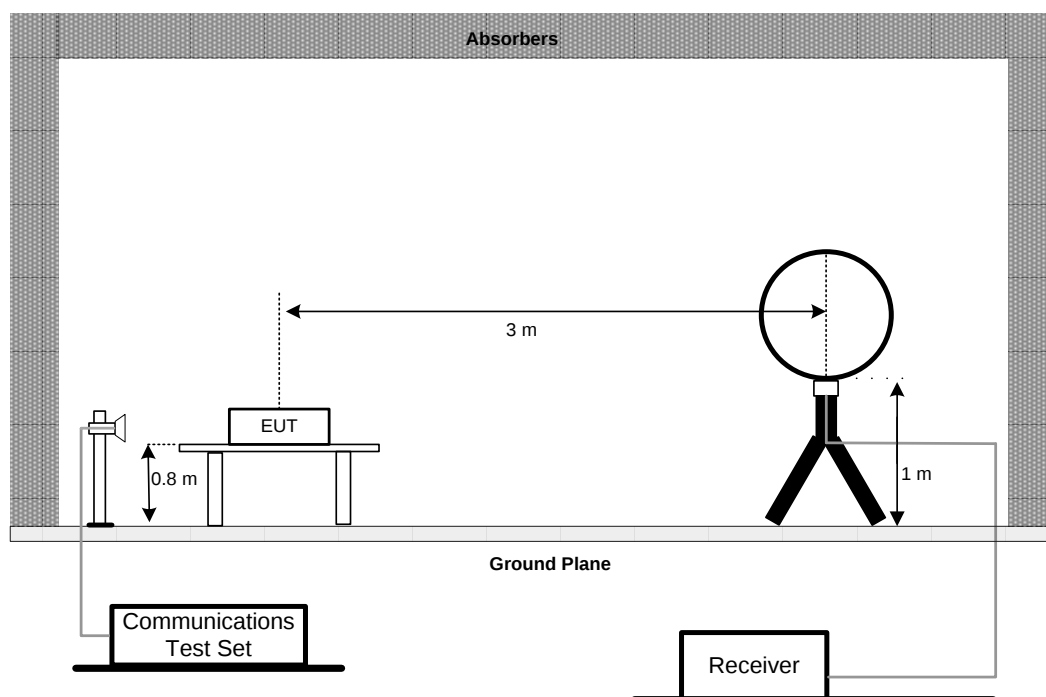
4.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.2 or ANSI C63.26-2015 Section 5.5.

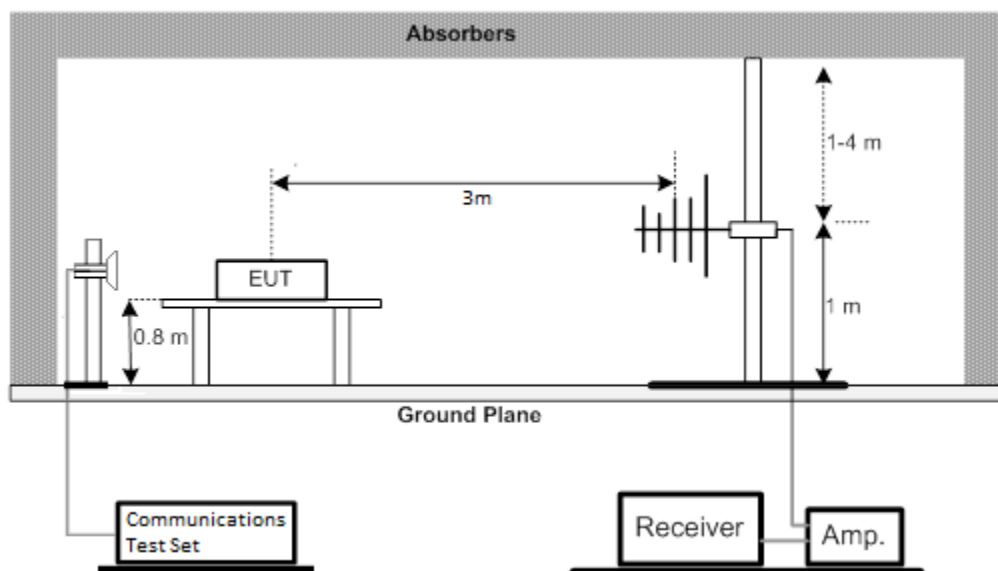
1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
4. Start the test, rotate the table 360° to find the worst Angle, maintain the worst Angle, raise the antenna to 1-4m to find the worst height, maintain the worst height, then rotate the table to determine the final worst Angle, grab the spectrum diagram.
5. EUT shall be placed in accordance with X,Y,Z as required by Figure 5 in ANSI C63.26. Repeat Step 5 above to find the worst placement. Test all bands according to the worst placement.
6. Then EIRP is then converted to field strength as follows in Equation
7. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log(D) + 104.8$; where D is the measurement distance (in the far field region) in m. The emission limit equal to 82.26dB μ V/m or 70.26dB μ V/m or 55.26dB μ V/m.

4.4.3 TEST SETUP LAYOUT

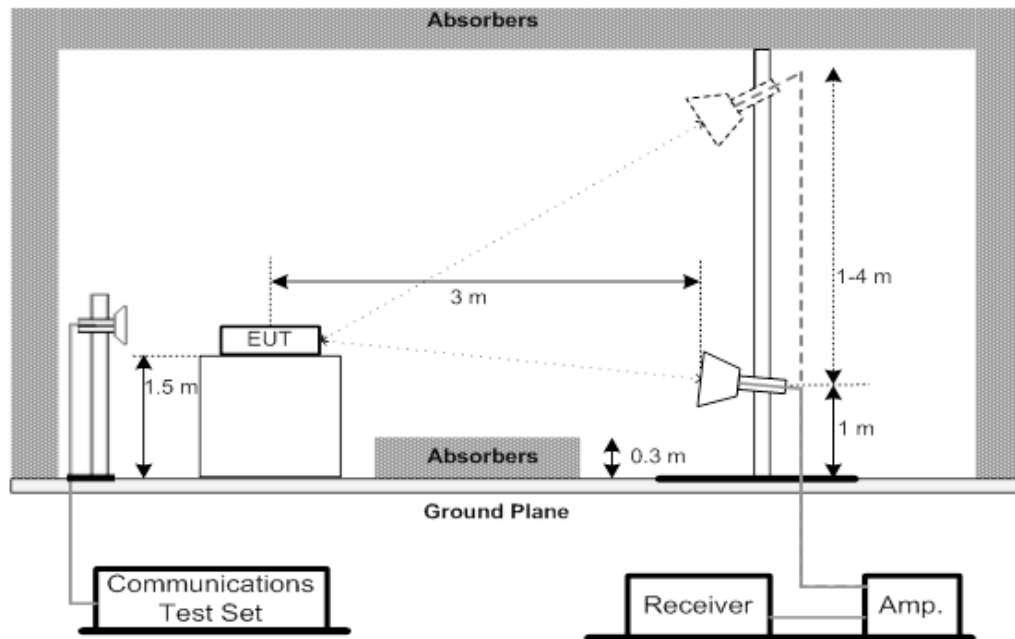
Below 30MHz



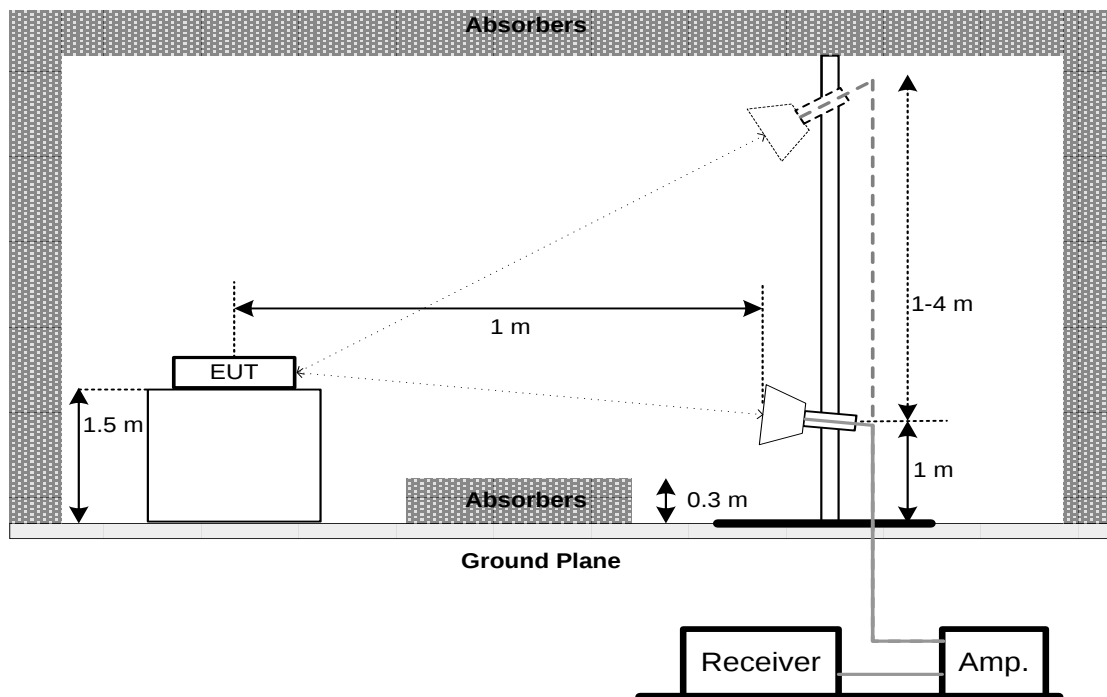
30MHz to 1000MHz



1GHz to 18GHz



Above 18GHz



4.4.4 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX D.

