



FCC Radio Test Report

FCC ID: 2APJ4-SLM770A

This report concerns: Original Grant

Project No. : 2402C072
Equipment : 4G LTE Module
Brand Name : MEIGLink
Test Model : SLM770A
Series Model : N/A
Applicant : MeiG Smart Technology Co., Ltd
Address : 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China
Manufacturer : MeiG Smart Technology Co., Ltd
Address : 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China
Factory : Feb. 07, 2024
Address : Feb. 18, 2024 ~ Apr. 29, 2024
Issued Date : Apr. 30, 2024
Report Version : R00
Test Sample : Engineering Sample No.: SSL2024020714 for radiated, SSL2024020714 and SSL2024020715 for conducted.
Standard(s) : 47 CFR FCC Part 27 Subpart L
47 CFR FCC Part 27 Subpart M
47 CFR FCC Part 27 Subpart D
47 CFR FCC Part 2

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

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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 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.

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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.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2402C072	R00	Original Report.	Apr. 30, 2024	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, D & 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

The test facilities used to collect the test data 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 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)
SSL-CB01	CISPR	9kHz ~ 30MHz	2.74

Test Site	Method	Measurement Frequency Range	Ant. H / V	U_i (dB)
SSL-CB01 (3m)	CISPR	30MHz ~ 200MHz	V	4.70
		30MHz ~ 200MHz	H	3.56
		200MHz ~ 1,000MHz	V	4.92
		200MHz ~ 1,000MHz	H	4.54

Test Site	Method	Measurement Frequency Range	U_i (dB)
SSL-CB01 (3m)	CISPR	1GHz ~ 6GHz	4.56
		6GHz ~ 18GHz	5.14

Test Site	Method	Measurement Frequency Range	U_i (dB)
SSL-CB01 (1m)	CISPR	18 ~ 26.5 GHz	3.30

B. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	±3.8 %
Maximum Output Power	±0.95 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.

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
Output Power & EIRP	23-26.2°C	40-42%	DC 3.8V	Gana Cai	Feb. 20, 2024~ Feb. 26, 2024
Occupied Bandwidth	23-26.2°C	40-42%	DC 3.8V	Gana Cai	Feb. 20, 2024~ Feb. 26, 2024
Conducted Spurious Emissions	23-26.2°C	40-42%	DC 3.8V	Gana Cai	Feb. 20, 2024~ Feb. 26, 2024
Radiated Spurious Emissions (9 kHz to 30 MHz)	25°C	60%	DC 3.8V	Max Wang	Feb. 25, 2024 Feb. 27, 2024
Radiated Spurious Emissions (30 MHz to 1000 MHz)	23°C	50%	DC 3.8V	Max Wang	Feb. 25, 2024 Feb. 27, 2024
Radiated Spurious Emissions (Above 1000 MHz)	23°C	46-50%	DC 3.8V	Max Wang	Feb. 25, 2024
Band Edge	23-26.2°C	40-42%	DC 3.8V	Gana Cai	Feb. 20, 2024~ Feb. 26, 2024 Apr. 28, 2024
Peak To Average Ratio	23-26.2°C	40-42%	DC 3.8V	Gana Cai	Feb. 20, 2024~ Feb. 26, 2024 Apr. 28, 2024
Frequency Stability	Normal & Extreme	40-42%	Normal & Extreme	Gana Cai	Feb. 20, 2024~ Feb. 26, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	4G LTE Module		
Brand Name	MEIGLink		
Test Model	SLM770A		
Series Model	N/A		
Model Difference(s)	N/A		
Hardware Version	SLM770A_MB_V1.02		
Software Version	SLM770A-H_3.0.1_EQ100		
Power Source	DC voltage supplied from external power supply.		
Power Rating	DC 3.8V		
IMEI No.	Radiated	861232062139917	
	Conducted	861232062139917, 861232062139503	
Modulation Type	WCDMA/HSDPA/HSUPA	UL: QPSK,16QAM DL: QPSK,16QAM,64QAM	
	LTE	UL: QPSK,16QAM DL: QPSK,16QAM,64QAM	
Max. EIRP	WCDMA Band IV	QPSK	21.89 dBm
	HSDPA Band IV	QPSK	21.32 dBm
	HSUPA Band IV	QPSK	21.79 dBm
	LTE	Channel Bandwidth (MHz)	QPSK (dBm) 16QAM (dBm)
	Band 4	1.4	22.83 22.05
		3	22.76 22.33
		5	22.72 22.04
		10	22.79 22.35
		15	22.79 22.31
		20	22.81 22.37
	Band 7	5	25.67 24.42
		10	25.44 24.23
		15	25.68 24.60
		20	25.55 24.89
	Band 40 (2305-2315MHz)	5	23.41 23.02
		10	23.43 22.97
	Band 40 (2350-2355MHz)	5	23.49 22.79
	Band 66	1.4	22.83 22.14
		3	22.79 22.02
		5	22.98 22.17
		10	23.10 22.39
		15	23.11 22.49
		20	22.97 22.63

Note:

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

2. Channel List:

WCDMA Band IV(UL: 1712.4-1752.6MHz, DL: 2112.4-2152.6MHz)				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	1312	1712.4	1537	2112.4
Mid Range	1413	1732.6	1638	2132.6
High Range	1513	1752.6	1738	2152.6

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 40(UL/DL: 2305-2315MHz)			
Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)
Low Range	5	38725	2307.5
Mid Range	5/10	38750	2310
High Range	5	38775	2312.5

LTE Band 40(UL/DL: 2350-2355MHz)			
Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)
Mid Range	5	39175	2352.5

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:

Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)	Note
ShenZhen VLG Wireless TECHNOLOG Y CO.,LTD	45-V1497 -057-01	Dipole	SMA	-1.5	WCDMA Band IV
				-1.5	LTE Band 4
				1.9	LTE Band 7
				0.2	LTE Band 40 (2305-2315MHz)
				0.4	LTE Band 40 (2350-2355MHz)
				-1.4	LTE Band 66

Note: The antenna gain is provided by the manufacturer.

3.2 DESCRIPTION OF TEST MODES

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

WCDMA BAND IV MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & EIRP	1312 to 1513	1312, 1413, 1513	WCDMA, HSDPA, HSUPA
Occupied Bandwidth	1312 to 1513	1312, 1413, 1513	WCDMA
Conducted Spurious Emissions	1312 to 1513	1413	WCDMA
Radiated Spurious Emissions	1312 to 1513	1413	WCDMA
Band Edge	1312 to 1513	1312, 1513	WCDMA
Peak To Average Ratio	1312 to 1513	1312, 1413, 1513	WCDMA
Frequency Stability	1312 to 1513	1312, 1513	WCDMA

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, 16QAM	1RB/25RB/50RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1RB/36RB/75RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1RB/50RB/100RB
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, 16QAM	50RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	75RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	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	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, 16QAM	1RB/36RB/75RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1RB/50RB/100RB
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, 16QAM	75RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	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	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 40 MODE (2305-2315MHz)

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	38725 to 38775	38725, 38750, 38775	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	38750	38750	10MHz	QPSK, 16QAM	1RB/25RB/50RB
Occupied Bandwidth	38725 to 38775	38725, 38750, 38775	5MHz	QPSK, 16QAM	25RB
	38750	38750	10MHz	QPSK, 16QAM	50RB
Band Edge	38725 to 38775	38725, 38775	5MHz	QPSK	1RB/25RB
	38750	38750	10MHz	QPSK	1RB/50RB
Conducted Emission	38725 to 38775	38750	5MHz	QPSK	1RB
	38750	38750	10MHz	QPSK	1RB
Radiated Emission	38725 to 38775	38750	5MHz	QPSK	1RB
	38750	38750	10MHz	QPSK	1RB
Peak to Average Ratio	38725 to 38775	38725, 38750, 38775	5MHz	QPSK, 16QAM	1RB
	38750	38750	10MHz	QPSK, 16QAM	1RB
Frequency Stability	38750	38750	10MHz	QPSK	50RB

