

FCC Radio Test Report

FCC ID: ZMOSU806DEAU

This report concerns: Original Grant

Project No. : 2111C041
Equipment : LTE Module
Brand Name : Fibocom
Test Model : SU806D-EAU
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 : Huizhou HYE Technology Co., Ltd.
Address : No. 237, Sanhe group, Sanhe village, Tonghu Town, Zhongkai hi tech Zone, Huizhou
Date of Receipt : Nov. 03, 2021
Date of Test : Dec. 27, 2021 ~ Mar. 11, 2022
Issued Date : Mar. 23, 2022
Report Version : R01
Test Sample : Engineering Sample No.: DG2021122849 for conducted, DG20211227103 for radiated.
Standard(s) : 47 CFR FCC Part 27 Subpart L
47 CFR FCC Part 27 Subpart M
47 CFR FCC Part 2
ANSI/TIA/EIA-603-E-2016
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

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

Gabriel Zhu

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Approved by : Steven Lu



TESTING CERT #5123.02

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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** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** 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 is not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-6-2111C041	R00	Original Report.	Mar. 17, 2022	Invalid
BTL-FCCP-6-2111C041	R01	Modified the comments of TCB.	Mar. 23, 2022	Valid

1. 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 27.50(d)(4) 27.50(h)(2)	Equivalent Isotropic 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)	Radiated Spurious Emissions	PASS	-----
2.1051 27.53(h) 27.53(m)(4)&(m)(6)	Band Edge Measurements	PASS	-----
-	Peak To Average Ratio	PASS	Record Only
2.1055 27.54	Frequency Stability	PASS	-----

Note:

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

1.1 TEST FACILITY

The test facilities used to collect the test data of radiated in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

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

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) $k=1.96$ or $k=2$ (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$.

The BTL measurement uncertainty as below table:

A. Radiated Measurement :

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

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03	CISPR	30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	H	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	H	3.96
		1GHz ~ 6GHz	-	3.80
		6GHz ~ 18GHz	-	4.82
		18 GHz ~ 26.5 GHz	-	3.62

B. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	± 3.8 %
Maximum Output Power	± 0.95 dB
Power Spectral Density	± 0.86 dB
Frequency Stability	± 0.16 dB
Temperature	± 0.08 °C
Time	± 0.58 %
Supply voltages	± 0.3 %

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Output Power & EIRP	22°C	45%	DC 3.8V	Rick Liao
Occupied Bandwidth	22°C	45%	DC 3.8V	Rick Liao
Conducted Spurious Emissions	22°C	45%	DC 3.8V	Rick Liao
Radiated Spurious Emissions (9 kHz to 30 MHz)	24°C	56%	DC 3.8V	Kwok Guo
Radiated Spurious Emissions (30 MHz to 1000 MHz)	24°C	56%	DC 3.8V	Kwok Guo
Radiated Spurious Emissions (Above 1000 MHz)	24°C	56%	DC 3.8V	Kwok Guo
Band Edge	22°C	45%	DC 3.8V	Rick Liao
Peak to Average Ratio	22°C	45%	DC 3.8V	Rick Liao
Frequency Stability	Normal & Extreme	45%	Normal & Extreme	Rick Liao

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	LTE Module				
Brand Name	Fibocom				
Test Model	SU806D-EAU				
Series Model	N/A				
Model Difference(s)	N/A				
Hardware Version	V1.1				
Software Version	SU806D-EAU-Q31.00.106				
Power Source	DC voltage supplied from external power supply.				
Power Rating	DC 3.5V-4.2V				
IMEI No.	Radiated	865207050004519			
	Conducted	865207050001788			
Modulation Type	LTE		UL: QPSK,16QAM, 64QAM DL: QPSK,16QAM, 64QAM		
Max. EIRP	LTE	Channel Bandwidth (MHz)	QPSK (dBm)	16QAM (dBm)	64QAM (dBm)
	Band 4	1.4	25.35	25.31	25.36
		3	25.48	25.14	24.95
		5	25.20	24.14	24.40
		10	25.44	25.01	24.49
		15	25.43	25.27	24.65
		20	25.43	24.84	24.96
	Band 7	5	23.60	22.69	22.63
		10	23.89	23.32	22.77
		15	23.94	23.74	23.11
		20	23.67	23.25	23.48
	Band 38	5	23.57	23.15	22.74
		10	23.57	23.32	22.91
		15	23.70	23.19	22.95
		20	23.79	22.60	23.24
	Band 41	5	24.24	23.71	23.43
		10	24.07	24.14	23.38
		15	24.30	23.58	23.63
		20	24.33	23.14	23.91

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					
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					
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			
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	2595
High Range	5	38225	2617.5
	10	38200	2615
	15	38175	2612.5
	20	38150	2610

LTE Band 41			
Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)
Low Range	5	40065	2537.5
	10	40090	2540
	15	40115	2542.5
	20	40140	2545
Mid Range	5/10/15/20	40640	2595
High Range	5	41215	2652.5
	10	41190	2650
	15	41165	2647.5
	20	41140	2645

3. Table for Filed Antenna:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
shenzhen bogesi communication technology co., ltd	GHT-019A	Dipole	SMA	2.86	LTE Band 4
				1.07	LTE Band 7
				0.93	LTE Band 38
				1.52	LTE Band 41

Note: The antenna gain is provided by the manufacturer.

2.2 DESCRIPTION OF TEST MODES

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

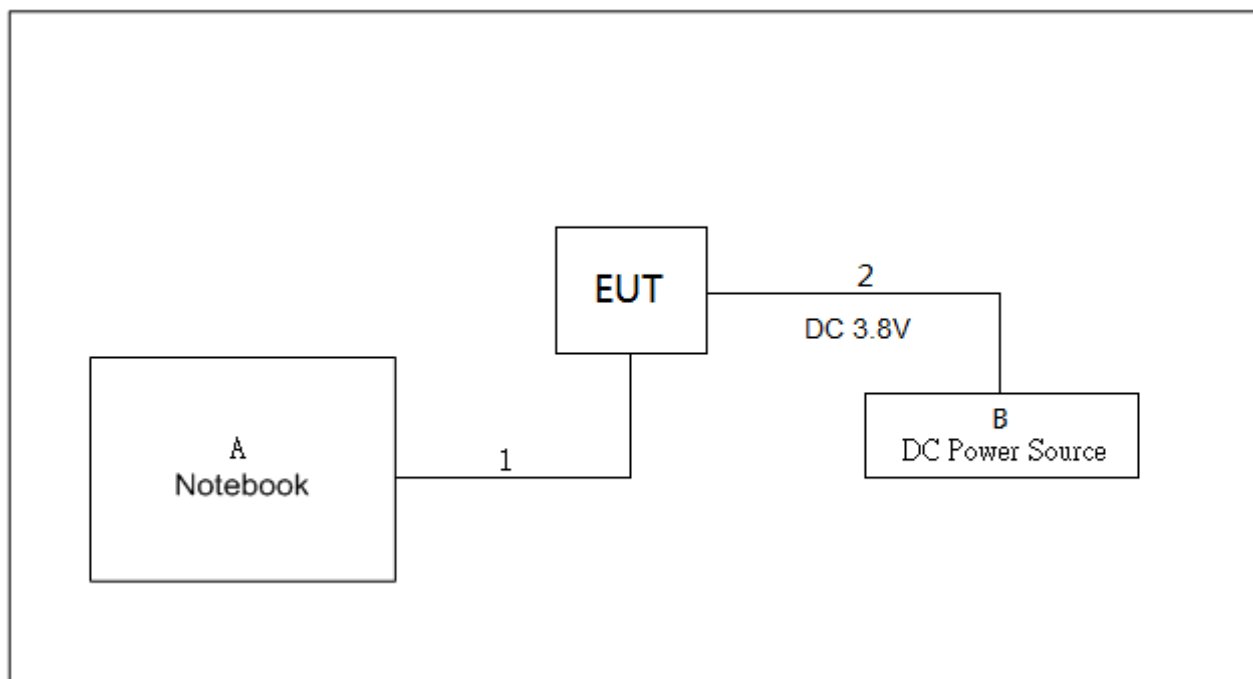
LTE BAND 4 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM	1RB/3RB/6RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM	1RB/8RB/15RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1RB/12RB/25RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1RB/25RB/50RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1RB/36RB/75RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	1RB/50RB/100RB
Occupied Bandwidth	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM	15RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	25RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	50RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	75RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	100RB
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, 64QAM	1RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM	1RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	1RB
Frequency Stability	20050 to 20300	20050, 20300	20MHz	QPSK	1RB

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, 64QAM	1RB/12RB/25RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1RB/25RB/50RB
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1RB/36RB/75RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1RB/50RB/100RB
Occupied Bandwidth	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	25RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	50RB
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	75RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	100RB
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, 64QAM	1RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1RB
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1RB
Frequency Stability	20850 to 21350	20850, 21350	20MHz	QPSK	1RB

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, 64QAM	1RB/12RB/25RB
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	1RB/25RB/50RB
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	1RB/36RB/75RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	1RB/50RB/100RB
Occupied Bandwidth	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM	25RB
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	50RB
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	75RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	100RB
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, 64QAM	1RB
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	1RB
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	1RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	1RB
Frequency Stability	37850 to 38150	37850, 38150	20MHz	QPSK	1RB