4.4.5 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX E.

4.4.6 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX F.

4.5 BAND EDGE MEASUREMENT

4.5.1 LIMIT

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

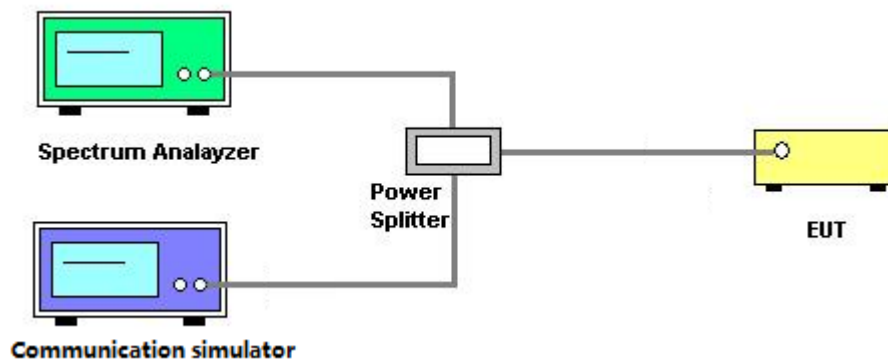
For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

4.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6 or ANSI C63.26-2015 Section 5.7.

1. All measurements were done at low and high operational frequency range.
2. Record the max trace plot into the test report.

4.5.3 TEST SETUP LAYOUT



4.5.4 TEST DEVIATION

No deviation.

4.5.5 TEST RESULTS

Please refer to the APPENDIX G.

4.6 PEAK TO AVERAGE RATIO MEASUREMENT

4.6.1 LIMIT

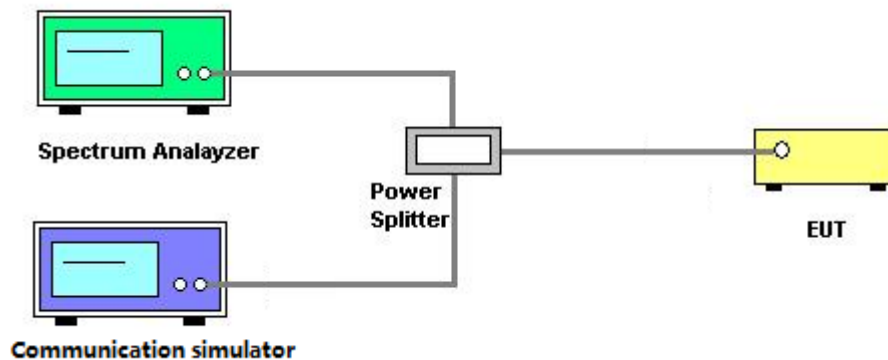
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7 or ANSI C63.26-2015 Section 5.2.6.

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

4.6.3 TEST SETUP LAYOUT



4.6.4 TEST DEVIATION

No deviation.

4.6.5 TEST RESULTS

Please refer to the APPENDIX H.

4.7 FREQUENCY STABILITY MEASUREMENT

4.7.1 LIMIT

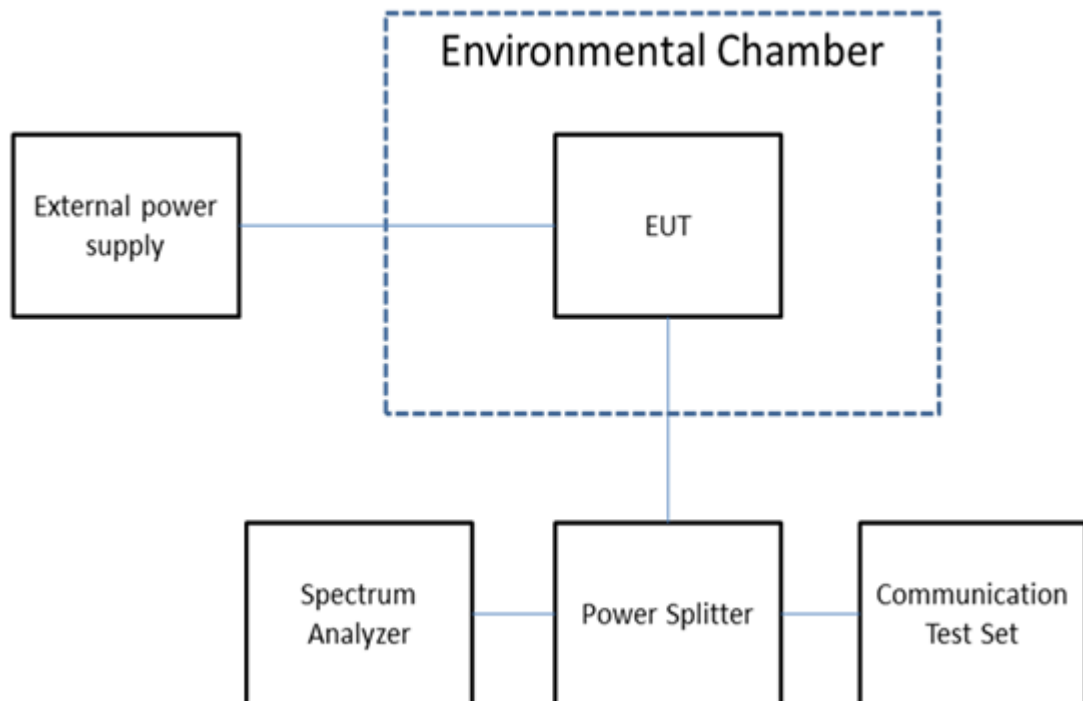
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.7.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9 or ANSI C63.26-2015 Section 5.6.

1. A reference point shall be established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as f_L and f_H respectively. The worst-case frequency offset determined in the above methods shall be added or subtracted from the values of f_L and f_H and the resulting frequencies must remain within the band.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

4.7.3 TEST SETUP LAYOUT



4.7.4 TEST DEVIATION

No deviation.

4.7.5 TEST RESULTS

Please refer to the APPENDIX I.

4. LIST OF MEASUREMENT EQUIPMENTS

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	00025	Mar. 01, 2026
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 06, 2025
3	Cable	N/A	RW4950-3.8A-NM SM-1.5	N/A	Nov. 12, 2025
4	Cable	N/A	LMR400-NMNM-8 M	N/A	Nov. 12, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	CM	9*6*6	N/A	May 16, 2025

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01462	Dec. 14, 2025
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 14, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 31, 2025
4	Cable	RegalWay	LMR400-NMNM -12.5m	N/A	Jun. 06, 2025
5	Cable	RegalWay	LMR400-NMNM -3m	N/A	Jun. 06, 2025
6	Cable	RegalWay	LMR400-NMNM -0.5m	N/A	Jun. 06, 2025
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	wideband radio communication tester	R&S	CMW500	152372	Dec. 06, 2025
11	966 Chamber room	CM	9*6*6	N/A	May 16, 2025

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	966 Chamber room	CM	9*6*6	N/A	Dec. 28, 2025
4	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Jul. 03, 2025
5	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jul. 03, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Jul. 03, 2025
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
8	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 02, 2026
9	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Oct. 29, 2025
10	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
11	Filter	STI	STI15-9912	N/A	May 31, 2025

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Aug. 20, 2025
2	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025
3	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025
4	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun.16, 2025
6	966 Chamber room	CM	9*6*6	N/A	Dec. 28, 2025
7	Positioning Controller	MF	MF-7802	N/A	N/A
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
9	wideband radio communication tester	R&S	CMW500	152372	Dec. 06, 2025

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Aug. 20, 2025
2	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025
3	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025
4	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025
6	966 Chamber room	CM	9*6*6	N/A	Dec. 28, 2025
7	Positioning Controller	MF	MF-7802	N/A	N/A
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
9	wideband radio communication tester	R&S	CMW500	152372	Dec. 06, 2025