LTE BAND 40 MODE (2350-2355MHz)

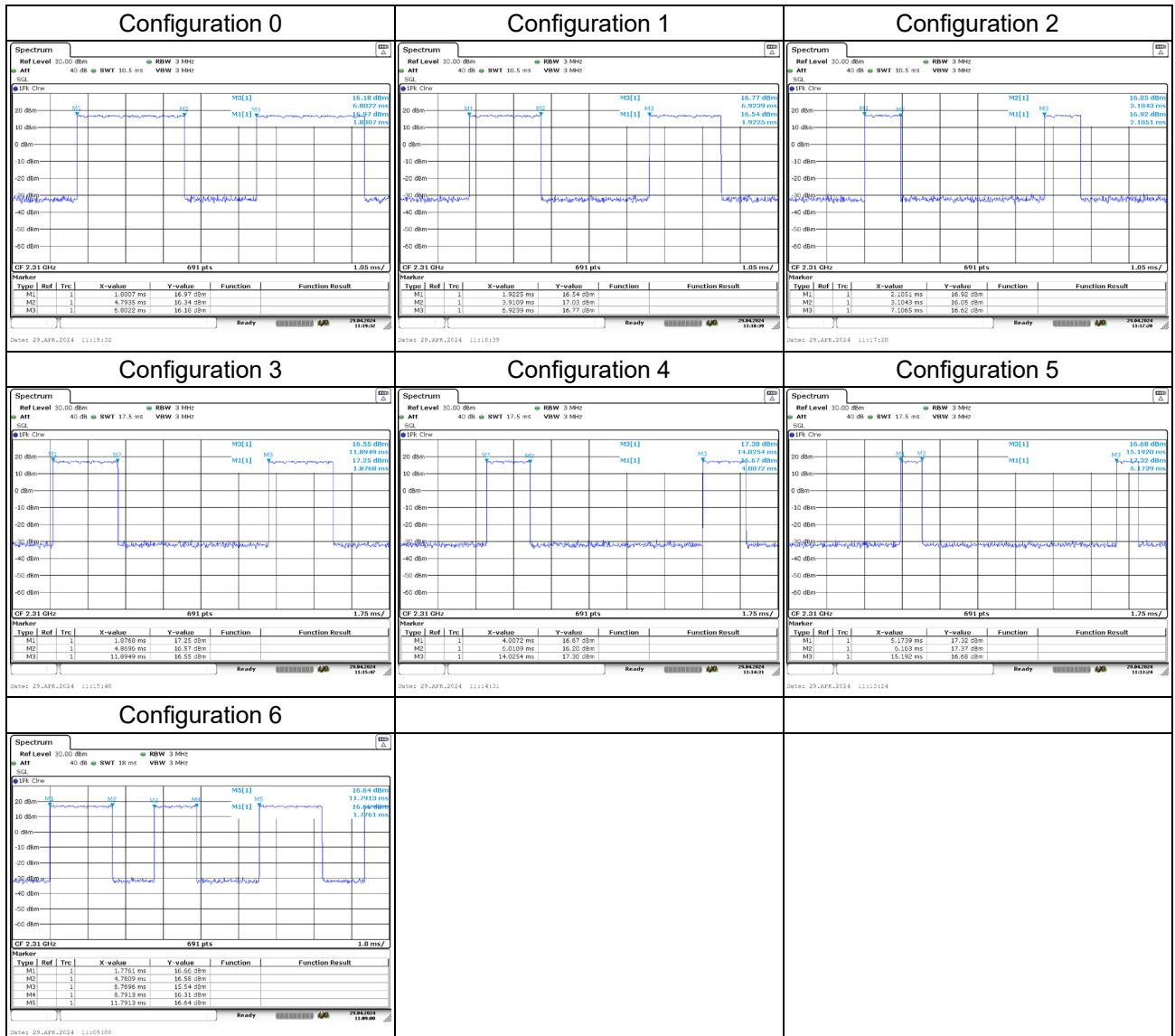
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	39175	391755	5MHz	QPSK, 16QAM	1RB/12RB/25RB
Occupied Bandwidth	39175	391755	5MHz	QPSK, 16QAM	25RB
Band Edge	39175	391755	5MHz	QPSK	1RB/25RB
Conducted Emission	39175	391755	5MHz	QPSK	1RB
Radiated Emission	39175	391755	5MHz	QPSK	1RB
Peak to Average Ratio	39175	391755	5MHz	QPSK, 16QAM	1RB
Frequency Stability	39175	391755	5MHz	QPSK	25RB

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, 16QAM	1RB/25RB/50RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM	1RB/36RB/75RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	1RB/50RB/100RB
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, 16QAM	50RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM	75 RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	100RB
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/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, 16QAM	1RB/25RB/50RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM	1RB/36RB/75RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	1RB/50RB/100RB
Frequency Stability	132072 to 132572	132072, 132572	20MHz	QPSK	100RB

3.3 DUTY CYCLE

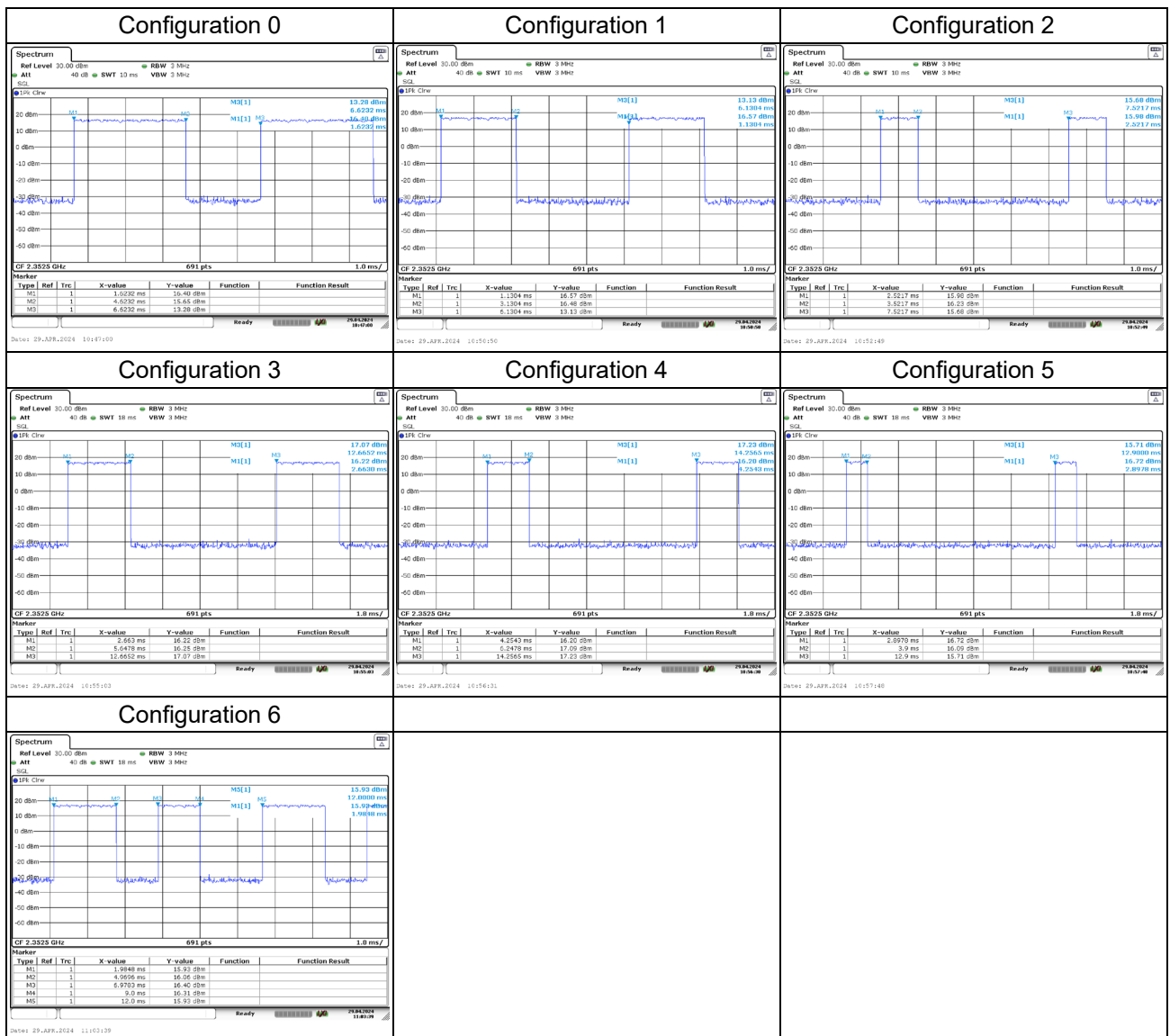
For LTE band 40 (2305-2315MHz):