LTE BAND 41 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	40065 to 41215	40065, 40640, 41215	5MHz	QPSK, 16QAM, 64QAM	1RB/12RB/25RB
	40090 to 41190	40090, 40640, 41190	10MHz	QPSK, 16QAM, 64QAM	1RB/25RB/50RB
	40115 to 41165	40115, 40640, 41165	15MHz	QPSK, 16QAM, 64QAM	1RB/36RB/75RB
	40140 to 41140	40140, 40640, 41140	20MHz	QPSK, 16QAM, 64QAM	1RB/50RB/100RB
Occupied Bandwidth	40065 to 41215	40065, 40640, 41215	5MHz	QPSK, 16QAM, 64QAM	25RB
	40090 to 41190	40090, 40640, 41190	10MHz	QPSK, 16QAM, 64QAM	50RB
	40115 to 41165	40115, 40640, 41165	15MHz	QPSK, 16QAM, 64QAM	75RB
	40140 to 41140	40140, 40640, 41140	20MHz	QPSK, 16QAM, 64QAM	100RB
Conducted Spurious Emissions	40065 to 41215	40640	5MHz	QPSK	1RB
	40140 to 41140	40640	20MHz	QPSK	1RB
Radiated Spurious Emissions	40065 to 41215	40640	5MHz	QPSK	1RB
	40140 to 41140	40640	20MHz	QPSK	1RB
Band Edge	40065 to 41215	40065, 41215	5MHz	QPSK	1RB/25RB
	40090 to 41190	40090, 41190	10MHz	QPSK	1RB/50RB
	40115 to 41165	40115, 41165	15MHz	QPSK	1RB/75RB
	40140 to 41140	40140, 41140	20MHz	QPSK	1RB/100RB
Peak to Average Ratio	40065 to 41215	40065, 40640, 41215	5MHz	QPSK, 16QAM, 64QAM	1RB
	40090 to 41190	40090, 40640, 41190	10MHz	QPSK, 16QAM, 64QAM	1RB
	40115 to 41165	40115, 40640, 41165	15MHz	QPSK, 16QAM, 64QAM	1RB
	40140 to 41140	40140, 40640, 41140	20MHz	QPSK, 16QAM, 64QAM	1RB
Frequency Stability	40140 to 41140	40140, 41140	20MHz	QPSK	1RB

2.3 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	Brand	Model No.	Series No.
A	Notebook	HONOR	NBLK-WAX9X	N/A
B	DC Power Source	TRUE-POWER	GPC30300N	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	0.8m
2	DC Cable	NO	NO	1m

3. TEST RESULT

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMIT

Mobile / Portable station are limited to 1 watts e.i.r.p. (Part 27 Subpart L)

Mobile / Portable station are limited to 2 watts e.i.r.p. (Part 27 Subpart M)

3.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

EIRP:

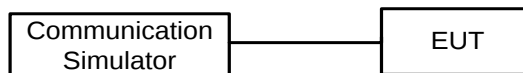
$EIRP = \text{Output Power} + \text{Antenan gain}$

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.

3.1.3 TEST SETUP LAYOUT

Output Power Measurement



3.1.4 TEST DEVIATION

No deviation

3.1.5 TEST RESULTS

Please refer to the APPENDIX A.

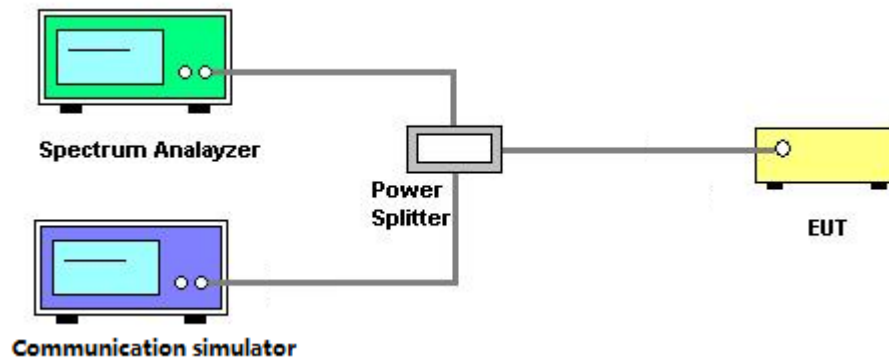
3.2 OCCUPIED BANDWIDTH MEASUREMENT

3.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 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. $RBW = (1\% \sim 5\%) \cdot EBW$
 $VBW \geq 3 \cdot RBW$
4. Set spectrum analyzer with Peak detector.

3.2.2 TEST SETUP LAYOUT



3.2.3 TEST DEVIATION

No deviation

3.2.4 TEST RESULTS

Please refer to the APPENDIX B.

3.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

3.3.1 LIMIT

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. (Part 27 Subpart L)

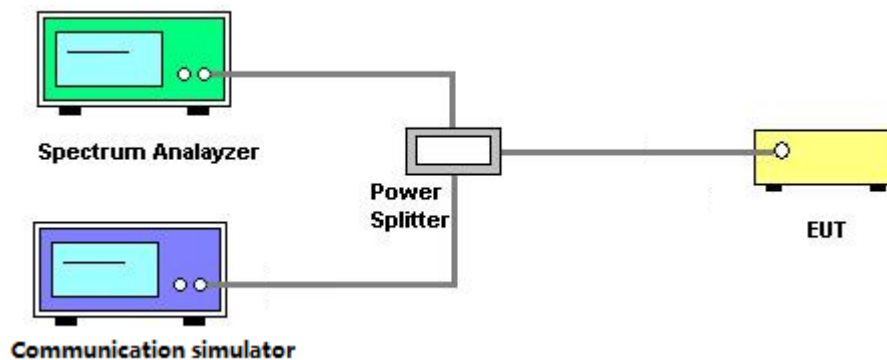
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm. (Part 27 Subpart M)

3.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

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 detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.3.3 TEST SETUP LAYOUT



3.3.4 TEST DEVIATION

No deviation

3.3.5 TEST RESULTS

Please refer to the APPENDIX C.

3.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

3.4.1 LIMIT

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. (Part 27 Subpart L)

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. (Part 27 Subpart M)

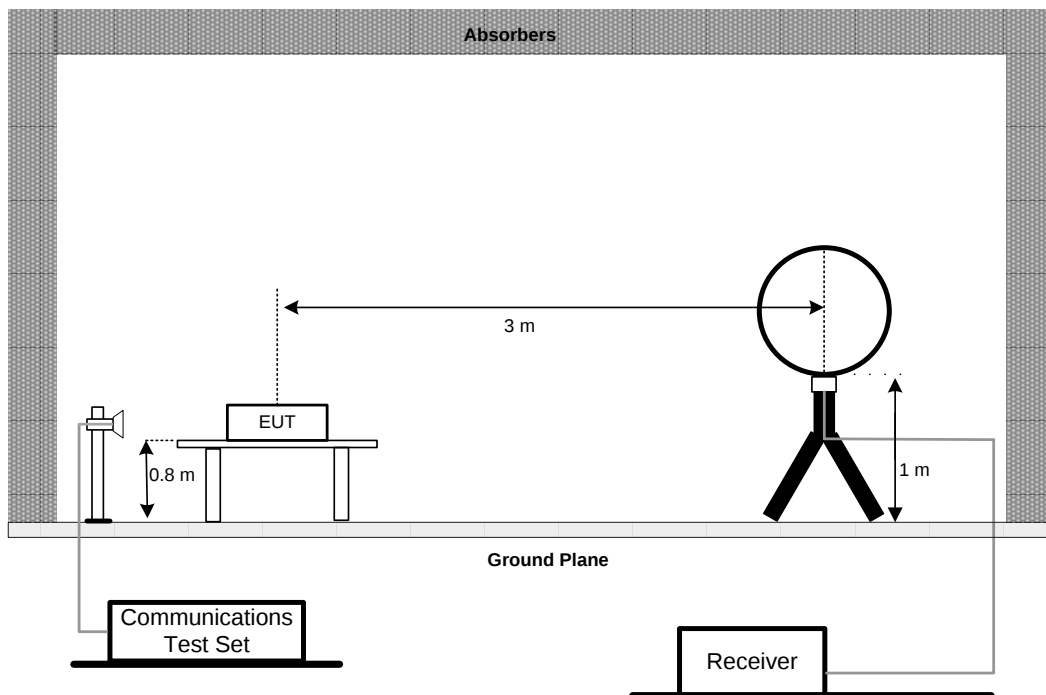
3.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.2.

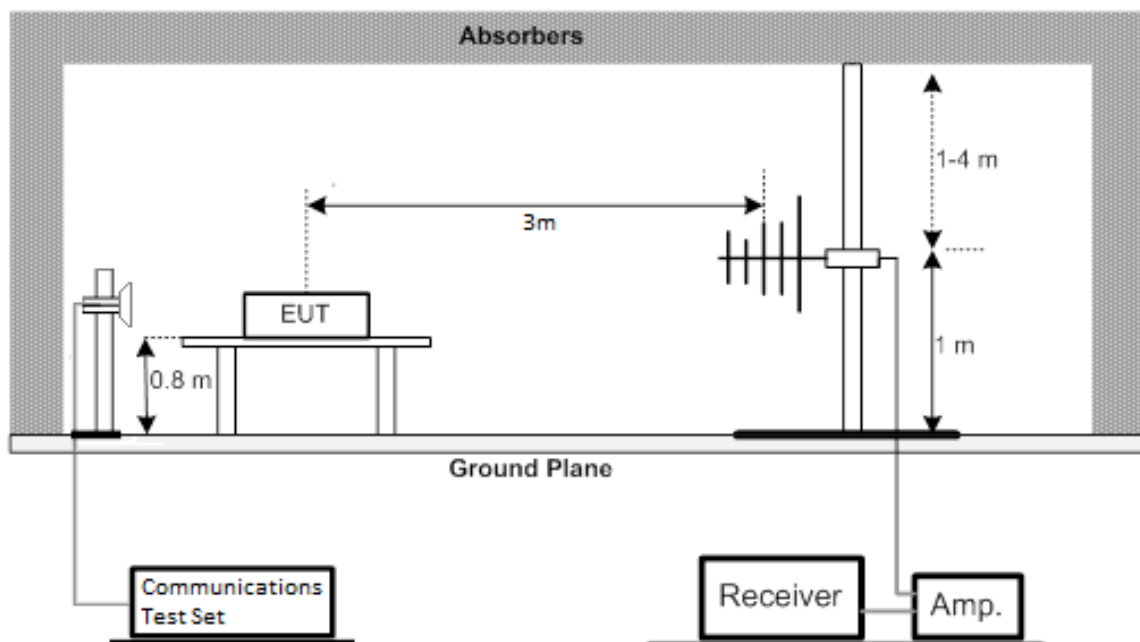
1. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
3. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
4. ERP can be calculated form EIRP by subtracting the gain of dipole, $ERP = EIPR - 2.15\text{dBi}.$
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