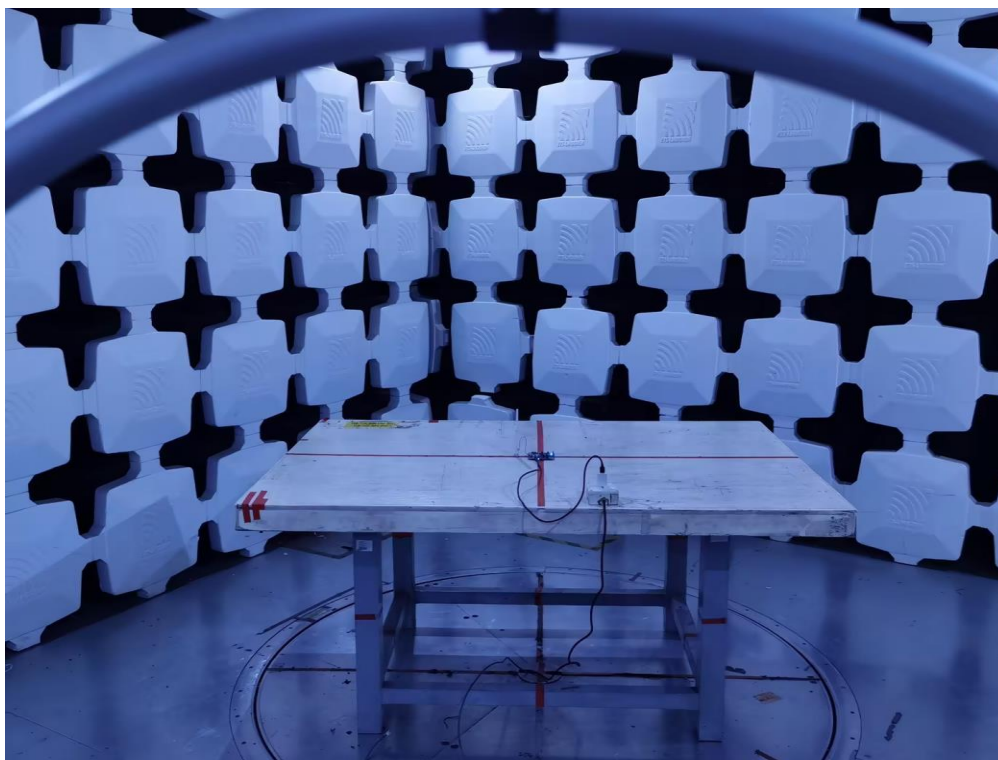
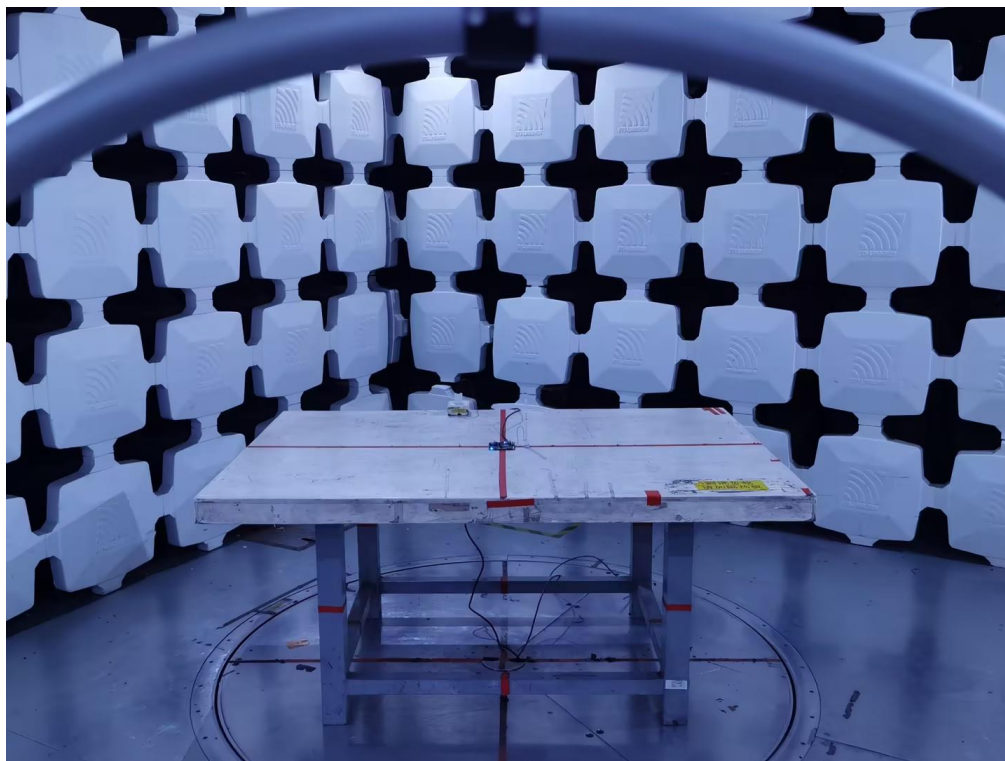
Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXA Signal Analyzer	Agilent Technologies	N9020A	MY49100060	Jun. 28, 2025
2	Wideband Radio Communication Tester	R&S	CWM 500	131463	Jan. 19, 2025
3	DC Source metter	Iteck	IT6154	0061041267682010 01	Jun. 28, 2025
4	Temperature Chamber	ESPEC	SU-242	93018786	Jun. 28, 2025

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

5. EUT TEST PHOTO

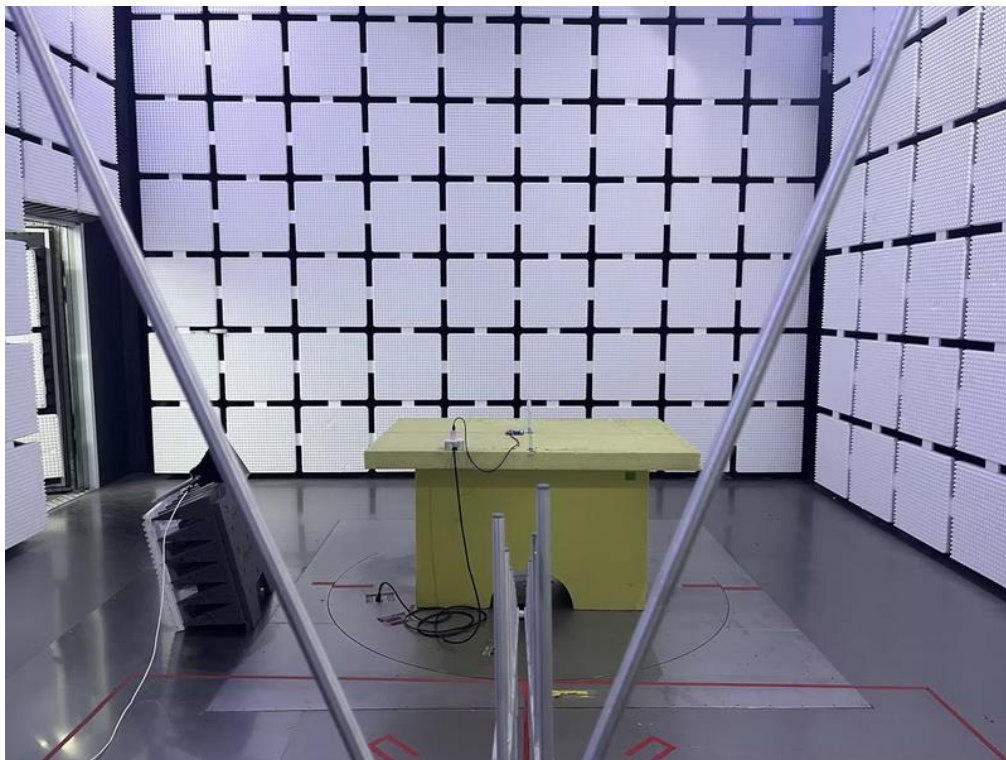
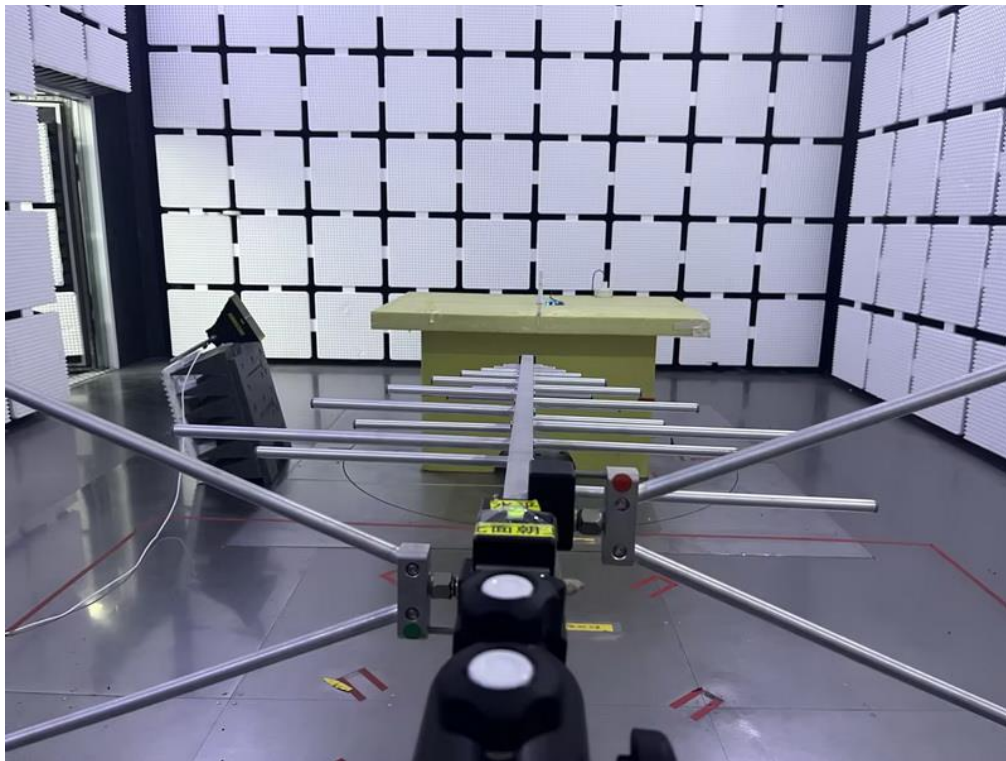
Radiated Emissions Test Photos