Operation Band	Modulation	Bandwidth	Uplink-Downlink Configuration	Ton (ms)	Ton+off (ms)	Duty Cycle (%)
LTE Band 40	QPSK	5M	0	2.9928	5.0015	59.84
			1	1.9884	5.0014	39.76
			2	0.9992	5.0014	19.98
			3	2.9928	10.0181	29.87
			4	2.0037	10.0182	20.00
			5	0.9891	10.0181	9.87
			6	5.0065	10.0152	49.99



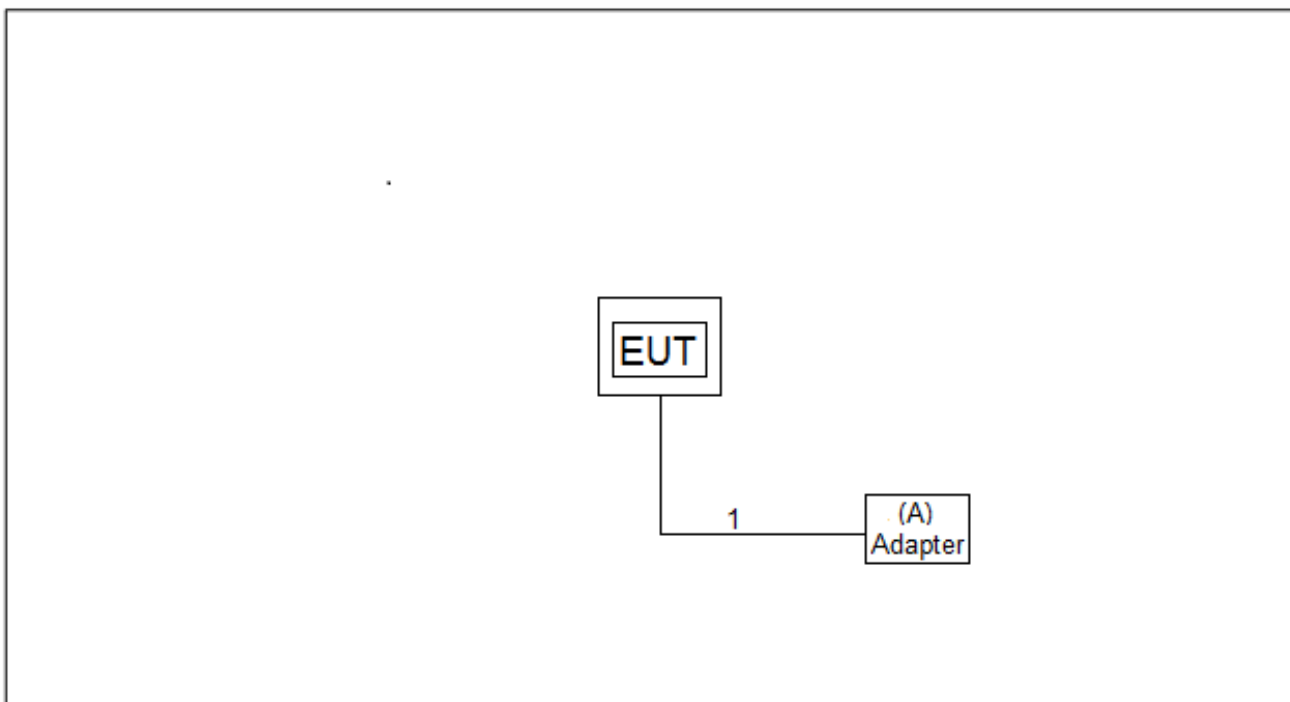
For LTE band 40 (2350-2355MHz):

Operation Band	Modulation	Bandwidth	Uplink-Downlink Configuration	Ton (ms)	Ton+off (ms)	Duty Cycle (%)
LTE Band 40	5M	QPSK	0	3	5	60
			1	2	5	40
			2	1	5	20
			3	2.9848	10.0022	29.84
			4	1.9936	10.0022	19.93
			5	1.0022	10.0022	10.02
			6	5.0065	10.0152	49.99



Note: All of the LTE Band 40 test items were tested in configuration 3.

3.4 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	BAIJUNDA	AT-506E-120100JC	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m

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.

Control stations and mobile stations transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands and fixed stations transmitting in the 787–788 MHz and 805–806 MHz bands are limited to 30 watts ERP.

Portable stations (hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

Control and mobile stations in the 698–746 MHz band are limited to 30 watts ERP.

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698–746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

For mobile and portable stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305–2315 MHz and 2350–2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305–2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

4.1.2 TEST PROCEDURE

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

EIRP:

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

ERP:

$\text{ERP} = \text{EIRP} - 2.15$

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.

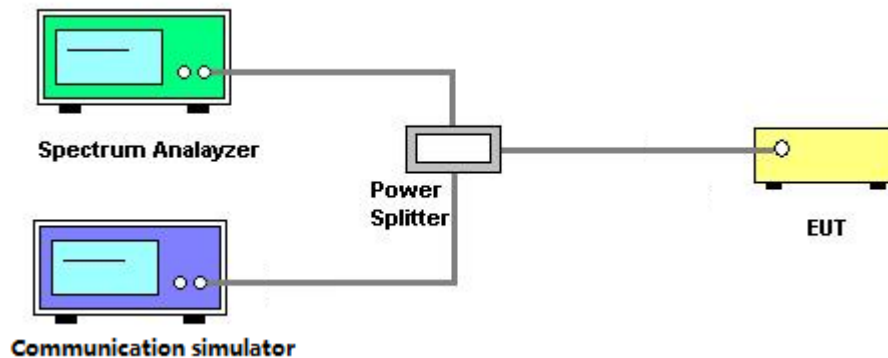
4.2 OCCUPIED BANDWIDTH MEASUREMENT

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. $RBW = (1\% \sim 5\%) \cdot EBW$
 $VBW \geq 3 \cdot RBW$
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 600MHz band and 698 -746 MHz band, 776-788 MHz band, 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.