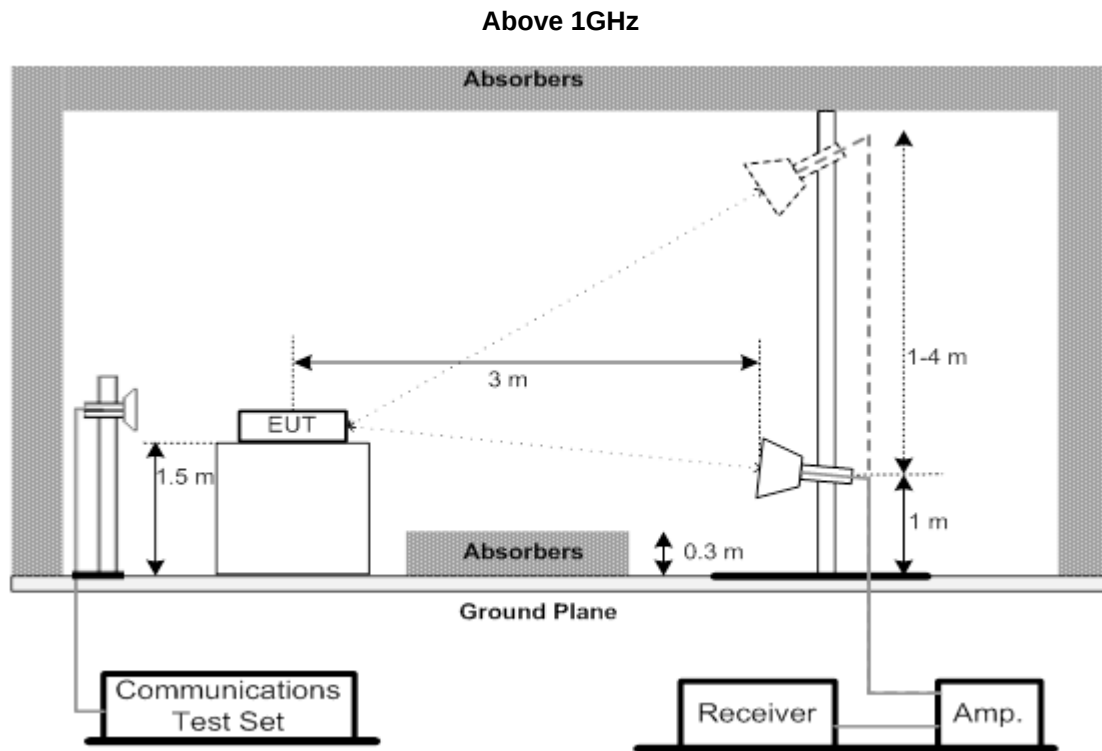
3.4.3 TEST SETUP LAYOUT

Below 30MHz



30MHz to 1GHz





3.4.4 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX D.

3.4.5 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX E.

3.4.6 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX F.

3.5 BAND EDGE MEASUREMENT

3.5.1 LIMIT

The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. (Part 27 Subpart L)

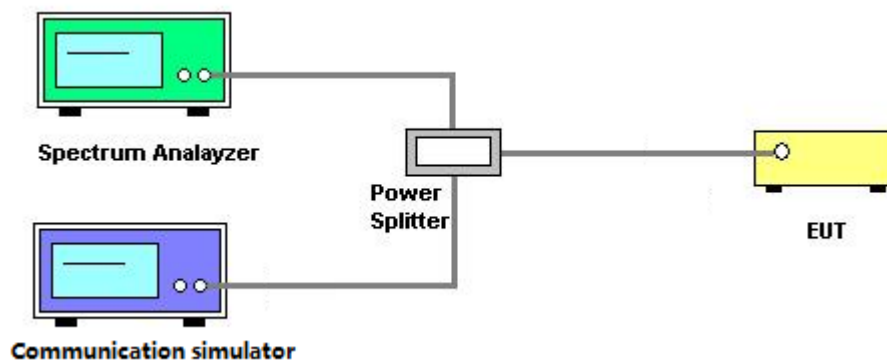
For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. 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. (Part 27 Subpart M)

3.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

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

3.5.3 TEST SETUP LAYOUT



3.5.4 TEST DEVIATION

No deviation

3.5.5 TEST RESULTS

Please refer to the APPENDIX G.

3.6 PEAK TO AVERAGE RATIO MEASUREMENT

3.6.1 LIMIT

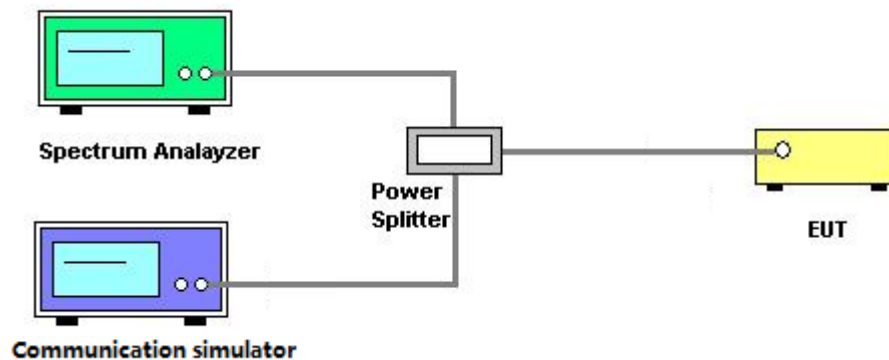
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7.

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%.

3.6.3 TEST SETUP LAYOUT



3.6.4 TEST DEVIATION

No deviation

3.6.5 TEST RESULTS

Please refer to the APPENDIX H.

3.7 FREQUENCY STABILITY MEASUREMENT

3.7.1 LIMIT

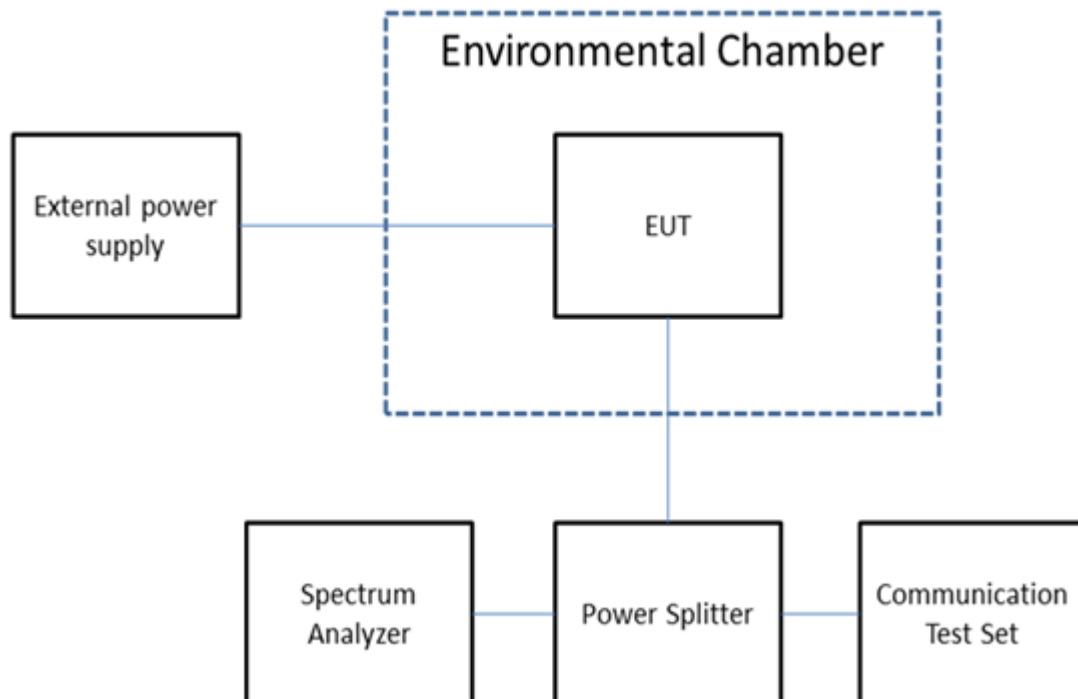
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 TEST PROCEDURES

The testing follows 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.