9 kHz to 30 MHz



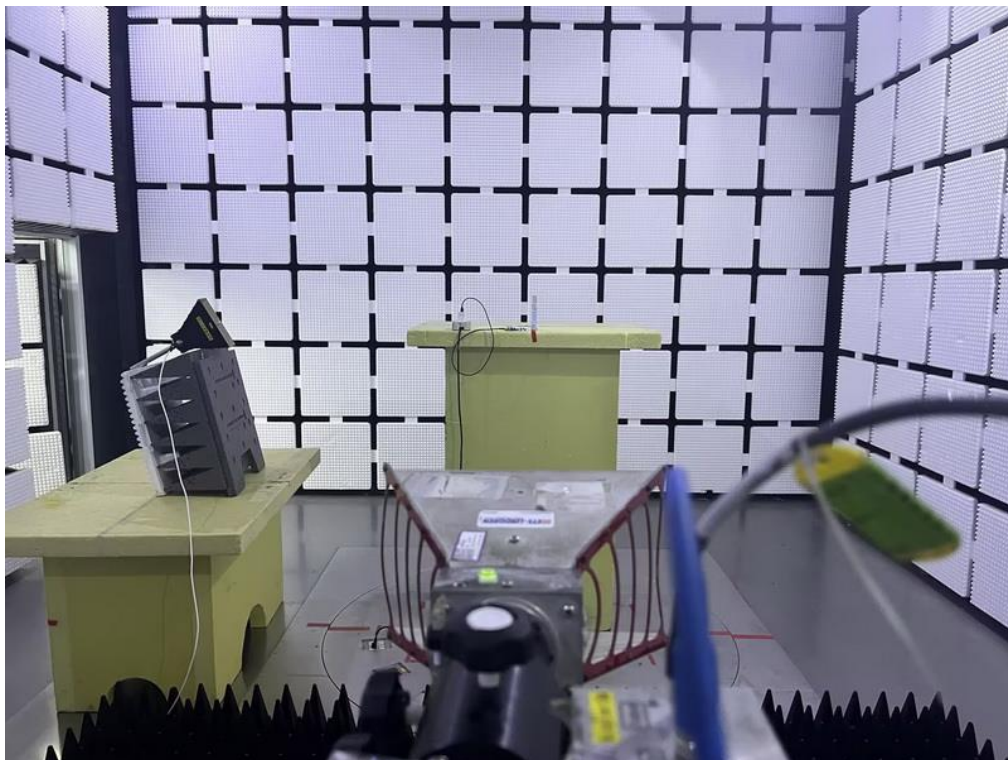
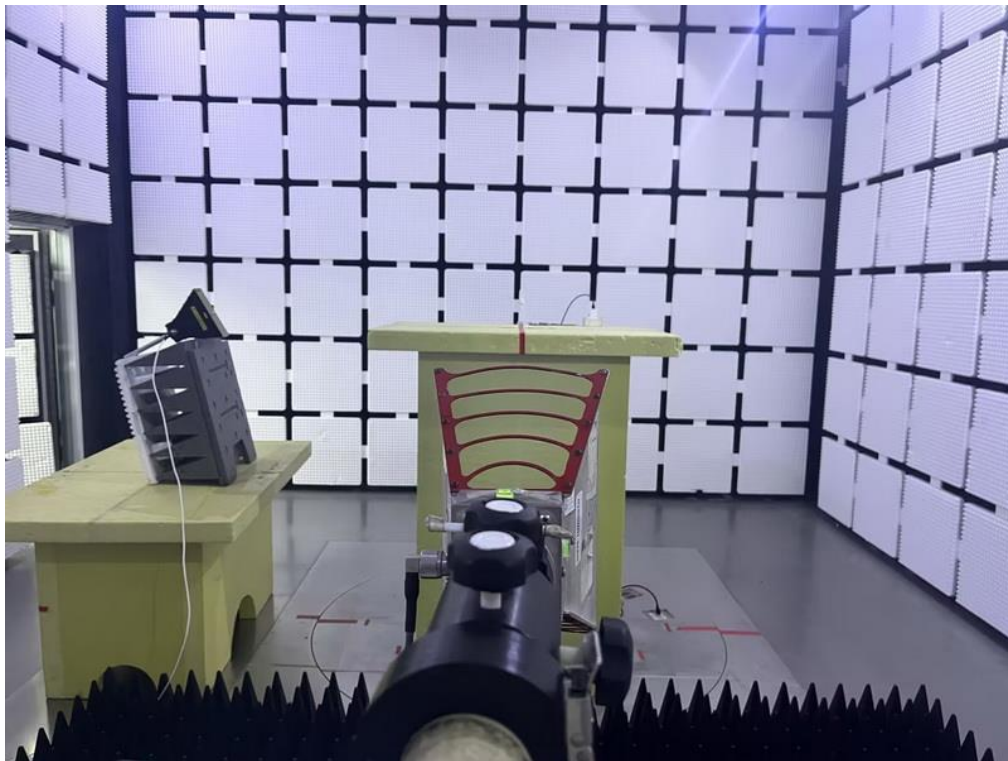
Radiated Emissions Test Photos

30 MHz to 1 GHz



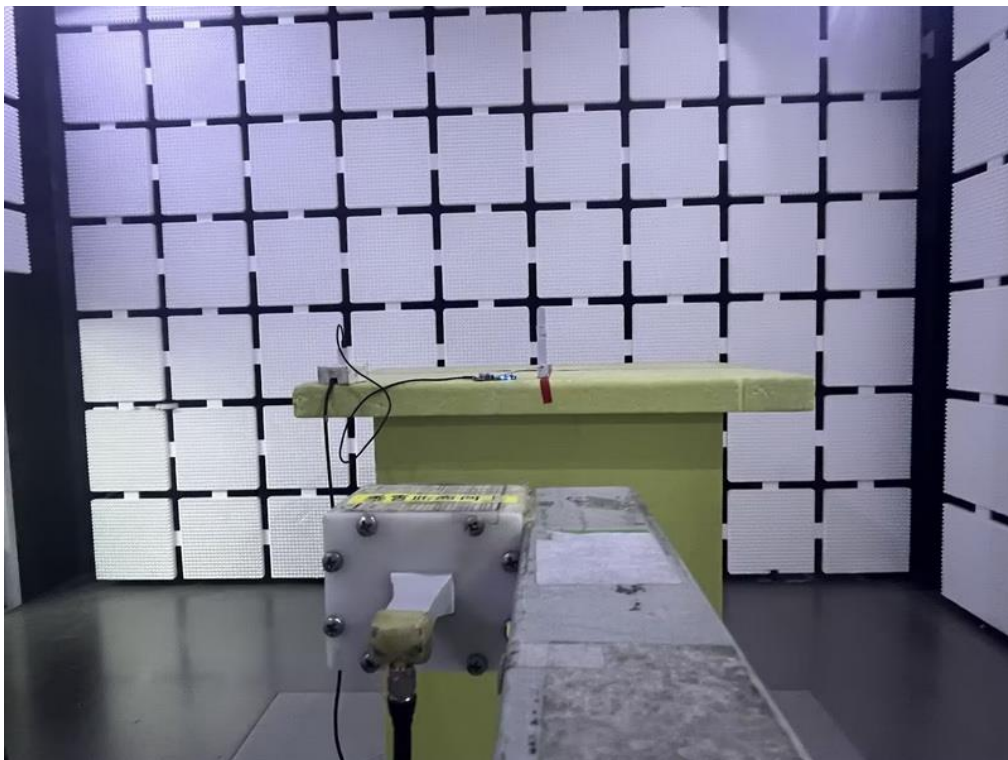
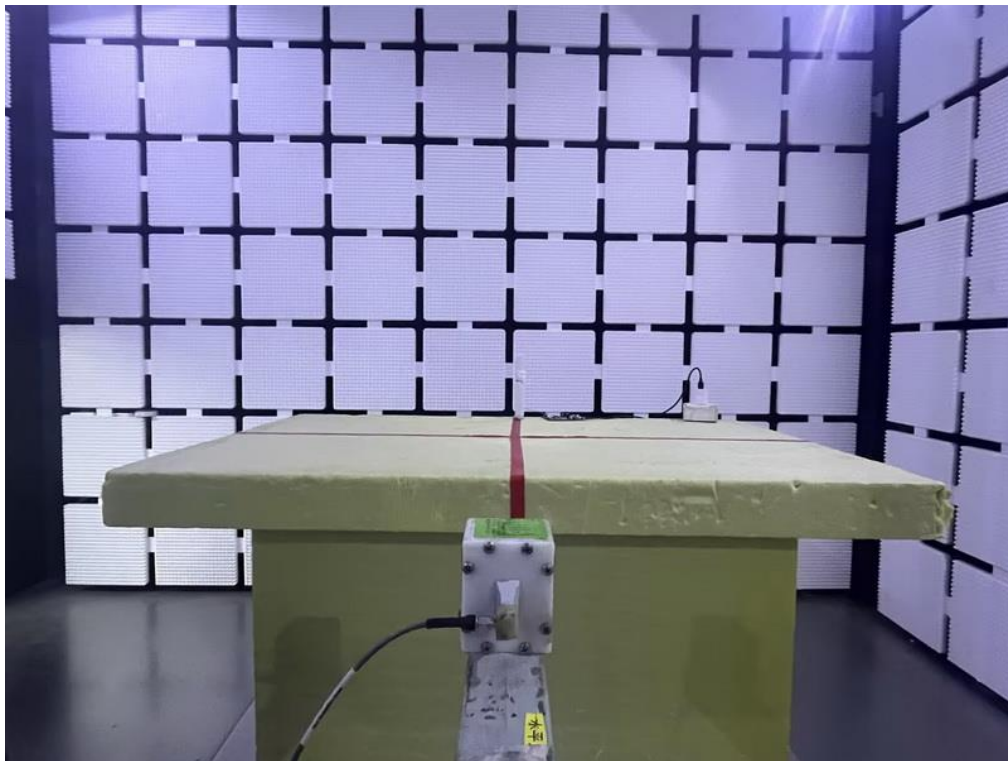
Radiated Emissions Test Photos