For operations in the 2305-2315 MHz and 2350-2355 MHz bands:

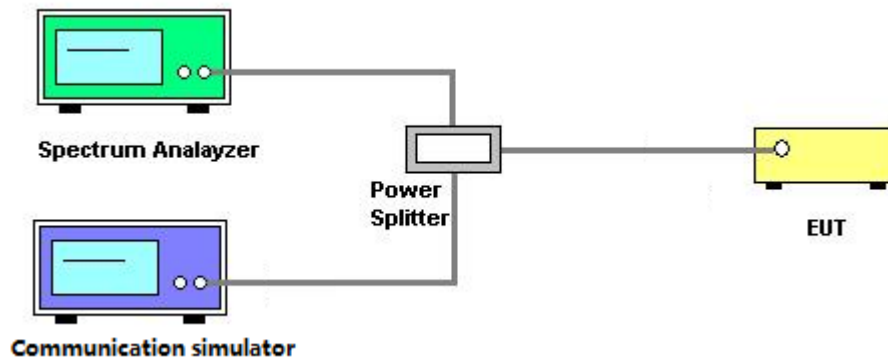
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $70 + 10 \log(P)$ dB. The emission limit equal to -40dBm.

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>=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 4,12,13,17,71,66,85, 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 13, the operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW (-50dBm) EIRP for discrete emissions of less than 700 Hz bandwidth.

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.

For Band 30,40, 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 $70 + 10 \log(P)$ dB. The emission limit equal to -40dBm.

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; 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.

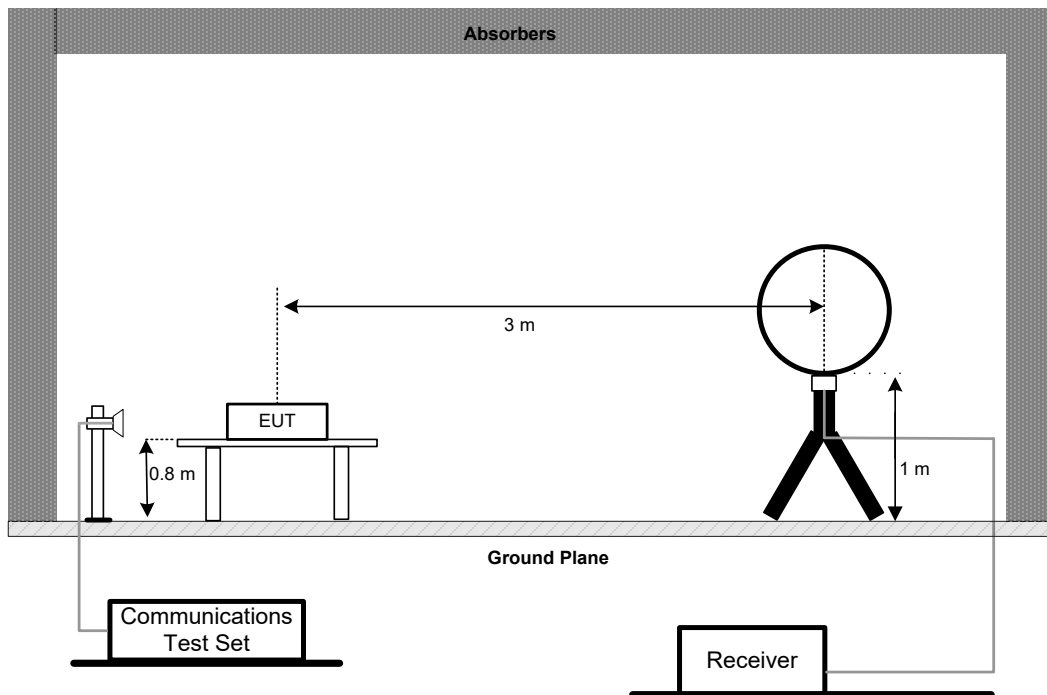
4.4.2 TEST PROCEDURES

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

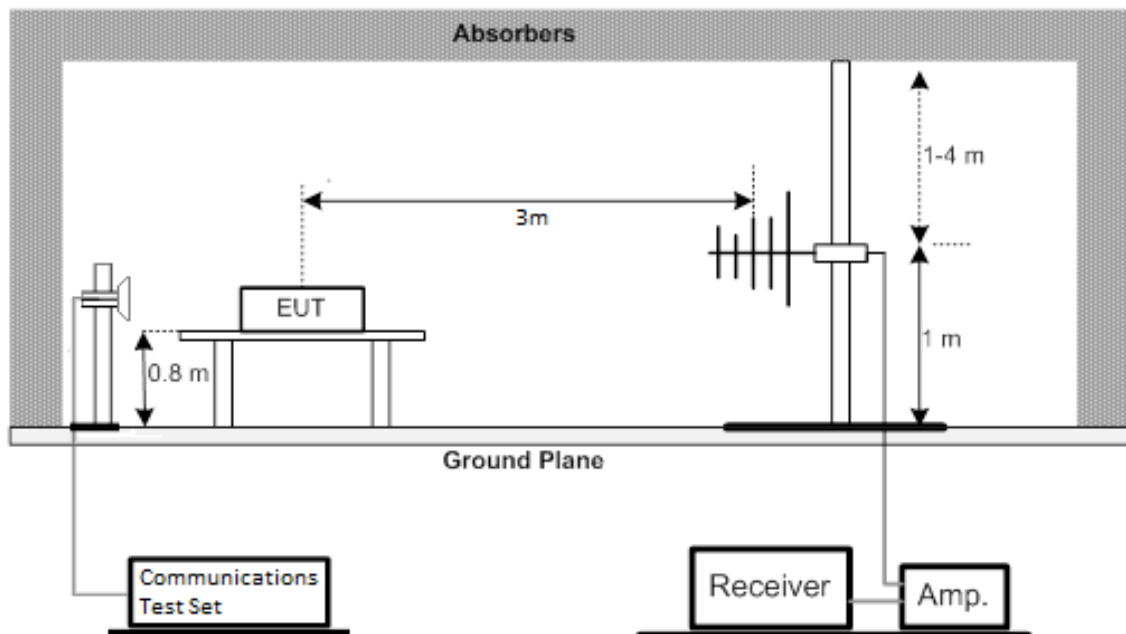
1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. During the measurement, the system simulator parameters 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.