3.7.3 TEST SETUP LAYOUT



3.7.4 TEST DEVIATION

No deviation

3.7.5 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	MXE EMI Receiver	Keysight	N9038A	MY56400091	Jan. 22, 2022 Jan. 22, 2023
2*	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 23, 2024
3	Cable	N/A	RG 213/U(9kHz~1GHz)	N/A	May 27, 2022
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	966 Chamber Room	ETS	9*6*6	N/A	Jul. 17, 2022

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 15, 2022
2	Amplifier	HP	8447D	2944A08742	Jan. 22, 2022 Jan. 22, 2023
3	Cable	emci	LMR-400	N/A	Nov. 30, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2022 Jan. 22, 2023
8	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 21, 2022
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2022 Jan. 22, 2023
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Jan. 22, 2022 Jan. 22, 2023
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 16, 2022
9	Cable	N/A	A81-SMAMSMAM-12.5M	N/A	Oct. 15, 2022
10	Cable	Talent microwave	A40-2.92M2.92M-2.5M	N/A	Nov. 30, 2022
11	Filter	STI	STI15-9912	N/A	Jul. 10, 2022
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
13	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	8960 Series 10 Wireless Com Test set	Agilent	E5515E	MY52112163	Jul. 24, 2022
2	MXA Signal Analyzer	Keysight	N9020A	MY49100060	Jul. 24, 2022
3	Power Splitter	Mini-Circuits	ZFRSC-183-S+	SF103501511S	Jul. 24, 2022
4	wideband radio communication tester	R&S	CMW500	104462	Jul. 24, 2022
5	Const Temp. & Humidity Chamber	Bell	BTH-50C	20170306001	Feb. 27, 2022 Feb. 19, 2023
6*	Multi-output DC Power Supply	GW Instek	GPC-3030DN	EK880675	Jul. 25, 2023
7	Signal Analyzer	R&S	FSQ-26	200822	Feb. 27, 2022 Feb. 19, 2023

Remark: "N/A" denotes no model name, serial no. or calibration specified.

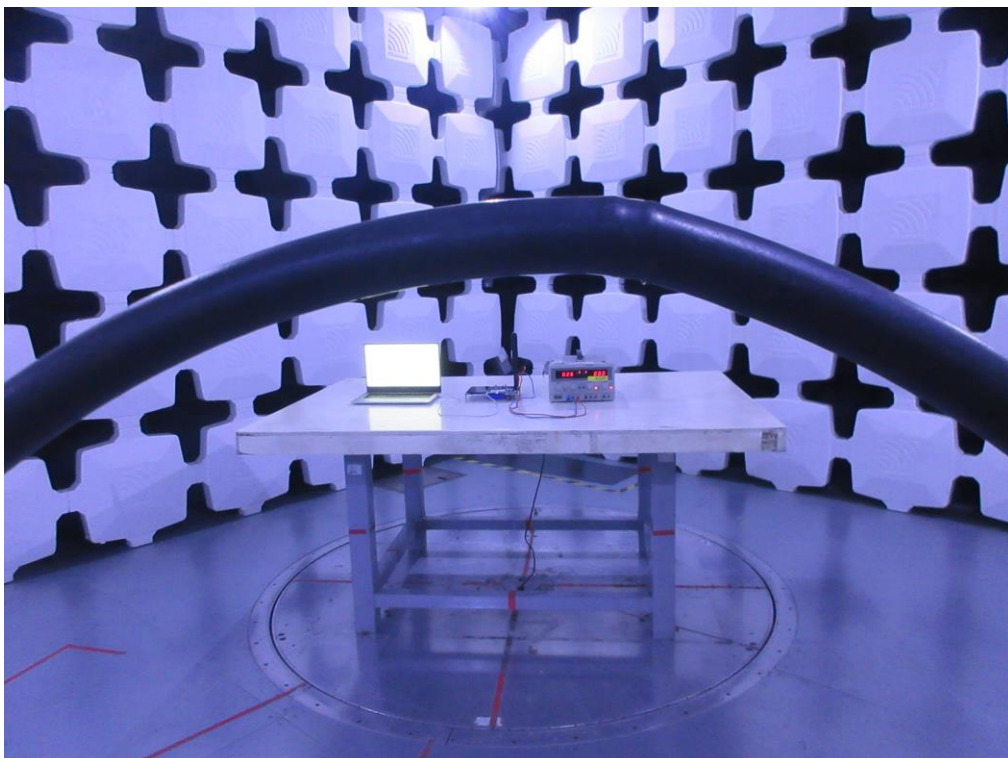
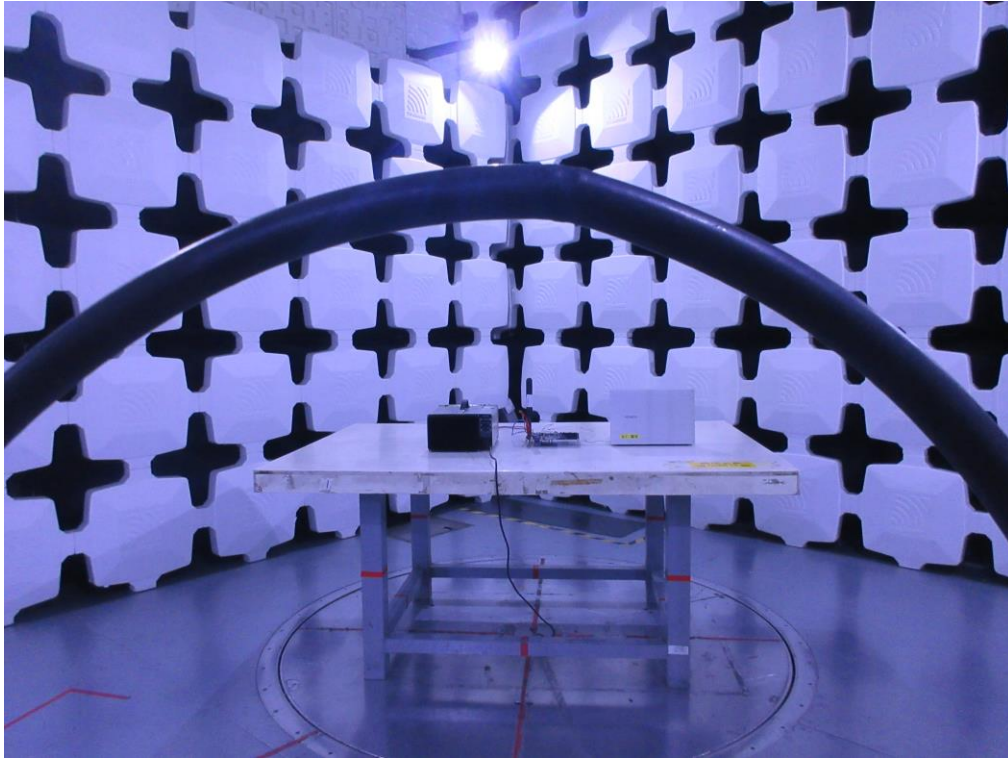
Except * item, all calibration period of equipment list is one year.

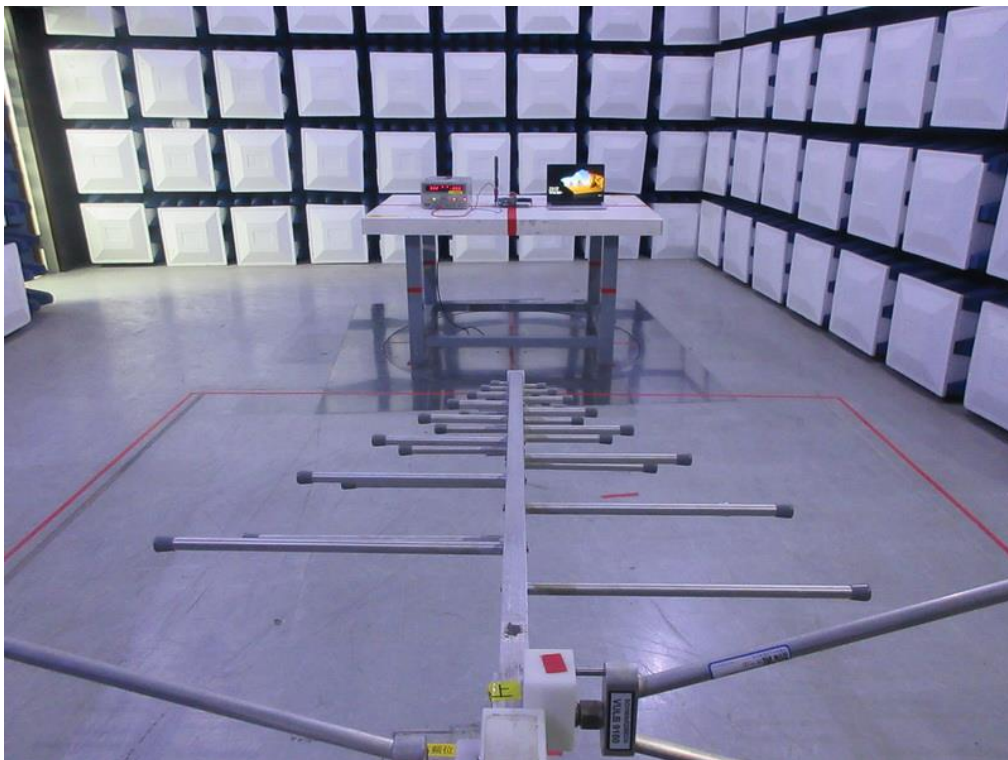
“*” calibration period of equipment list is three year.