1 GHz to 18 GHz



Radiated Emissions Test Photos

Above 18 GHz



APPENDIX A - OUTPUT POWER

Output Power(dBm)

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19957CH	20175CH	20393CH
				1710.7MHz	1732.5MHz	1754.3MHz
4 / 1.4MHz	QPSK	1	0	24.47	24.03	24.35
		1	2	24.48	24.06	24.40
		1	5	24.43	24.16	24.35
		3	0	24.43	24.08	24.39
		3	1	24.47	24.12	24.43
		3	2	24.46	24.13	24.43
		6	0	23.58	23.01	23.53
	16QAM	1	0	24.11	23.39	23.67
		1	2	24.13	23.41	23.73
		1	5	24.06	23.41	23.72
		3	0	23.74	23.28	23.67
		3	1	23.87	23.28	23.71
		3	2	23.86	23.29	23.70
		6	0	22.98	22.34	22.71

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19965CH	20175CH	20385CH
				1711.5MHz	1732.5MHz	1753.5MHz
4 / 3MHz	QPSK	1	0	24.49	23.85	24.35
		1	7	24.64	24.07	24.44
		1	14	24.43	23.91	24.30
		8	0	23.59	23.06	23.47
		8	4	23.62	23.05	23.55
		8	7	23.57	23.11	23.53
		15	0	23.55	23.10	23.55
	16QAM	1	0	23.72	23.18	23.57
		1	7	23.94	23.43	23.73
		1	14	23.83	23.28	23.59
		8	0	23.00	22.26	22.65
		8	4	23.03	22.34	22.71
		8	7	22.99	22.34	22.69
		15	0	22.75	22.22	22.64

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19975CH	20175CH	20375CH
				1712.5MHz	1732.5MHz	1752.5MHz
4 / 5MHz	QPSK	1	0	24.86	24.19	24.70
		1	13	24.81	24.13	24.52
		1	24	24.89	24.32	24.69
		12	0	23.73	23.09	23.64
		12	6	23.71	23.12	23.60
		12	11	23.70	23.28	23.63
		25	0	23.71	23.16	23.69
	16QAM	1	0	24.30	23.59	24.00
		1	13	24.11	23.61	23.84
		1	24	24.32	23.81	24.03
		12	0	22.93	22.44	22.74
		12	6	22.90	22.47	22.79
		12	11	22.90	22.54	22.72
		25	0	22.89	22.43	22.72

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20000CH	20175CH	20350CH
				1715MHz	1732.5MHz	1750MHz
4 / 10MHz	QPSK	1	0	24.69	24.09	24.52
		1	25	24.65	24.18	24.49
		1	49	24.56	24.39	24.58
		25	0	23.79	23.11	23.69
		25	13	23.72	23.16	23.71
		25	25	23.67	23.33	23.76
		50	0	23.77	23.36	23.67
	16QAM	1	0	24.08	23.49	23.84
		1	25	23.95	23.43	23.86
		1	49	23.95	23.74	23.94
		25	0	22.89	22.37	22.82
		25	13	22.83	22.41	22.81
		25	25	22.79	22.53	22.83
		27	0	22.56	22.49	22.57

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20025CH	20175CH	20325CH
				1717.5MHz	1732.5MHz	1747.5MHz
4 / 15MHz	QPSK	1	0	24.44	23.97	23.99
		1	38	24.46	24.19	24.47
		1	74	24.06	24.18	24.37
		36	0	24.33	23.82	24.23
		36	18	24.40	24.15	24.23
		36	39	24.36	24.14	24.22
		75	0	24.33	24.13	24.22
	16QAM	1	0	23.74	23.32	23.46
		1	38	23.90	23.52	23.90
		1	74	23.41	23.53	23.79
		27	0	22.54	22.42	22.43

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20050CH	20175CH	20300CH
				1720MHz	1732.5MHz	1740MHz
4 / 20MHz	QPSK	1	0	24.55	24.24	24.02
		1	50	24.37	24.25	24.36
		1	99	23.98	24.31	24.32
		50	0	24.32	24.37	24.24
		50	25	24.29	24.34	24.29
		50	50	23.91	23.88	23.87
		100	0	23.36	24.36	24.31
	16QAM	1	0	23.93	23.37	23.52
		1	50	23.72	23.39	23.88
		1	99	23.38	23.40	23.83
		27	0	22.41	22.45	22.38

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20775CH	21100CH	21425CH
				2502.5MHz	2535MHz	2567.5MHz
7 / 5MHz	QPSK	1	0	24.33	24.62	24.85
		1	13	24.15	24.48	24.74
		1	24	24.45	24.55	24.88
		12	0	23.35	23.46	23.91
		12	6	23.36	23.42	23.73
		12	11	23.40	23.41	23.86
		25	0	23.40	23.47	23.83
	16QAM	1	0	23.59	23.84	24.34
		1	13	23.62	23.69	24.24
		1	24	23.87	23.81	24.33
		12	0	22.64	22.73	23.04
		12	6	22.61	22.54	22.97
		12	11	22.65	22.62	22.91
		25	0	22.57	22.52	23.04

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20800CH	21100CH	21400CH
				2505MHz	2535MHz	2565MHz
7 / 10MHz	QPSK	1	0	24.31	24.45	24.86
		1	25	24.38	24.27	24.52
		1	49	24.63	24.45	24.58
		25	0	23.42	23.56	23.90
		25	13	23.48	23.45	23.71
		25	25	23.53	23.58	23.70
		50	0	23.75	23.73	23.99
	16QAM	1	0	23.57	23.67	24.13
		1	25	23.58	23.51	23.85
		1	49	23.75	23.65	23.83
		25	0	22.44	22.59	22.93
		25	13	22.54	22.47	22.77
		25	25	22.62	22.49	22.78
		27	0	22.91	22.88	22.83

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20825CH	21100CH	21375CH
				2507.5MHz	2535MHz	2562.5MHz
7 / 15MHz	QPSK	1	0	24.03	24.42	25.05
		1	38	24.44	24.30	24.76
		1	74	24.39	24.29	24.43
		36	0	24.35	24.39	24.79
		36	18	24.41	24.43	24.78
		36	39	24.49	24.53	24.78
		75	0	24.45	24.50	24.78
	16QAM	1	0	23.26	23.67	24.47
		1	38	23.63	23.75	24.22
		1	74	23.64	23.58	23.97
		27	0	22.98	23.04	22.97

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20850CH	21100CH	21350CH
				2510MHz	2535MHz	2560MHz
7 / 20MHz	QPSK	1	0	24.20	24.61	24.77
		1	50	24.59	24.28	24.80
		1	99	24.41	24.35	24.32
		50	0	24.29	24.57	24.76
		50	25	24.33	24.64	24.74
		50	50	23.96	24.20	24.41
		100	0	24.42	24.67	24.84
	16QAM	1	0	23.58	23.88	24.38
		1	50	23.87	23.64	24.28
		1	99	23.77	23.66	23.78
		27	0	23.05	22.97	23.10

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37775CH	38000CH	38225CH
				2572.5MHz	2593MHz	2617.5MHz
38 / 5MHz	QPSK	1	0	24.31	24.37	24.59
		1	13	24.16	24.22	24.52
		1	24	24.34	24.36	24.60
		12	0	23.24	23.48	23.67
		12	6	23.23	23.45	23.54
		12	11	23.26	23.46	23.56
		25	0	23.31	23.51	23.60
	16QAM	1	0	23.52	23.70	24.08
		1	13	23.41	23.53	23.99
		1	24	23.58	23.65	24.13
		12	0	22.39	22.53	22.83
		12	6	22.37	22.43	22.78
		12	11	22.39	22.37	22.78
		25	0	22.41	22.41	22.82

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37800CH	38000CH	38200CH
				2575MHz	2593MHz	2615MHz
38 / 10MHz	QPSK	1	0	24.31	24.43	24.60
		1	25	24.21	24.36	24.41
		1	49	24.28	24.40	24.51
		25	0	23.28	23.47	23.72
		25	13	23.27	23.43	23.66
		25	25	23.34	23.45	23.70
		50	0	23.36	23.45	23.62
	16QAM	1	0	23.70	24.03	23.90
		1	25	23.60	23.88	23.78
		1	49	23.67	23.96	23.84
		25	0	22.37	22.52	22.61
		25	13	22.35	22.46	22.55
		25	25	22.40	22.48	22.58
		27	0	22.27	22.27	22.26