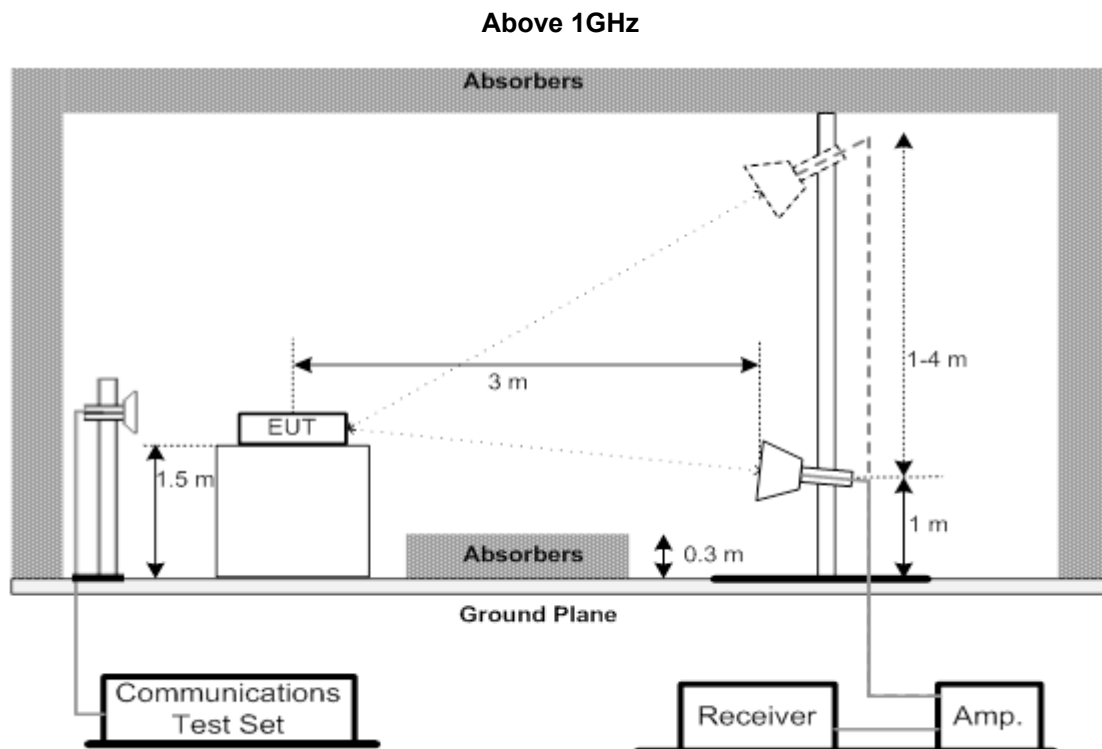
4.4.3 TEST SETUP LAYOUT

Below 30MHz



30MHz to 1GHz





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 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. 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.

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 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.

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2355 MHz bands:

(i) By a factor of

not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation,

not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz,

not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz,

and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of

not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz,

$55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz,

$61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz,

$67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz,

and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2355 MHz bands:

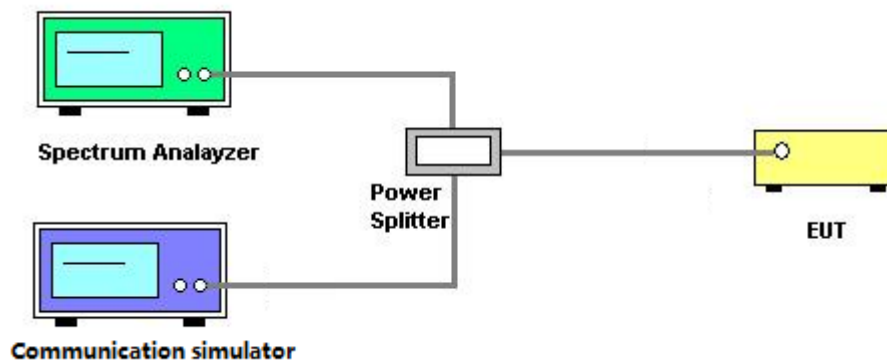
- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;
- (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

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

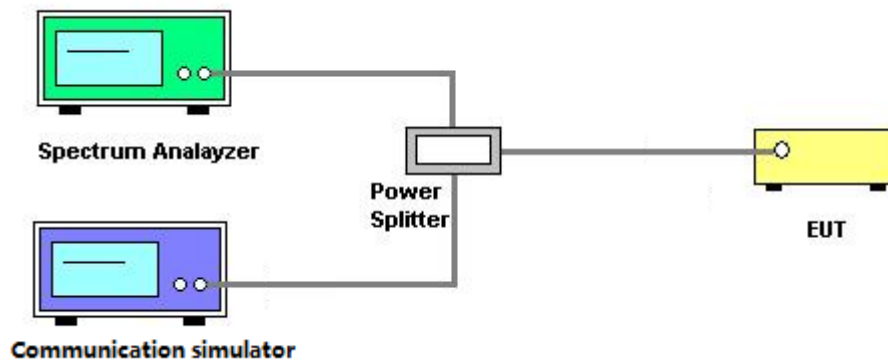
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

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

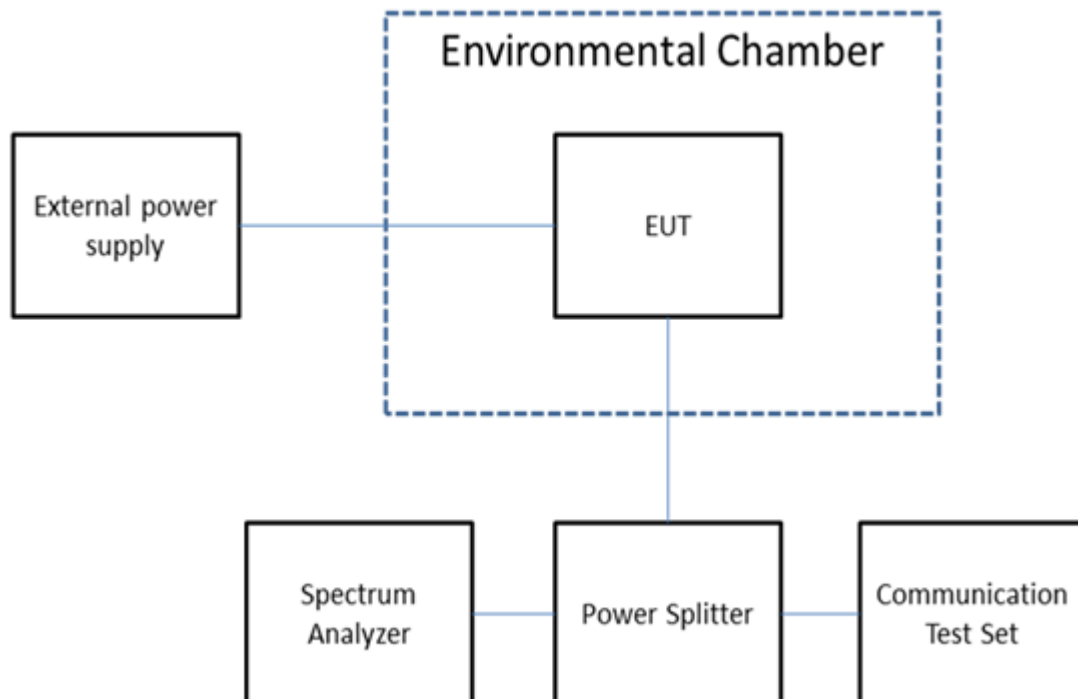
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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	1513-60-025	Apr. 01, 2024
2	MXE EMI Receiver	Keysight	N9038A	MY59050118	Sep. 26, 2024
3	Cable	EMC INSTRUMENT	EMCCFD400-N M-NM-3000	N/A	Jun. 08, 2024
4	Cable	EMC INSTRUMENT	EMCCFD400-N M-NM-7000	N/A	Jun. 08, 2024
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	01269	May 15, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AN-N0697	May 15, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	980825	Jan. 19, 2025
4	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-2500	N/A	Jun. 08, 2024
5	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-7000	N/A	Jun. 08, 2024
6	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-3000	N/A	Jun. 08, 2024
7	MXE EMI Receiver	Keysight	N9038A	MY59050118	Sep. 26, 2024
8	Positioning Controller	MF	MF-7802BS	N/A	N/A
9	Max-Full Antenna Corp	MF	MFA-560BSN	N/A	N/A
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
11	wideband radio communication tester	R&S	CMW500	164094	Jul. 07, 2024
12	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
13	966 Chamber room	Tai He	9*6*6(NSA&VSWR)	N/A	Jun. 07, 2024