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

Above 1 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	22.31	22.49	22.18
		1	2	22.31	22.44	22.21
		1	5	22.30	22.49	22.18
		3	0	22.25	22.28	22.40
		3	1	22.15	22.31	22.31
		3	2	22.13	22.26	22.31
		6	0	21.23	21.22	21.29
	16QAM	1	0	21.63	21.71	22.42
		1	2	21.59	21.69	22.45
		1	5	21.63	21.68	22.43
		3	0	21.32	21.78	21.83
		3	1	21.36	21.81	21.82
		3	2	21.41	21.74	21.83
		6	0	20.32	20.58	20.62
	64QAM	1	0	22.11	21.04	22.39
		1	2	22.02	20.95	22.40
		1	5	22.06	21.03	22.50
		3	0	21.22	21.35	21.45
		3	1	21.28	21.39	21.50
		3	2	21.29	21.33	21.55
		6	0	20.54	20.52	20.49

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	22.62	22.29	22.35
		1	7	22.59	22.25	22.37
		1	14	22.62	22.22	22.38
		8	0	21.26	21.12	21.11
		8	4	21.28	21.12	21.10
		8	7	21.29	21.07	21.18
		15	0	21.32	21.11	21.23
	16QAM	1	0	22.12	22.28	21.86
		1	7	22.04	22.21	21.86
		1	14	22.09	22.22	21.81
		8	0	20.43	20.67	20.45
		8	4	20.41	20.70	20.44
		8	7	20.45	20.66	20.47
		15	0	20.51	20.42	20.23
	64QAM	1	0	21.80	22.09	21.35
		1	7	21.85	22.07	21.30
		1	14	21.85	22.05	21.42
		8	0	20.71	20.50	20.59
		8	4	20.72	20.47	20.58
		8	7	20.75	20.50	20.59
		15	0	20.36	20.25	20.40

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	22.26	22.31	22.27
		1	13	22.34	22.28	22.26
		1	24	22.31	22.31	22.26
		12	0	21.30	21.23	21.35
		12	6	21.35	21.22	21.24
		12	11	21.34	21.14	21.23
		25	0	21.31	21.22	21.24
	16QAM	1	0	21.18	21.13	21.28
		1	13	21.16	21.15	21.24
		1	24	21.14	21.16	21.27
		12	0	20.36	20.37	20.45
		12	6	20.33	20.35	20.38
		12	11	20.34	20.32	20.35
		25	0	20.43	20.49	20.33
	64QAM	1	0	20.46	21.51	21.04
		1	13	20.40	21.44	20.96
		1	24	20.49	21.54	20.99
		12	0	20.44	20.31	20.29
		12	6	20.43	20.33	20.22
		12	11	20.44	20.36	20.23
		25	0	20.47	20.26	20.44

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	22.51	22.29	22.43
		1	25	22.50	22.33	22.51
		1	49	22.58	22.28	22.47
		25	0	21.33	21.23	21.26
		25	13	21.35	21.09	21.21
		25	25	21.33	21.23	21.20
		50	0	21.34	21.13	21.24
	16QAM	1	0	22.05	21.54	21.73
		1	25	22.15	21.50	21.77
		1	49	22.15	21.51	21.79
		25	0	20.38	20.44	20.44
		25	13	20.33	20.40	20.52
		25	25	20.35	20.42	20.53
		50	0	20.41	20.42	20.50
	64QAM	1	0	21.60	21.48	20.83
		1	25	21.58	21.39	20.84
		1	49	21.63	21.40	20.84
		25	0	20.44	20.39	20.58
		25	13	20.51	20.45	20.64
		25	25	20.54	20.42	20.63
		50	0	20.48	20.44	20.42

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	22.50	22.31	22.04
		1	38	22.53	22.29	22.04
		1	74	22.57	22.24	22.07
		36	0	21.33	21.21	21.26
		36	18	21.31	21.13	21.18
		36	39	21.32	21.18	21.29
		75	0	21.28	21.20	21.28
	16QAM	1	0	22.18	21.55	22.38
		1	38	22.09	21.52	22.41
		1	74	22.13	21.51	22.40
		36	0	20.36	20.55	20.43
		36	18	20.40	20.47	20.37
		36	39	20.39	20.47	20.39
		75	0	20.45	20.39	20.35
	64QAM	1	0	21.56	21.44	21.68
		1	38	21.61	21.43	21.72
		1	74	21.60	21.44	21.79
		36	0	20.56	20.48	20.47
		36	18	20.47	20.49	20.42
		36	39	20.58	20.43	20.41
		75	0	20.51	20.41	20.39

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	22.38	22.57	22.10
		1	50	22.40	22.42	22.08
		1	99	22.49	22.35	22.14
		50	0	21.24	21.25	21.23
		50	25	21.28	21.26	21.22
		50	50	21.17	21.20	21.24
		100	0	21.22	21.26	21.26
	16QAM	1	0	21.21	21.78	21.88
		1	50	21.17	21.66	21.87
		1	99	21.21	21.68	21.98
		50	0	20.46	20.49	20.42
		50	25	20.44	20.44	20.42
		50	50	20.45	20.40	20.48
		100	0	20.44	20.43	20.35
	64QAM	1	0	21.54	21.46	22.04
		1	50	21.50	21.35	22.06
		1	99	21.60	21.34	22.10
		50	0	20.43	20.46	20.41
		50	25	20.51	20.33	20.43
		50	50	20.45	20.41	20.41
		100	0	20.44	20.47	20.50

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	22.44	22.53	22.43
		1	13	22.41	22.49	22.43
		1	24	22.46	22.48	22.47
		12	0	21.51	21.36	21.50
		12	6	21.40	21.50	21.43
		12	11	21.49	21.41	21.48
		25	0	21.42	21.36	21.44
	16QAM	1	0	21.50	21.38	21.49
		1	13	21.49	21.37	21.45
		1	24	21.62	21.35	21.51
		12	0	20.57	20.55	20.68
		12	6	20.50	20.52	20.61
		12	11	20.55	20.51	20.64
		25	0	20.70	20.68	20.55
	64QAM	1	0	20.74	21.47	21.11
		1	2	20.68	21.54	21.12
		1	5	20.78	21.56	21.18
		3	0	20.63	20.52	20.47
		3	1	20.65	20.51	20.45
		3	2	20.62	20.51	20.49
		6	0	20.71	20.43	20.63

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	22.76	22.47	22.58
		1	25	22.81	22.48	22.58
		1	49	22.82	22.51	22.63
		25	0	21.50	21.41	21.53
		25	13	21.43	21.44	21.51
		25	25	21.44	21.44	21.41
		50	0	21.49	21.44	21.44
	16QAM	1	0	22.17	21.82	21.74
		1	25	22.20	21.82	21.74
		1	49	22.25	21.78	21.79
		25	0	20.56	20.64	20.72
		25	13	20.56	20.59	20.72
		25	25	20.51	20.60	20.74
		50	0	20.56	20.58	20.68
	64QAM	1	0	21.65	21.62	21.02
		1	25	21.70	21.62	21.04
		1	49	21.67	21.59	21.01
		25	0	20.70	20.59	20.76
		25	13	20.71	20.62	20.77
		25	25	20.66	20.63	20.80
		50	0	20.72	20.67	20.59

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	22.85	22.40	22.24
		1	38	22.87	22.57	22.31
		1	74	22.86	22.59	22.30
		36	0	21.50	21.40	21.42
		36	18	21.50	21.45	21.34
		36	39	21.41	21.49	21.42
		75	0	21.41	21.37	21.52
	16QAM	1	0	22.27	21.80	22.67
		1	38	22.34	21.73	22.64
		1	74	22.27	21.76	22.65
		36	0	20.62	20.70	20.59
		36	18	20.59	20.66	20.63
		36	39	20.61	20.76	20.68
		75	0	20.71	20.62	20.63
	64QAM	1	0	21.73	21.77	22.03
		1	38	21.71	21.78	22.04
		1	74	21.73	21.84	21.95
		36	0	20.68	20.63	20.63
		36	18	20.71	20.66	20.65
		36	39	20.77	20.64	20.70
		75	0	20.73	20.61	20.64

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	22.54	22.54	22.28
		1	50	22.59	22.60	22.31
		1	99	22.51	22.53	22.38
		50	0	21.47	21.50	21.35
		50	25	21.38	21.50	21.36
		50	50	21.38	21.43	21.44
		100	0	21.50	21.46	21.38
	16QAM	1	0	21.44	21.75	22.09
		1	50	21.37	21.72	22.09
		1	99	21.36	21.78	22.18
		50	0	20.70	20.62	20.59
		50	25	20.69	20.61	20.59
		50	50	20.67	20.61	20.54
		100	0	20.64	20.62	20.63
	64QAM	1	0	21.47	21.85	22.41
		1	50	21.53	21.79	22.22
		1	99	21.39	21.85	22.26
		50	0	20.67	20.54	20.59
		50	25	20.67	20.49	20.61
		50	50	20.65	20.55	20.56
		100	0	20.72	20.62	20.64

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				37775CH	38000CH	38225CH
				2572.5MHz	2595MHz	2617.5MHz
38 / 5MHz	QPSK	1	0	22.51	22.54	22.59
		1	13	22.53	22.45	22.64
		1	24	22.52	22.61	22.64
		12	0	21.54	21.56	21.71
		12	6	21.53	21.57	21.57
		12	11	21.62	21.49	21.58
		25	0	21.57	21.44	21.57
	16QAM	1	0	21.06	21.33	22.06
		1	13	20.98	21.33	22.22
		1	24	20.97	21.44	22.19
		12	0	20.81	20.57	20.75
		12	6	20.82	20.54	20.67
		12	11	20.74	20.59	20.72
		25	0	20.82	20.74	20.92
	64QAM	1	0	21.25	21.81	21.74
		1	13	21.78	21.75	21.29
		1	24	21.44	21.69	21.40
		12	0	20.61	20.56	20.75
		12	6	20.60	20.52	20.72
		12	11	20.64	20.58	20.77
		25	0	20.62	20.82	20.93