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37825CH	38000CH	38175CH
				2577.5MHz	2593MHz	2612.5MHz
38 / 15MHz	QPSK	1	0	24.21	24.44	24.44
		1	38	24.35	24.48	24.55
		1	74	24.16	24.34	24.33
		36	0	23.67	23.85	23.95
		36	18	24.10	24.28	24.38
		36	39	24.09	24.29	24.39
		75	0	24.16	24.29	24.38
	16QAM	1	0	23.50	23.51	23.85
		1	38	23.68	23.58	23.95
		1	74	23.47	23.39	23.72
		27	0	22.34	22.36	22.42

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37850CH	38000CH	38150CH
				2580MHz	2593MHz	2610MHz
38 / 20MHz	QPSK	1	0	24.28	24.48	24.47
		1	50	24.40	24.48	24.61
		1	99	24.20	24.31	24.36
		50	0	23.82	23.87	24.30
		50	25	24.35	24.31	24.29
		50	50	24.34	24.30	24.29
		100	0	24.32	24.30	24.29
	16QAM	1	0	23.43	23.63	23.67
		1	50	23.61	23.65	23.81
		1	99	23.40	23.47	23.58
		27	0	22.01	21.98	22.06

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				39675CH	40620CH	41565CH
				2498.5MHz	2593MHz	2687.5MHz
41 / 5MHz	QPSK	1	0	24.49	24.40	24.97
		1	13	24.37	24.23	24.83
		1	24	24.46	24.37	24.88
		12	0	23.49	23.43	23.96
		12	6	23.41	23.43	23.91
		12	11	23.40	23.47	23.90
		25	0	23.44	23.41	23.93
	16QAM	1	0	23.80	23.85	23.99
		1	13	23.58	23.69	23.82
		1	24	23.68	23.83	23.91
		12	0	22.57	22.45	22.96
		12	6	22.51	22.40	22.90
		12	11	22.50	22.39	22.91
		25	0	22.54	22.44	22.95

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				39700CH	40620CH	41540CH
				2501.0MHz	2593MHz	2685.0MHz
41 / 10MHz	QPSK	1	0	24.61	24.60	25.01
		1	25	24.36	24.51	24.81
		1	49	24.44	24.58	24.78
		25	0	23.50	23.51	24.05
		25	13	23.40	23.45	23.98
		25	25	23.43	23.48	23.96
		50	0	23.43	23.49	23.98
	16QAM	1	0	23.86	23.71	24.19
		1	25	23.64	23.53	24.00
		1	49	23.79	23.71	23.99
		25	0	22.68	22.50	22.96
		25	13	22.60	22.45	22.95
		25	25	22.62	22.47	22.99
		27	0	22.37	22.35	22.35

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				39725CH	40620CH	41515CH
				2503.5MHz	2593MHz	2682.5MHz
41 / 15MHz	QPSK	1	0	24.37	24.38	24.88
		1	38	24.36	24.45	24.92
		1	74	24.21	24.26	24.70
		36	0	23.81	23.80	24.44
		36	18	24.24	24.23	24.52
		36	39	24.22	24.23	24.29
		75	0	24.21	24.22	24.54
	16QAM	1	0	23.75	23.54	24.13
		1	38	23.70	23.62	24.22
		1	74	23.46	23.42	23.88
		27	0	22.41	22.43	22.50

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				39750CH	40620CH	41490CH
				2506.0MHz	2593MHz	2680.0MHz
41 / 20MHz	QPSK	1	0	24.45	24.41	24.91
		1	50	24.29	24.49	24.94
		1	99	24.13	24.24	24.53
		50	0	23.71	23.80	24.33
		50	25	24.19	24.00	24.34
		50	50	24.21	24.25	24.35
		100	0	24.13	23.84	24.89
	16QAM	1	0	23.66	23.61	24.14
		1	50	23.49	23.63	24.19
		1	99	23.32	23.41	23.81
		27	0	22.04	22.04	22.02

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131979CH	132322CH	132665CH
				1710.7MHz	1745MHz	1779.3MHz
66 / 1.4MHz	QPSK	1	0	24.64	24.36	24.30
		1	2	24.58	24.41	24.29
		1	5	24.62	24.35	24.16
		3	0	24.63	24.35	24.24
		3	1	24.71	24.38	24.24
		3	2	24.67	24.36	24.18
		6	0	23.73	23.46	23.24
	16QAM	1	0	23.93	23.83	23.49
		1	2	23.95	23.85	23.49
		1	5	23.92	23.81	23.41
		3	0	23.88	23.55	23.36
		3	1	23.95	23.58	23.35
		3	2	23.91	23.55	23.30
		6	0	22.97	22.69	22.46

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131987CH	132322CH	132657CH
				1711.5MHz	1745MHz	1778.5MHz
66 / 3MHz	QPSK	1	0	24.53	24.19	24.11
		1	7	24.69	24.36	24.30
		1	14	24.47	24.25	24.15
		8	0	23.74	23.41	23.29
		8	4	23.77	23.47	23.35
		8	7	23.70	23.45	23.31
		15	0	23.69	23.43	23.32
	16QAM	1	0	23.83	23.51	23.29
		1	7	24.06	23.67	23.58
		1	14	23.83	23.56	23.33
		8	0	23.01	22.67	22.45
		8	4	23.04	22.67	22.52
		8	7	23.09	22.69	22.47
		15	0	22.87	22.51	22.42

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131997CH	132322CH	132647CH
				1712.5MHz	1745MHz	1777.5MHz
66 / 5MHz	QPSK	1	0	24.93	24.50	24.41
		1	13	24.89	24.40	24.36
		1	24	24.97	24.62	24.47
		12	0	23.84	23.51	23.30
		12	6	23.79	23.54	23.33
		12	11	23.79	23.60	23.37
		25	0	23.80	23.60	23.35
	16QAM	1	0	24.27	23.86	23.63
		1	13	24.19	23.77	23.57
		1	24	24.41	24.00	23.68
		12	0	23.02	22.75	22.47
		12	6	22.98	22.78	22.49
		12	11	22.98	22.83	22.54
		25	0	22.98	22.74	22.46

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132022CH	132322CH	132622CH
				1715MHz	1745MHz	1775MHz
66 / 10MHz	QPSK	1	0	24.87	24.33	24.33
		1	25	24.72	24.48	24.39
		1	49	24.71	24.70	24.58
		25	0	23.85	23.50	23.28
		25	13	23.77	23.57	23.37
		25	25	23.72	23.69	23.55
		50	0	23.78	23.57	23.61
	16QAM	1	0	24.16	23.59	23.52
		1	25	24.00	23.66	23.58
		1	49	23.96	23.90	23.79
		25	0	22.97	22.62	22.46
		25	13	22.91	22.68	22.63
		25	25	22.86	22.83	22.73
		27	0	22.43	22.47	22.46

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132047CH	132322CH	132597CH
				1717.5MHz	1745MHz	1772.5MHz
66 / 15MHz	QPSK	1	0	24.55	24.04	24.23
		1	38	24.61	24.43	24.34
		1	74	24.11	24.36	24.42
		36	0	24.48	23.96	24.38
		36	18	24.45	24.30	24.38
		36	39	24.41	24.29	24.37
		75	0	24.40	24.28	24.37
	16QAM	1	0	23.76	23.50	23.47
		1	38	23.82	23.85	23.58
		1	74	23.43	23.81	23.60
		27	0	22.34	22.36	22.34

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132072CH	132322CH	132572CH
				1720MHz	1745MHz	1770MHz
66 / 20MHz	QPSK	1	0	24.56	24.08	24.49
		1	50	24.40	24.49	24.42
		1	99	23.97	24.44	24.46
		50	0	24.30	24.36	24.40
		50	25	24.34	24.39	24.42
		50	50	23.90	23.94	23.96
		100	0	24.31	23.63	24.38
	16QAM	1	0	23.94	23.28	23.82
		1	50	23.79	23.60	23.80
		1	99	23.34	23.58	23.78
		27	0	22.34	22.42	22.43

EIRP (dBm)

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19957CH	20175CH	20393CH
				1710.7MHz	1732.5MHz	1754.3MHz
4 / 1.4MHz	QPSK	1	0	28.07	27.63	27.95
		1	2	28.08	27.66	28.00
		1	5	28.03	27.76	27.95
		3	0	28.03	27.68	27.99
		3	1	28.07	27.72	28.03
		3	2	28.06	27.73	28.03
		6	0	27.18	26.61	27.13
	16QAM	1	0	27.71	26.99	27.27
		1	2	27.73	27.01	27.33
		1	5	27.66	27.01	27.32
		3	0	27.34	26.88	27.27
		3	1	27.47	26.88	27.31
		3	2	27.46	26.89	27.30
		6	0	26.58	25.94	26.31

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19965CH	20175CH	20385CH
				1711.5MHz	1732.5MHz	1753.5MHz
4 / 3MHz	QPSK	1	0	28.09	27.45	27.95
		1	7	28.24	27.67	28.04
		1	14	28.03	27.51	27.90
		8	0	27.19	26.66	27.07
		8	4	27.22	26.65	27.15
		8	7	27.17	26.71	27.13
		15	0	27.15	26.70	27.15
	16QAM	1	0	27.32	26.78	27.17
		1	7	27.54	27.03	27.33
		1	14	27.43	26.88	27.19
		8	0	26.60	25.86	26.25
		8	4	26.63	25.94	26.31
		8	7	26.59	25.94	26.29
		15	0	26.35	25.82	26.24