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXE EMI Receiver	Keysight	N9038A	MY59050118	Sep. 26, 2024
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980739	Jan. 19, 2025
4	Cable	EMC INSTRUMENT	EMC104-SM-SM-1 0000	N/A	Jun. 08, 2024
5	Cable	EMC INSTRUMENT	EMC104-SM-SM-3 000	N/A	Jun. 08, 2024
6	Cable	EMC INSTRUMENT	EMC104-SM-SM-8 00	N/A	Jun. 08, 2024
7	Double Ridged Broadband Horn Antenna	RF SPIN	DRH18-E	210106A18E	Jul. 04, 2024
8	Preamplifier	EMC INSTRUMENT	EMC184045SE	980793	Jan. 19, 2025
9	Cable	EMC INSTRUMENT	EMC101G-KM-KM- 800	N/A	Aug. 13, 2024
10	Cable	EMC INSTRUMENT	EMC101G-KM-KM- 6000	N/A	Aug. 13, 2024
11	wideband radio communication tester	R&S	CMW500	164094	Jul. 07, 2024
12	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
13	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	1046	Jul. 05, 2024

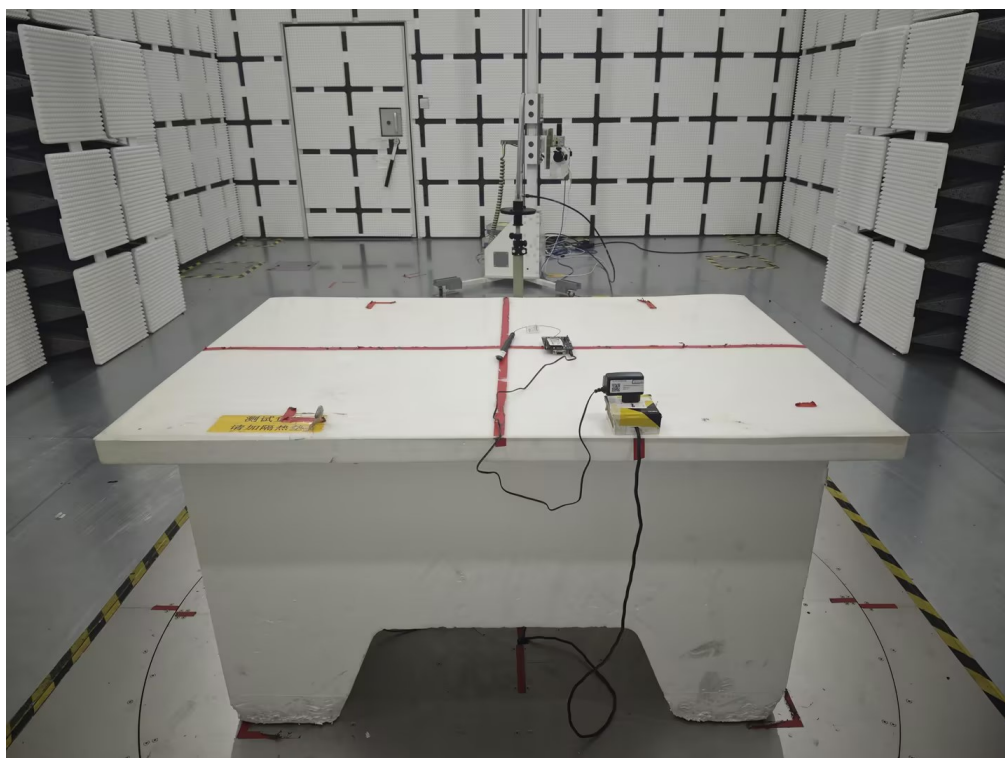
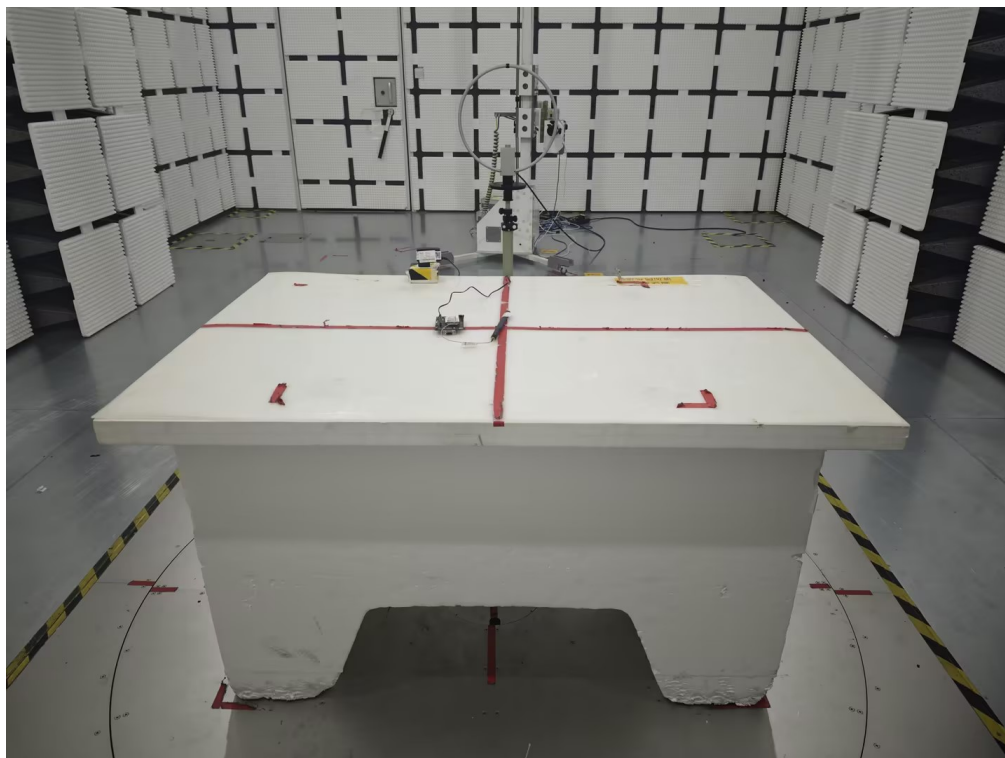
Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Wideband Radio Communication Tester	R&S	CWM 500	104462	Jul. 07, 2024
2	Wideband Radio Communication Tester	R&S	CWM 500	165578	May 11, 2024
3	Signal Analyzer	R&S	FSV 40	100948	Jul. 07, 2024
4	MXA Signal Analyzer	Agilent Technologies	N9020A	MY49100060	Jul. 07, 2024
5	Temperature Chamber	ESPEC	SU-242	93018777	Jul. 07, 2024
6	Power Splitter	N/A	N/A	SF103501511	Jan. 21, 2025
7	Cable	N/A	RWP50-4.6A-SM SM-1M	N/A	N/A
8	Cable	N/A	RWP50-4.6A-SM SM-1M	N/A	N/A
9	DC Source metter	Iteck	IT6154	00610412676820100 1	Jul. 07, 2024