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				37800CH	38000CH	38200CH
				2575MHz	2595MHz	2615MHz
38 / 10MHz	QPSK	1	0	22.50	22.48	22.40
		1	25	22.49	22.47	22.37
		1	49	22.64	22.54	22.42
		25	0	21.66	21.62	21.52
		25	13	21.58	21.58	21.61
		25	25	21.69	21.55	21.61
		50	0	21.60	21.45	21.51
	16QAM	1	0	21.77	21.46	22.17
		1	25	21.97	21.51	22.37
		1	49	22.12	21.53	22.39
		25	0	20.57	20.66	20.88
		25	13	20.64	20.72	20.94
		25	25	20.65	20.67	20.89
		50	0	20.79	20.76	20.79
	64QAM	1	0	21.83	21.98	21.56
		1	25	21.75	21.92	21.51
		1	49	21.72	21.63	21.63
		25	0	20.91	20.70	20.85
		25	13	20.99	20.60	20.83
		25	25	20.96	20.71	20.70
		50	0	20.87	20.81	20.80

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37825CH	38000CH	38175CH
				2577.5MHz	2595MHz	2612.5MHz
38 / 15MHz	QPSK	1	0	22.54	22.47	22.61
		1	38	22.46	22.54	22.77
		1	74	22.54	22.48	22.63
		36	0	21.67	21.55	21.62
		36	18	21.55	21.43	21.60
		36	39	21.57	21.47	21.66
		75	0	21.62	21.51	21.64
	16QAM	1	0	22.01	21.50	21.77
		1	38	21.90	21.53	21.75
		1	74	22.26	21.61	21.78
		36	0	20.64	20.61	20.74
		36	18	20.54	20.67	20.89
		36	39	20.54	20.68	20.91
		75	0	20.60	20.75	20.74
	64QAM	1	0	21.78	21.93	20.83
		1	38	21.58	21.69	20.97
		1	74	21.57	22.02	21.00
		36	0	20.73	20.56	20.84
		36	18	20.74	20.54	20.99
		36	39	20.74	20.56	20.89
		75	0	20.90	20.91	20.78

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37850CH	38000CH	38150CH
				2580MHz	2595MHz	2610MHz
38 / 20MHz	QPSK	1	0	22.30	22.75	22.30
		1	50	22.47	22.75	22.39
		1	99	22.33	22.86	22.41
		50	0	21.44	21.54	21.54
		50	25	21.45	21.50	21.52
		50	50	21.55	21.58	21.51
		100	0	21.41	21.45	21.47
	16QAM	1	0	21.67	21.07	20.93
		1	50	21.62	21.11	20.90
		1	99	21.64	21.28	21.18
		50	0	20.77	20.69	20.82
		50	25	20.80	20.57	20.92
		50	50	20.72	20.64	20.89
		100	0	20.61	20.63	20.65
	64QAM	1	0	21.85	21.31	22.31
		1	50	21.70	21.39	22.26
		1	99	21.90	21.32	22.25
		50	0	20.84	20.78	20.83
		50	25	20.86	20.82	20.77
		50	50	20.78	20.76	20.75
		100	0	20.67	20.68	20.70

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				40065CH	40640CH	41215CH
				2537.5MHz	2595MHz	2652.5MHz
41 / 5MHz	QPSK	1	0	22.59	22.47	22.69
		1	13	22.58	22.42	22.72
		1	24	22.61	22.41	22.66
		12	0	21.69	21.51	21.67
		12	6	21.69	21.53	21.65
		12	11	21.61	21.42	21.62
		25	0	21.70	21.37	21.54
	16QAM	1	0	21.23	21.34	22.12
		1	13	21.20	21.35	22.19
		1	24	21.16	21.29	22.13
		12	0	20.89	20.51	20.93
		12	6	20.89	20.49	20.88
		12	11	20.93	20.54	20.84
		25	0	20.97	20.81	21.02
	64QAM	1	0	21.34	21.83	21.68
		1	13	21.91	21.78	21.70
		1	24	21.37	21.80	21.27
		12	0	20.71	20.55	20.90
		12	6	20.72	20.54	20.84
		12	11	20.78	20.44	20.92
		25	0	20.73	20.68	21.05

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				40090CH	40640CH	41190CH
				2540MHz	2595MHz	2650MHz
41 / 10MHz	QPSK	1	0	22.55	22.49	22.39
		1	25	22.50	22.54	22.53
		1	49	22.54	22.54	22.52
		25	0	21.68	21.43	21.70
		25	13	21.65	21.49	21.59
		25	25	21.77	21.47	21.62
		50	0	21.61	21.40	21.66
	16QAM	1	0	22.12	21.53	22.49
		1	25	22.10	21.53	22.62
		1	49	21.88	21.49	22.33
		25	0	20.69	20.68	20.97
		25	13	20.70	20.75	21.01
		25	25	20.66	20.70	20.91
		50	0	20.75	20.77	20.98
	64QAM	1	0	21.79	21.80	21.56
		1	25	21.70	21.86	21.74
		1	49	21.67	21.68	21.68
		25	0	20.97	20.67	20.99
		25	13	20.95	20.60	20.91
		25	25	21.03	20.69	20.92
		50	0	20.87	20.78	20.82

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				40115CH	40640CH	41165CH
				2542.5MHz	2595MHz	2647.5MHz
41 / 15MHz	QPSK	1	0	22.55	22.48	22.71
		1	38	22.58	22.52	22.78
		1	74	22.50	22.57	22.68
		36	0	21.63	21.43	21.69
		36	18	21.66	21.43	21.56
		36	39	21.75	21.43	21.69
		75	0	21.64	21.48	21.73
	16QAM	1	0	22.06	21.52	22.00
		1	38	21.90	21.53	21.95
		1	74	21.95	21.51	21.98
		36	0	20.64	20.63	20.99
		36	18	20.67	20.54	20.89
		36	39	20.75	20.52	20.91
		75	0	20.66	20.74	20.93
	64QAM	1	0	21.73	21.86	21.13
		1	38	21.77	21.84	21.07
		1	74	21.66	22.11	21.25
		36	0	20.79	20.62	21.05
		36	18	20.81	20.53	20.94
		36	39	20.87	20.65	20.96
		75	0	20.88	20.74	20.93

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				40140CH	40640CH	41140CH
				2545MHz	2595MHz	2645MHz
41 / 20MHz	QPSK	1	0	22.38	22.71	22.50
		1	50	22.27	22.81	22.50
		1	99	22.40	22.73	22.49
		50	0	21.46	21.41	21.69
		50	25	21.51	21.44	21.61
		50	50	21.56	21.55	21.73
		100	0	21.54	21.42	21.62
	16QAM	1	0	21.37	21.08	21.62
		1	50	21.39	21.10	21.50
		1	99	21.39	21.09	20.92
		50	0	20.81	20.67	20.98
		50	25	20.89	20.57	20.99
		50	50	20.81	20.65	21.06
		100	0	20.63	20.64	20.89
	64QAM	1	0	21.96	21.23	22.39
		1	50	21.90	21.33	22.37
		1	99	21.92	21.28	22.35
		50	0	20.82	20.72	20.95
		50	25	20.91	20.76	20.96
		50	50	20.94	20.82	21.03
		100	0	20.80	20.64	20.89

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	25.17	25.35	25.04
		1	2	25.17	25.30	25.07
		1	5	25.16	25.35	25.04
		3	0	25.11	25.14	25.26
		3	1	25.01	25.17	25.17
		3	2	24.99	25.12	25.17
		6	0	24.09	24.08	24.15
	16QAM	1	0	24.49	24.57	25.28
		1	2	24.45	24.55	25.31
		1	5	24.49	24.54	25.29
		3	0	24.18	24.64	24.69
		3	1	24.22	24.67	24.68
		3	2	24.27	24.60	24.69
		6	0	23.18	23.44	23.48
	64QAM	1	0	24.97	23.90	25.25
		1	2	24.88	23.81	25.26
		1	5	24.92	23.89	25.36
		3	0	24.08	24.21	24.31
		3	1	24.14	24.25	24.36
		3	2	24.15	24.19	24.41
		6	0	23.40	23.38	23.35

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	25.48	25.15	25.21
		1	7	25.45	25.11	25.23
		1	14	25.48	25.08	25.24
		8	0	24.12	23.98	23.97
		8	4	24.14	23.98	23.96
		8	7	24.15	23.93	24.04
		15	0	24.18	23.97	24.09
	16QAM	1	0	24.98	25.14	24.72
		1	7	24.90	25.07	24.72
		1	14	24.95	25.08	24.67
		8	0	23.29	23.53	23.31
		8	4	23.27	23.56	23.30
		8	7	23.31	23.52	23.33
		15	0	23.37	23.28	23.09
	64QAM	1	0	24.66	24.95	24.21
		1	7	24.71	24.93	24.16
		1	14	24.71	24.91	24.28
		8	0	23.57	23.36	23.45
		8	4	23.58	23.33	23.44
		8	7	23.61	23.36	23.45
		15	0	23.22	23.11	23.26

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	25.12	25.17	25.13
		1	13	25.20	25.14	25.12
		1	24	25.17	25.17	25.12
		12	0	24.16	24.09	24.21
		12	6	24.21	24.08	24.10
		12	11	24.20	24.00	24.09
		25	0	24.17	24.08	24.10
	16QAM	1	0	24.04	23.99	24.14
		1	13	24.02	24.01	24.10
		1	24	24.00	24.02	24.13
		12	0	23.22	23.23	23.31
		12	6	23.19	23.21	23.24
		12	11	23.20	23.18	23.21
		25	0	23.29	23.35	23.19
	64QAM	1	0	23.32	24.37	23.90
		1	13	23.26	24.30	23.82
		1	24	23.35	24.40	23.85
		12	0	23.30	23.17	23.15
		12	6	23.29	23.19	23.08
		12	11	23.30	23.22	23.09
		25	0	23.33	23.12	23.30