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19975CH	20175CH	20375CH
				1712.5MHz	1732.5MHz	1752.5MHz
4 / 5MHz	QPSK	1	0	28.46	27.79	28.30
		1	13	28.41	27.73	28.12
		1	24	28.49	27.92	28.29
		12	0	27.33	26.69	27.24
		12	6	27.31	26.72	27.20
		12	11	27.30	26.88	27.23
		25	0	27.31	26.76	27.29
	16QAM	1	0	27.90	27.19	27.60
		1	13	27.71	27.21	27.44
		1	24	27.92	27.41	27.63
		12	0	26.53	26.04	26.34
		12	6	26.50	26.07	26.39
		12	11	26.50	26.14	26.32
		25	0	26.49	26.03	26.32

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20000CH	20175CH	20350CH
				1715MHz	1732.5MHz	1750MHz
4 / 10MHz	QPSK	1	0	28.29	27.69	28.12
		1	25	28.25	27.78	28.09
		1	49	28.16	27.99	28.18
		25	0	27.39	26.71	27.29
		25	13	27.32	26.76	27.31
		25	25	27.27	26.93	27.36
		50	0	27.37	26.96	27.27
	16QAM	1	0	27.68	27.09	27.44
		1	25	27.55	27.03	27.46
		1	49	27.55	27.34	27.54
		25	0	26.49	25.97	26.42
		25	13	26.43	26.01	26.41
		25	25	26.39	26.13	26.43
		27	0	26.16	26.09	26.17

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20025CH	20175CH	20325CH
				1717.5MHz	1732.5MHz	1747.5MHz
4 / 15MHz	QPSK	1	0	28.04	27.57	27.59
		1	38	28.06	27.79	28.07
		1	74	27.66	27.78	27.97
		36	0	27.93	27.42	27.83
		36	18	28.00	27.75	27.83
		36	39	27.96	27.74	27.82
		75	0	27.93	27.73	27.82
	16QAM	1	0	27.34	26.92	27.06
		1	38	27.50	27.12	27.50
		1	74	27.01	27.13	27.39
		27	0	26.14	26.02	26.03

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20050CH	20175CH	20300CH
				1720MHz	1732.5MHz	1740MHz
4 / 20MHz	QPSK	1	0	28.15	27.84	27.62
		1	50	27.97	27.85	27.96
		1	99	27.58	27.91	27.92
		50	0	27.92	27.97	27.84
		50	25	27.89	27.94	27.89
		50	50	27.51	27.48	27.47
		100	0	26.96	27.96	27.91
	16QAM	1	0	27.53	26.97	27.12
		1	50	27.32	26.99	27.48
		1	99	26.98	27.00	27.43
		27	0	26.01	26.05	25.98

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20775CH	21100CH	21425CH
				2502.5MHz	2535MHz	2567.5MHz
7 / 5MHz	QPSK	1	0	29.04	29.33	29.56
		1	13	28.86	29.19	29.45
		1	24	29.16	29.26	29.59
		12	0	28.06	28.17	28.62
		12	6	28.07	28.13	28.44
		12	11	28.11	28.12	28.57
		25	0	28.11	28.18	28.54
	16QAM	1	0	28.30	28.55	29.05
		1	13	28.33	28.40	28.95
		1	24	28.58	28.52	29.04
		12	0	27.35	27.44	27.75
		12	6	27.32	27.25	27.68
		12	11	27.36	27.33	27.62
		25	0	27.28	27.23	27.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20800CH	21100CH	21400CH
				2505MHz	2535MHz	2565MHz
7 / 10MHz	QPSK	1	0	29.02	29.16	29.57
		1	25	29.09	28.98	29.23
		1	49	29.34	29.16	29.29
		25	0	28.13	28.27	28.61
		25	13	28.19	28.16	28.42
		25	25	28.24	28.29	28.41
		50	0	28.46	28.44	28.70
	16QAM	1	0	28.28	28.38	28.84
		1	25	28.29	28.22	28.56
		1	49	28.46	28.36	28.54
		25	0	27.15	27.30	27.64
		25	13	27.25	27.18	27.48
		25	25	27.33	27.20	27.49
		27	0	27.62	27.59	27.54

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20825CH	21100CH	21375CH
				2507.5MHz	2535MHz	2562.5MHz
7 / 15MHz	QPSK	1	0	28.74	29.13	29.76
		1	38	29.15	29.01	29.47
		1	74	29.10	29.00	29.14
		36	0	29.06	29.10	29.50
		36	18	29.12	29.14	29.49
		36	39	29.20	29.24	29.49
		75	0	29.16	29.21	29.49
	16QAM	1	0	23.26	23.67	24.47
		1	38	23.63	23.75	24.22
		1	74	23.64	23.58	23.97
		27	0	22.98	23.04	22.97

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20850CH	21100CH	21350CH
				2510MHz	2535MHz	2560MHz
7 / 20MHz	QPSK	1	0	28.91	29.32	29.48
		1	50	29.30	28.99	29.51
		1	99	29.12	29.06	29.03
		50	0	29.00	29.28	29.47
		50	25	29.04	29.35	29.45
		50	50	28.67	28.91	29.12
		100	0	29.13	29.38	29.55
	16QAM	1	0	23.58	23.88	24.38
		1	50	23.87	23.64	24.28
		1	99	23.77	23.66	23.78
		27	0	23.05	22.97	23.10

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37775CH	38000CH	38225CH
				2572.5MHz	2593MHz	2617.5MHz
38 / 5MHz	QPSK	1	0	29.02	29.08	29.30
		1	13	28.87	28.93	29.23
		1	24	29.05	29.07	29.31
		12	0	27.95	28.19	28.38
		12	6	27.94	28.16	28.25
		12	11	27.97	28.17	28.27
		25	0	28.02	28.22	28.31
	16QAM	1	0	28.23	28.41	28.79
		1	13	28.12	28.24	28.70
		1	24	28.29	28.36	28.84
		12	0	27.10	27.24	27.54
		12	6	27.08	27.14	27.49
		12	11	27.10	27.08	27.49
		25	0	27.12	27.12	27.53

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37800CH	38000CH	38200CH
				2575MHz	2593MHz	2615MHz
38 / 10MHz	QPSK	1	0	29.02	29.14	29.31
		1	25	28.92	29.07	29.12
		1	49	28.99	29.11	29.22
		25	0	27.99	28.18	28.43
		25	13	27.98	28.14	28.37
		25	25	28.05	28.16	28.41
		50	0	28.07	28.16	28.33
	16QAM	1	0	28.41	28.74	28.61
		1	25	28.31	28.59	28.49
		1	49	28.38	28.67	28.55
		25	0	27.08	27.23	27.32
		25	13	27.06	27.17	27.26
		25	25	27.11	27.19	27.29
		27	0	22.27	22.27	22.26

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37825CH	38000CH	38175CH
				2577.5MHz	2593MHz	2612.5MHz
38 / 15MHz	QPSK	1	0	28.92	29.15	29.15
		1	38	29.06	29.19	29.26
		1	74	28.87	29.05	29.04
		36	0	28.38	28.56	28.66
		36	18	28.81	28.99	29.09
		36	39	28.80	29.00	29.10
		75	0	28.87	29.00	29.09
	16QAM	1	0	23.50	23.51	23.85
		1	38	23.68	23.58	23.95
		1	74	23.47	23.39	23.72
		27	0	22.34	22.36	22.42

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37850CH	38000CH	38150CH
				2580MHz	2593MHz	2610MHz
38 / 20MHz	QPSK	1	0	28.99	29.19	29.18
		1	50	29.11	29.19	29.32
		1	99	28.91	29.02	29.07
		50	0	28.53	28.58	29.01
		50	25	29.06	29.02	29.00
		50	50	29.05	29.01	29.00
		100	0	29.03	29.01	29.00
	16QAM	1	0	23.43	23.63	23.67
		1	50	23.61	23.65	23.81
		1	99	23.40	23.47	23.58
		27	0	22.01	21.98	22.06

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				39675CH	40620CH	41565CH
				2498.5MHz	2593MHz	2687.5MHz
41 / 5MHz	QPSK	1	0	29.20	29.11	29.68
		1	13	29.08	28.94	29.54
		1	24	29.17	29.08	29.59
		12	0	28.20	28.14	28.67
		12	6	28.12	28.14	28.62
		12	11	28.11	28.18	28.61
		25	0	28.15	28.12	28.64
	16QAM	1	0	28.51	28.56	28.70
		1	13	28.29	28.40	28.53
		1	24	28.39	28.54	28.62
		12	0	27.28	27.16	27.67
		12	6	27.22	27.11	27.61
		12	11	27.21	27.10	27.62
		25	0	27.25	27.15	27.66

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				39700CH	40620CH	41540CH
				2501.0MHz	2593MHz	2685.0MHz
41 / 10MHz	QPSK	1	0	29.32	29.31	29.72
		1	25	29.07	29.22	29.52
		1	49	29.15	29.29	29.49
		25	0	28.21	28.22	28.76
		25	13	28.11	28.16	28.69
		25	25	28.14	28.19	28.67
		50	0	28.14	28.20	28.69
	16QAM	1	0	28.57	28.42	28.90
		1	25	28.35	28.24	28.71
		1	49	28.50	28.42	28.70
		25	0	27.39	27.21	27.67
		25	13	27.31	27.16	27.66
		25	25	27.33	27.18	27.70
		27	0	27.08	27.06	27.06