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

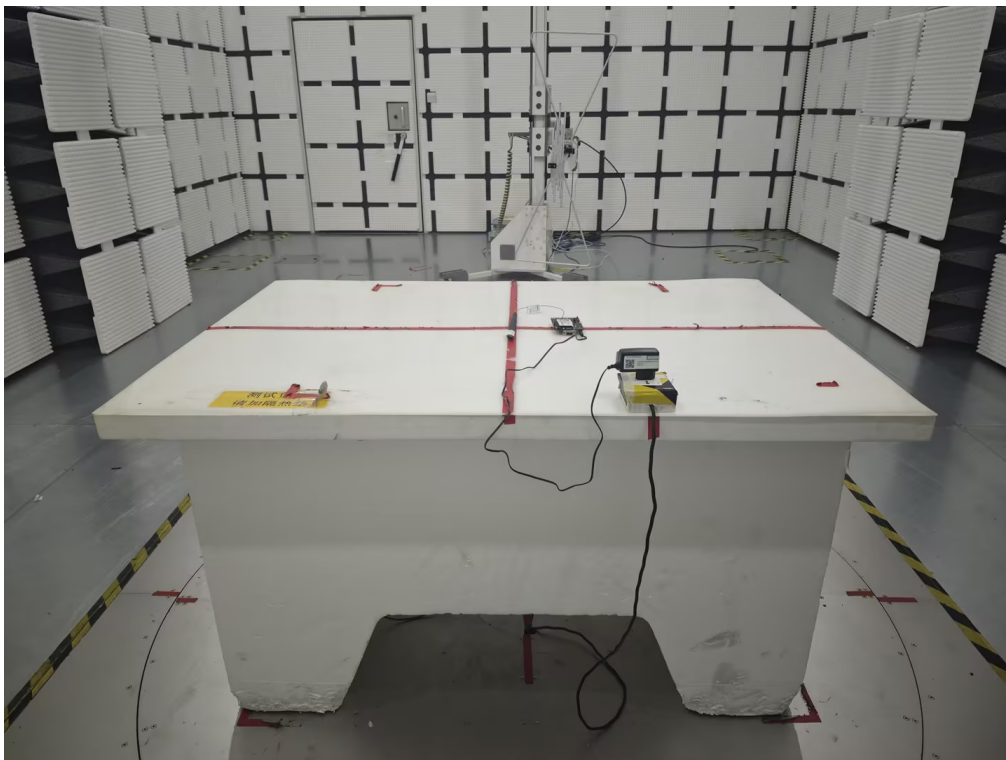
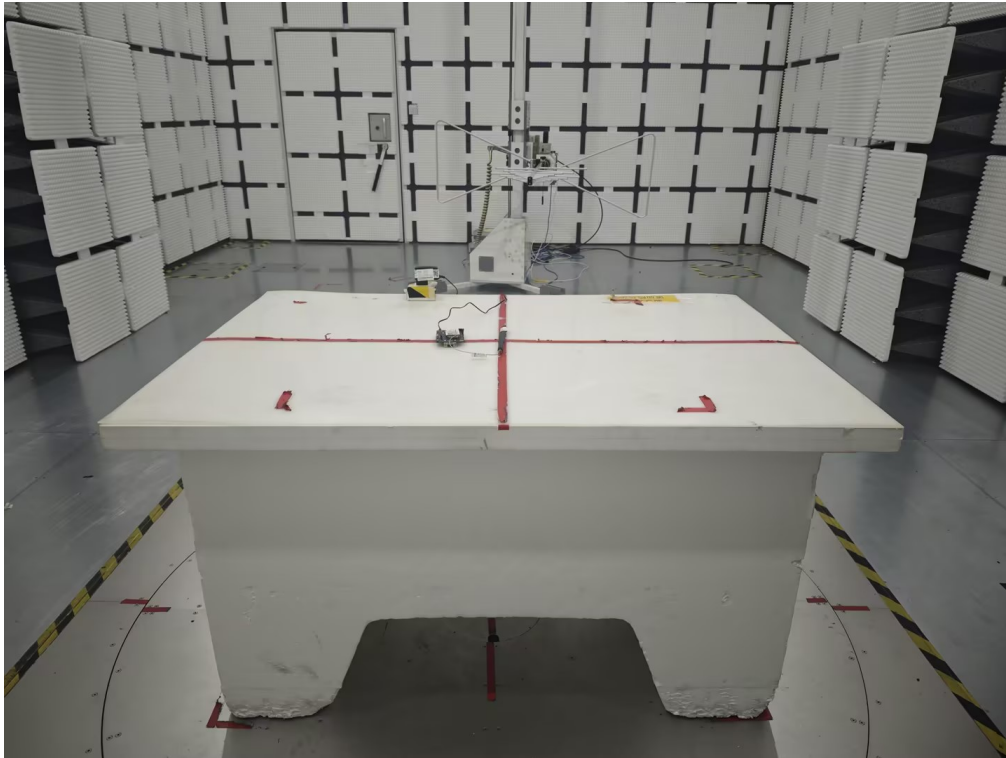
Radiated Emissions Test Photos

9 kHz to 30 MHz



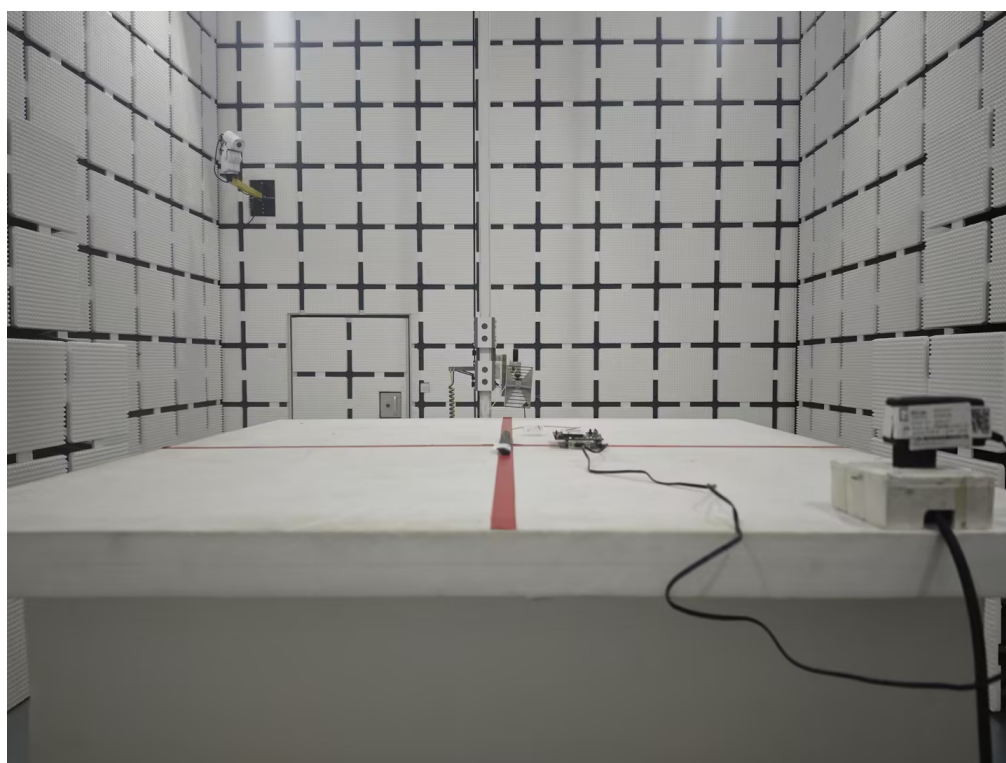
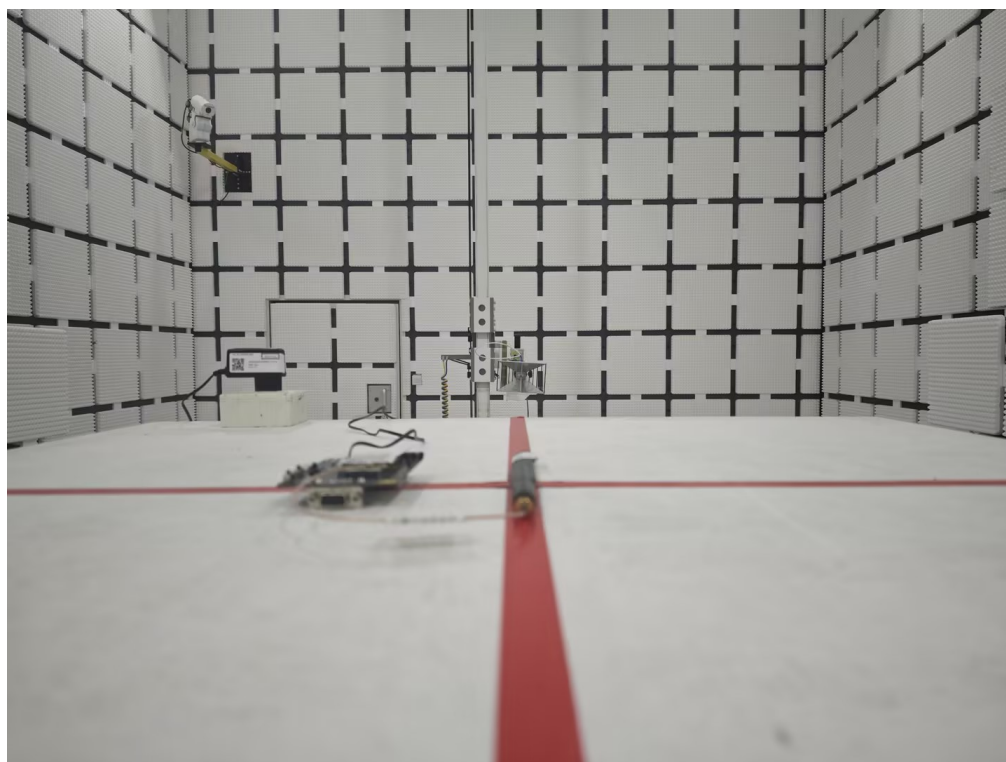
Radiated Emissions Test Photos