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	25.37	25.15	25.29
		1	25	25.36	25.19	25.37
		1	49	25.44	25.14	25.33
		25	0	24.19	24.09	24.12
		25	13	24.21	23.95	24.07
		25	25	24.19	24.09	24.06
		50	0	24.20	23.99	24.10
	16QAM	1	0	24.91	24.40	24.59
		1	25	25.01	24.36	24.63
		1	49	25.01	24.37	24.65
		25	0	23.24	23.30	23.30
		25	13	23.19	23.26	23.38
		25	25	23.21	23.28	23.39
		50	0	23.27	23.28	23.36
	64QAM	1	0	24.46	24.34	23.69
		1	25	24.44	24.25	23.70
		1	49	24.49	24.26	23.70
		25	0	23.30	23.25	23.44
		25	13	23.37	23.31	23.50
		25	25	23.40	23.28	23.49
		50	0	23.34	23.30	23.28

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	25.36	25.17	24.90
		1	38	25.39	25.15	24.90
		1	74	25.43	25.10	24.93
		36	0	24.19	24.07	24.12
		36	18	24.17	23.99	24.04
		36	39	24.18	24.04	24.15
		75	0	24.14	24.06	24.14
	16QAM	1	0	25.04	24.41	25.24
		1	38	24.95	24.38	25.27
		1	74	24.99	24.37	25.26
		36	0	23.22	23.41	23.29
		36	18	23.26	23.33	23.23
		36	39	23.25	23.33	23.25
		75	0	23.31	23.25	23.21
	64QAM	1	0	24.42	24.30	24.54
		1	38	24.47	24.29	24.58
		1	74	24.46	24.30	24.65
		36	0	23.42	23.34	23.33
		36	18	23.33	23.35	23.28
		36	39	23.44	23.29	23.27
		75	0	23.37	23.27	23.25

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	25.24	25.43	24.96
		1	50	25.26	25.28	24.94
		1	99	25.35	25.21	25.00
		50	0	24.10	24.11	24.09
		50	25	24.14	24.12	24.08
		50	50	24.03	24.06	24.10
		100	0	24.08	24.12	24.12
	16QAM	1	0	24.07	24.64	24.74
		1	50	24.03	24.52	24.73
		1	99	24.07	24.54	24.84
		50	0	23.32	23.35	23.28
		50	25	23.30	23.30	23.28
		50	50	23.31	23.26	23.34
		100	0	23.30	23.29	23.21
	64QAM	1	0	24.40	24.32	24.90
		1	50	24.36	24.21	24.92
		1	99	24.46	24.20	24.96
		50	0	23.29	23.32	23.27
		50	25	23.37	23.19	23.29
		50	50	23.31	23.27	23.27
		100	0	23.30	23.33	23.36

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	23.51	23.60	23.50
		1	13	23.48	23.56	23.50
		1	24	23.53	23.55	23.54
		12	0	22.58	22.43	22.57
		12	6	22.47	22.57	22.50
		12	11	22.56	22.48	22.55
		25	0	22.49	22.43	22.51
	16QAM	1	0	22.57	22.45	22.56
		1	13	22.56	22.44	22.52
		1	24	22.69	22.42	22.58
		12	0	21.64	21.62	21.75
		12	6	21.57	21.59	21.68
		12	11	21.62	21.58	21.71
		25	0	21.77	21.75	21.62
	64QAM	1	0	21.81	22.54	22.18
		1	2	21.75	22.61	22.19
		1	5	21.85	22.63	22.25
		3	0	21.70	21.59	21.54
		3	1	21.72	21.58	21.52
		3	2	21.69	21.58	21.56
		6	0	21.78	21.50	21.70

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	23.83	23.54	23.65
		1	25	23.88	23.55	23.65
		1	49	23.89	23.58	23.70
		25	0	22.57	22.48	22.60
		25	13	22.50	22.51	22.58
		25	25	22.51	22.51	22.48
		50	0	22.56	22.51	22.51
	16QAM	1	0	23.24	22.89	22.81
		1	25	23.27	22.89	22.81
		1	49	23.32	22.85	22.86
		25	0	21.63	21.71	21.79
		25	13	21.63	21.66	21.79
		25	25	21.58	21.67	21.81
		50	0	21.63	21.65	21.75
	64QAM	1	0	22.72	22.69	22.09
		1	25	22.77	22.69	22.11
		1	49	22.74	22.66	22.08
		25	0	21.77	21.66	21.83
		25	13	21.78	21.69	21.84
		25	25	21.73	21.70	21.87
		50	0	21.79	21.74	21.66

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	23.92	23.47	23.31
		1	38	23.94	23.64	23.38
		1	74	23.93	23.66	23.37
		36	0	22.57	22.47	22.49
		36	18	22.57	22.52	22.41
		36	39	22.48	22.56	22.49
		75	0	22.48	22.44	22.59
	16QAM	1	0	23.34	22.87	23.74
		1	38	23.41	22.80	23.71
		1	74	23.34	22.83	23.72
		36	0	21.69	21.77	21.66
		36	18	21.66	21.73	21.70
		36	39	21.68	21.83	21.75
		75	0	21.78	21.69	21.70
	64QAM	1	0	22.80	22.84	23.10
		1	38	22.78	22.85	23.11
		1	74	22.80	22.91	23.02
		36	0	21.75	21.70	21.70
		36	18	21.78	21.73	21.72
		36	39	21.84	21.71	21.77
		75	0	21.80	21.68	21.71

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	23.61	23.61	23.35
		1	50	23.66	23.67	23.38
		1	99	23.58	23.60	23.45
		50	0	22.54	22.57	22.42
		50	25	22.45	22.57	22.43
		50	50	22.45	22.50	22.51
		100	0	22.57	22.53	22.45
	16QAM	1	0	22.51	22.82	23.16
		1	50	22.44	22.79	23.16
		1	99	22.43	22.85	23.25
		50	0	21.77	21.69	21.66
		50	25	21.76	21.68	21.66
		50	50	21.74	21.68	21.61
		100	0	21.71	21.69	21.70
	64QAM	1	0	22.54	22.92	23.48
		1	50	22.60	22.86	23.29
		1	99	22.46	22.92	23.33
		50	0	21.74	21.61	21.66
		50	25	21.74	21.56	21.68
		50	50	21.72	21.62	21.63
		100	0	21.79	21.69	21.71

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37775CH	38000CH	38225CH
				2572.5MHz	2595MHz	2617.5MHz
38 / 5MHz	QPSK	1	0	23.44	23.47	23.52
		1	13	23.46	23.38	23.57
		1	24	23.45	23.54	23.57
		12	0	22.47	22.49	22.64
		12	6	22.46	22.50	22.50
		12	11	22.55	22.42	22.51
		25	0	22.50	22.37	22.50
	16QAM	1	0	21.99	22.26	22.99
		1	13	21.91	22.26	23.15
		1	24	21.90	22.37	23.12
		12	0	21.74	21.50	21.68
		12	6	21.75	21.47	21.60
		12	11	21.67	21.52	21.65
		25	0	21.75	21.67	21.85
	64QAM	1	0	22.18	22.74	22.67
		1	13	22.71	22.68	22.22
		1	24	22.37	22.62	22.33
		12	0	21.54	21.49	21.68
		12	6	21.53	21.45	21.65
		12	11	21.57	21.51	21.70
		25	0	21.55	21.75	21.86

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37800CH	38000CH	38200CH
				2575MHz	2595MHz	2615MHz
38 / 10MHz	QPSK	1	0	23.43	23.41	23.33
		1	25	23.42	23.40	23.30
		1	49	23.57	23.47	23.35
		25	0	22.59	22.55	22.45
		25	13	22.51	22.51	22.54
		25	25	22.62	22.48	22.54
		50	0	22.53	22.38	22.44
	16QAM	1	0	22.70	22.39	23.10
		1	25	22.90	22.44	23.30
		1	49	23.05	22.46	23.32
		25	0	21.50	21.59	21.81
		25	13	21.57	21.65	21.87
		25	25	21.58	21.60	21.82
		50	0	21.72	21.69	21.72
	64QAM	1	0	22.76	22.91	22.49
		1	25	22.68	22.85	22.44
		1	49	22.65	22.56	22.56
		25	0	21.84	21.63	21.78
		25	13	21.92	21.53	21.76
		25	25	21.89	21.64	21.63
		50	0	21.80	21.74	21.73

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37825CH	38000CH	38175CH
				2577.5MHz	2595MHz	2612.5MHz
38 / 15MHz	QPSK	1	0	23.47	23.40	23.54
		1	38	23.39	23.47	23.70
		1	74	23.47	23.41	23.56
		36	0	22.60	22.48	22.55
		36	18	22.48	22.36	22.53
		36	39	22.50	22.40	22.59
		75	0	22.55	22.44	22.57
	16QAM	1	0	22.94	22.43	22.70
		1	38	22.83	22.46	22.68
		1	74	23.19	22.54	22.71
		36	0	21.57	21.54	21.67
		36	18	21.47	21.60	21.82
		36	39	21.47	21.61	21.84
		75	0	21.53	21.68	21.67
	64QAM	1	0	22.71	22.86	21.76
		1	38	22.51	22.62	21.90
		1	74	22.50	22.95	21.93
		36	0	21.66	21.49	21.77
		36	18	21.67	21.47	21.92
		36	39	21.67	21.49	21.82
		75	0	21.83	21.84	21.71