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				39725CH	40620CH	41515CH
				2503.5MHz	2593MHz	2682.5MHz
41 / 15MHz	QPSK	1	0	29.08	29.09	29.59
		1	38	29.07	29.16	29.63
		1	74	28.92	28.97	29.41
		36	0	28.52	28.51	29.15
		36	18	28.95	28.94	29.23
		36	39	28.93	28.94	29.00
		75	0	28.92	28.93	29.25
	16QAM	1	0	23.75	23.54	24.13
		1	38	23.70	23.62	24.22
		1	74	23.46	23.42	23.88
		27	0	22.41	22.43	22.50

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				39750CH	40620CH	41490CH
				2506.0MHz	2593MHz	2680.0MHz
41 / 20MHz	QPSK	1	0	29.16	29.12	29.62
		1	50	29.00	29.20	29.65
		1	99	28.84	28.95	29.24
		50	0	28.42	28.51	29.04
		50	25	28.90	28.71	29.05
		50	50	28.92	28.96	29.06
		100	0	28.84	28.55	29.60
	16QAM	1	0	23.66	23.61	24.14
		1	50	23.49	23.63	24.19
		1	99	23.32	23.41	23.81
		27	0	22.04	22.04	22.02

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131979CH	132322CH	132665CH
				1710.7MHz	1745MHz	1779.3MHz
66 / 1.4MHz	QPSK	1	0	28.60	28.32	28.26
		1	2	28.54	28.37	28.25
		1	5	28.58	28.31	28.12
		3	0	28.59	28.31	28.20
		3	1	28.67	28.34	28.20
		3	2	28.63	28.32	28.14
		6	0	27.69	27.42	27.20
	16QAM	1	0	27.89	27.79	27.45
		1	2	27.91	27.81	27.45
		1	5	27.88	27.77	27.37
		3	0	27.84	27.51	27.32
		3	1	27.91	27.54	27.31
		3	2	27.87	27.51	27.26
		6	0	26.93	26.65	26.42

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131987CH	132322CH	132657CH
				1711.5MHz	1745MHz	1778.5MHz
66 / 3MHz	QPSK	1	0	28.49	28.15	28.07
		1	7	28.65	28.32	28.26
		1	14	28.43	28.21	28.11
		8	0	27.70	27.37	27.25
		8	4	27.73	27.43	27.31
		8	7	27.66	27.41	27.27
		15	0	27.65	27.39	27.28
	16QAM	1	0	27.79	27.47	27.25
		1	7	28.02	27.63	27.54
		1	14	27.79	27.52	27.29
		8	0	26.97	26.63	26.41
		8	4	27.00	26.63	26.48
		8	7	27.05	26.65	26.43
		15	0	26.83	26.47	26.38

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				131997CH	132322CH	132647CH
				1712.5MHz	1745MHz	1777.5MHz
66 / 5MHz	QPSK	1	0	28.89	28.46	28.37
		1	13	28.85	28.36	28.32
		1	24	28.93	28.58	28.43
		12	0	27.80	27.47	27.26
		12	6	27.75	27.50	27.29
		12	11	27.75	27.56	27.33
		25	0	27.76	27.56	27.31
	16QAM	1	0	28.23	27.82	27.59
		1	13	28.15	27.73	27.53
		1	24	28.37	27.96	27.64
		12	0	26.98	26.71	26.43
		12	6	26.94	26.74	26.45
		12	11	26.94	26.79	26.50
		25	0	26.94	26.70	26.42

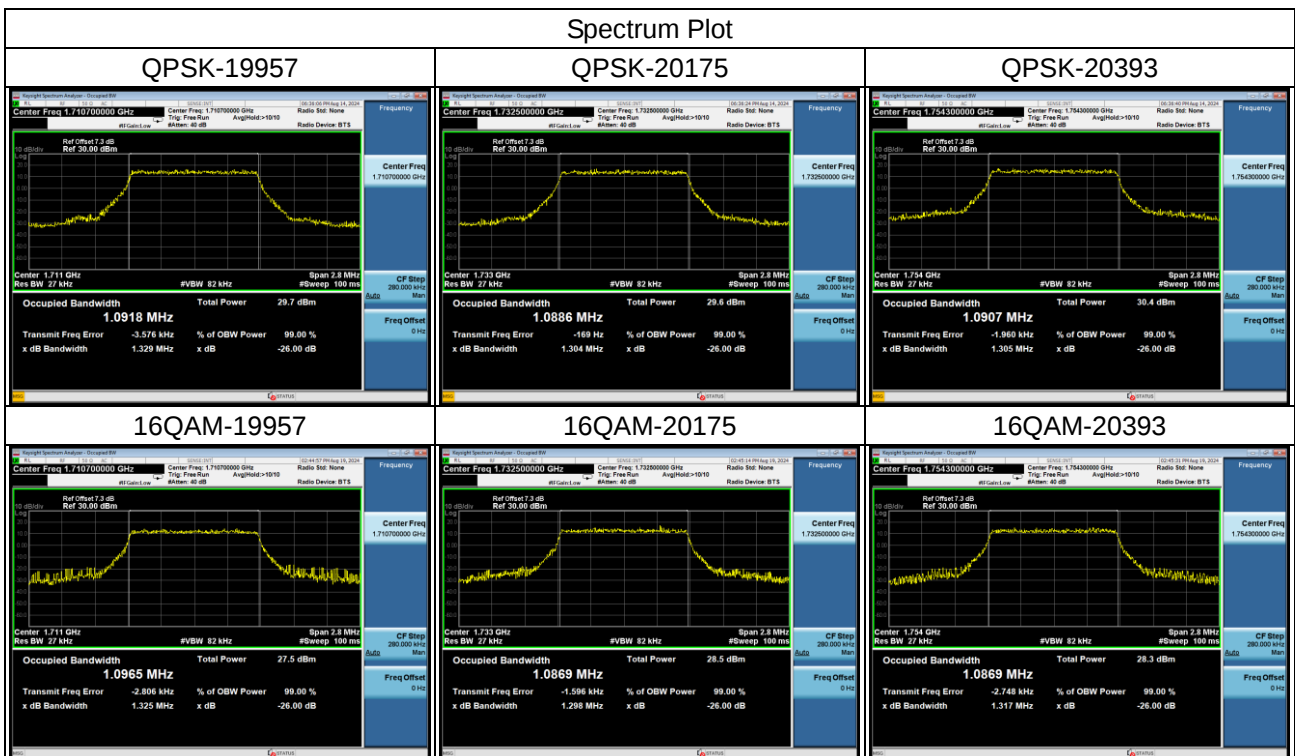
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132022CH	132322CH	132622CH
				1715MHz	1745MHz	1775MHz
66 / 10MHz	QPSK	1	0	28.83	28.29	28.29
		1	25	28.68	28.44	28.35
		1	49	28.67	28.66	28.54
		25	0	27.81	27.46	27.24
		25	13	27.73	27.53	27.33
		25	25	27.68	27.65	27.51
		50	0	27.74	27.53	27.57
	16QAM	1	0	28.12	27.55	27.48
		1	25	27.96	27.62	27.54
		1	49	27.92	27.86	27.75
		25	0	26.93	26.58	26.42
		25	13	26.87	26.64	26.59
		25	25	26.82	26.79	26.69
		27	0	26.39	26.43	26.42

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132047CH	132322CH	132597CH
				1717.5MHz	1745MHz	1772.5MHz
66 / 15MHz	QPSK	1	0	24.55	24.04	24.23
		1	38	24.61	24.43	24.34
		1	74	24.11	24.36	24.42
		36	0	24.48	23.96	24.38
		36	18	24.45	24.30	24.38
		36	39	24.41	24.29	24.37
		75	0	24.40	24.28	24.37
	16QAM	1	0	23.76	23.50	23.47
		1	38	23.82	23.85	23.58
		1	74	23.43	23.81	23.60
		27	0	22.34	22.36	22.34

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132072CH	132322CH	132572CH
				1720MHz	1745MHz	1770MHz
66 / 20MHz	QPSK	1	0	28.52	28.04	28.45
		1	50	28.36	28.45	28.38
		1	99	27.93	28.40	28.42
		50	0	28.26	28.32	28.36
		50	25	28.30	28.35	28.38
		50	50	27.86	27.90	27.92
		100	0	28.27	27.59	28.34
	16QAM	1	0	27.90	27.24	27.78
		1	50	27.75	27.56	27.76
		1	99	27.30	27.54	27.74
		27	0	26.30	26.38	26.39

APPENDIX B - OCCUPIED BANDWIDTH

LTE Band 4_1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
19957	1710.7	1.0918	1.0965	1.329	1.325
20175	1732.5	1.0886	1.0869	1.304	1.298
20393	1754.3	1.0907	1.0869	1.305	1.317



LTE Band 4_3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
19965	1711.5	2.7044	2.7079	3.132	3.112
20175	1732.5	2.7034	2.7216	3.179	3.220
20385	1753.5	2.7136	2.7123	3.179	3.178