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				37850CH	38000CH	38150CH
				2580MHz	2595MHz	2610MHz
38 / 20MHz	QPSK	1	0	23.23	23.68	23.23
		1	50	23.40	23.68	23.32
		1	99	23.26	23.79	23.34
		50	0	22.37	22.47	22.47
		50	25	22.38	22.43	22.45
		50	50	22.48	22.51	22.44
		100	0	22.34	22.38	22.40
	16QAM	1	0	22.60	22.00	21.86
		1	50	22.55	22.04	21.83
		1	99	22.57	22.21	22.11
		50	0	21.70	21.62	21.75
		50	25	21.73	21.50	21.85
		50	50	21.65	21.57	21.82
		100	0	21.54	21.56	21.58
	64QAM	1	0	22.78	22.24	23.24
		1	50	22.63	22.32	23.19
		1	99	22.83	22.25	23.18
		50	0	21.77	21.71	21.76
		50	25	21.79	21.75	21.70
		50	50	21.71	21.69	21.68
		100	0	21.60	21.61	21.63

LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				40065CH	40640CH	41215CH
				2537.5MHz	2595MHz	2652.5MHz
41 / 5MHz	QPSK	1	0	24.11	23.99	24.21
		1	13	24.10	23.94	24.24
		1	24	24.13	23.93	24.18
		12	0	23.21	23.03	23.19
		12	6	23.21	23.05	23.17
		12	11	23.13	22.94	23.14
		25	0	23.22	22.89	23.06
	16QAM	1	0	22.75	22.86	23.64
		1	13	22.72	22.87	23.71
		1	24	22.68	22.81	23.65
		12	0	22.41	22.03	22.45
		12	6	22.41	22.01	22.40
		12	11	22.45	22.06	22.36
		25	0	22.49	22.33	22.54
	64QAM	1	0	22.86	23.35	23.20
		1	13	23.43	23.30	23.22
		1	24	22.89	23.32	22.79
		12	0	22.23	22.07	22.42
		12	6	22.24	22.06	22.36
		12	11	22.30	21.96	22.44
		25	0	22.25	22.20	22.57

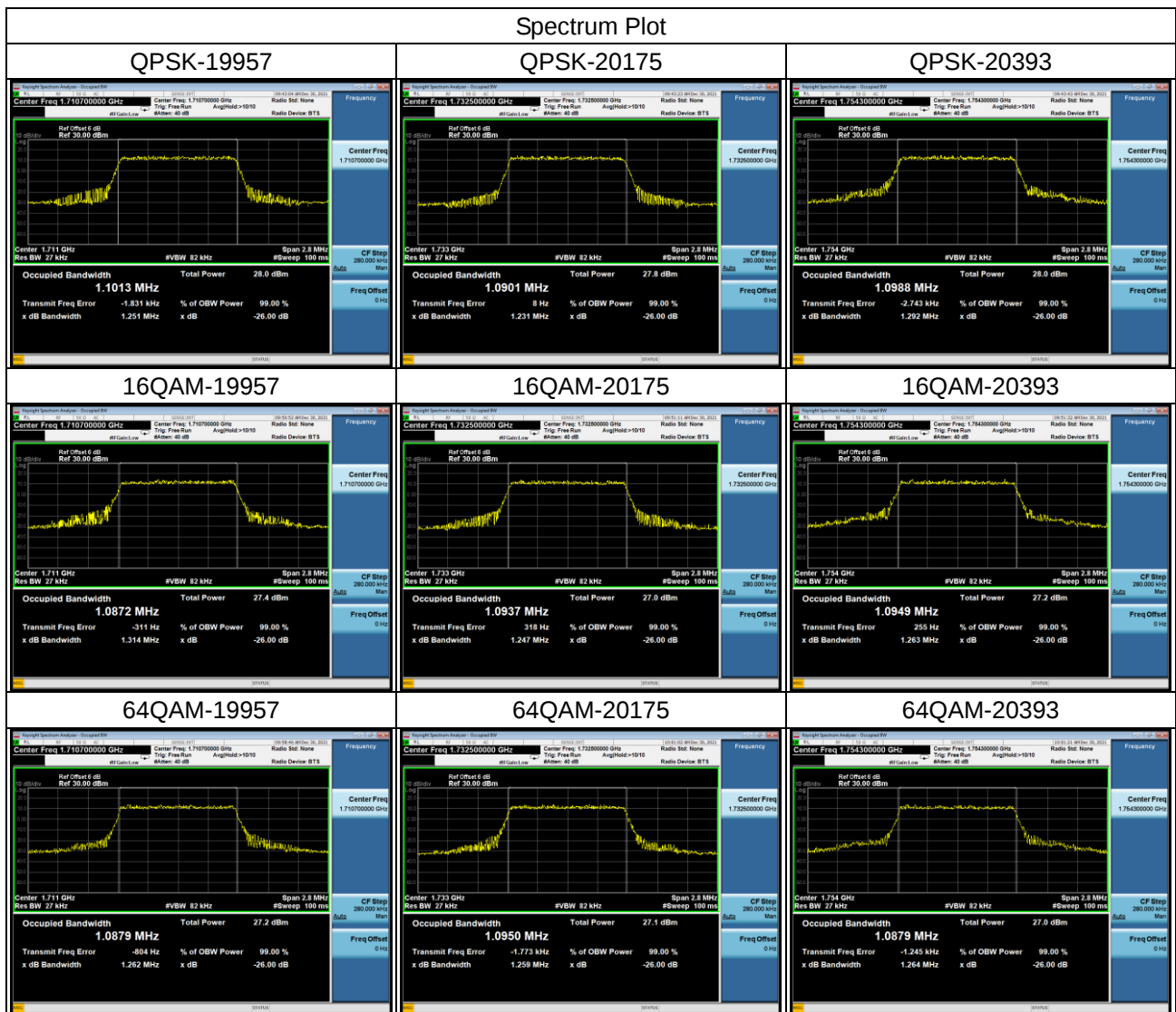
LTE Band / BW	Modulation	RB Sizer	RB Offset	Low CH	Mid CH	High CH
				40090CH	40640CH	41190CH
				2540MHz	2595MHz	2650MHz
41 / 10MHz	QPSK	1	0	24.07	24.01	23.91
		1	25	24.02	24.06	24.05
		1	49	24.06	24.06	24.04
		25	0	23.20	22.95	23.22
		25	13	23.17	23.01	23.11
		25	25	23.29	22.99	23.14
		50	0	23.13	22.92	23.18
	16QAM	1	0	23.64	23.05	24.01
		1	25	23.62	23.05	24.14
		1	49	23.40	23.01	23.85
		25	0	22.21	22.20	22.49
		25	13	22.22	22.27	22.53
		25	25	22.18	22.22	22.43
		50	0	22.27	22.29	22.50
	64QAM	1	0	23.31	23.32	23.08
		1	25	23.22	23.38	23.26
		1	49	23.19	23.20	23.20
		25	0	22.49	22.19	22.51
		25	13	22.47	22.12	22.43
		25	25	22.55	22.21	22.44
		50	0	22.39	22.30	22.34

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				40115CH	40640CH	41165CH
				2542.5MHz	2595MHz	2647.5MHz
41 / 15MHz	QPSK	1	0	24.07	24.00	24.23
		1	38	24.10	24.04	24.30
		1	74	24.02	24.09	24.20
		36	0	23.15	22.95	23.21
		36	18	23.18	22.95	23.08
		36	39	23.27	22.95	23.21
		75	0	23.16	23.00	23.25
	16QAM	1	0	23.58	23.04	23.52
		1	38	23.42	23.05	23.47
		1	74	23.47	23.03	23.50
		36	0	22.16	22.15	22.51
		36	18	22.19	22.06	22.41
		36	39	22.27	22.04	22.43
		75	0	22.18	22.26	22.45
	64QAM	1	0	23.25	23.38	22.65
		1	38	23.29	23.36	22.59
		1	74	23.18	23.63	22.77
		36	0	22.31	22.14	22.57
		36	18	22.33	22.05	22.46
		36	39	22.39	22.17	22.48
		75	0	22.40	22.26	22.45

LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				40140CH	40640CH	41140CH
				2545MHz	2595MHz	2645MHz
41 / 20MHz	QPSK	1	0	23.90	24.23	24.02
		1	50	23.79	24.33	24.02
		1	99	23.92	24.25	24.01
		50	0	22.98	22.93	23.21
		50	25	23.03	22.96	23.13
		50	50	23.08	23.07	23.25
		100	0	23.06	22.94	23.14
	16QAM	1	0	22.89	22.60	23.14
		1	50	22.91	22.62	23.02
		1	99	22.91	22.61	22.44
		50	0	22.33	22.19	22.50
		50	25	22.41	22.09	22.51
		50	50	22.33	22.17	22.58
		100	0	22.15	22.16	22.41
	64QAM	1	0	23.48	22.75	23.91
		1	50	23.42	22.85	23.89
		1	99	23.44	22.80	23.87
		50	0	22.34	22.24	22.47
		50	25	22.43	22.28	22.48
		50	50	22.46	22.34	22.55
		100	0	22.32	22.16	22.41

APPENDIX B - OCCUPIED BANDWIDTH

LTE Band 4_1.4MHz							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
19957	1710.7	1.1013	1.0872	1.0879	1.251	1.314	1.262
20175	1732.5	1.0901	1.0937	1.0950	1.231	1.247	1.259
20393	1754.3	1.0988	1.0949	1.0879	1.292	1.263	1.264



LTE Band 4_3MHz							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
19965	1711.5	2.7119	2.7036	2.7159	3.230	3.107	3.116
20175	1732.5	2.7106	2.7108	2.7021	3.126	3.126	3.130
20385	1753.5	2.7123	2.7175	2.7088	3.087	3.249	3.115