30 MHz to 1 GHz



Radiated Emissions Test Photos

Above 1 GHz



APPENDIX A - OUTPUT POWER

Output Power(dBm)

Modulation	Band	WCDMA Band IV		
	Tx Channel	1312CH	1413CH	1513CH
	Frequency	1712.4MHz	1732.6MHz	1752.6MHz
QPSK	RMC 12.2K	23.12	23.39	23.04
	RMC 64K	23.1	23.3	23.08
	RMC 144K	23.13	23.36	23
	RMC 384K	23.13	23.33	23.02
	HSDPA Subtest-1	22.82	22.82	22.12
	HSDPA Subtest-2	22.03	22.33	21.65
	HSDPA Subtest-3	21.52	21.86	21.12
	HSDPA Subtest-4	21.51	21.85	21.1
	HSUPA Subtest-1	21.43	22.07	21.49
	HSUPA Subtest-2	20.24	20.87	20.48
	HSUPA Subtest-3	20.47	21.13	20.65
	HSUPA Subtest-4	19.85	20.61	20.1
	HSUPA Subtest-5	22.78	23.29	22.67

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	23.34	24.33	23.34
		1	2	23.19	24.21	23.16
		1	5	23.32	24.31	23.31
		3	0	23.13	24.29	23.13
		3	1	23.13	24.31	23.12
		3	2	23.11	24.32	23.08
		6	0	22.25	23.54	22.44
	16QAM	1	0	22.39	23.53	22.73
		1	2	22.27	23.50	22.61
		1	5	22.38	23.55	22.73
		3	0	22.44	23.47	22.76
		3	1	22.43	23.50	22.75
		3	2	22.42	23.42	22.71
		6	0	21.56	22.76	21.81

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	23.06	24.18	23.02
		1	7	23.11	24.26	23.05
		1	14	23.06	24.15	23.02
		8	0	22.18	23.43	22.35
		8	4	22.20	23.49	22.36
		8	7	22.28	23.41	22.40
		15	0	22.17	23.46	22.42
	16QAM	1	0	22.39	23.82	22.62
		1	7	22.40	23.83	22.67
		1	14	22.42	23.79	22.65
		8	0	21.50	22.73	21.43
		8	4	21.52	22.79	21.38
		8	7	21.58	22.71	21.41
		15	0	21.38	22.71	21.33

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	23.12	24.10	23.07
		1	13	23.21	24.22	23.13
		1	24	23.22	24.01	23.13
		12	0	22.10	23.38	22.32
		12	6	22.27	23.46	22.38
		12	11	22.24	23.38	22.31
		25	0	22.22	23.41	22.31
	16QAM	1	0	22.03	23.42	22.30
		1	13	22.10	23.54	22.30
		1	24	22.04	23.44	22.29
		12	0	20.96	22.29	21.27
		12	6	21.12	22.38	21.29
		12	11	21.14	22.35	21.21
		25	0	21.03	22.24	21.13

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	22.83	23.94	23.31
		1	25	23.25	24.29	23.36
		1	49	23.45	23.92	23.01
		25	0	22.19	23.32	22.43
		25	13	22.43	23.48	22.44
		25	25	22.48	23.26	22.23
		50	0	22.31	23.33	22.31
	16QAM	1	0	21.62	23.35	22.83
		1	25	22.03	23.85	22.70
		1	49	22.09	23.53	22.41
		25	0	20.97	22.50	21.66
		25	13	21.68	22.74	21.57
		25	25	21.68	22.53	21.61
		50	0	21.53	22.56	21.48

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	23.06	23.93	23.74
		1	38	23.48	24.29	23.47
		1	74	23.73	23.87	23.05
		36	0	22.29	23.26	22.74
		36	18	22.62	23.46	22.61
		36	39	22.73	23.32	22.34
		75	0	22.56	23.33	22.50
	16QAM	1	0	22.16	23.39	23.49
		1	38	22.55	23.81	23.16
		1	74	22.69	23.55	22.92
		36	0	21.48	22.53	21.99
		36	18	21.80	22.73	21.71
		36	39	21.96	22.60	21.44
		75	0	21.79	22.57	21.61

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	23.05	23.66	24.02
		1	50	23.73	24.31	23.50
		1	99	24.06	23.69	23.09
		50	0	22.44	23.15	22.98
		50	25	22.79	23.50	22.83
		50	50	22.90	23.18	22.42
		100	0	22.68	23.31	22.65
	16QAM	1	0	22.66	23.14	23.53
		1	50	23.29	23.87	23.31
		1	99	23.55	23.35	22.71
		50	0	21.54	22.32	22.08
		50	25	21.95	22.63	21.93
		50	50	22.06	22.32	21.39
		100	0	21.85	22.43	21.78

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	23.77	23.49	23.12
		1	13	23.72	23.51	23.15
		1	24	23.69	23.40	23.19
		12	0	22.50	22.34	22.15
		12	6	22.54	22.37	22.19
		12	11	22.43	22.29	22.17
		25	0	22.43	22.36	22.16
	16QAM	1	0	22.06	21.93	22.21
		1	13	22.09	22.09	22.40
		1	24	22.14	22.05	22.52
		12	0	21.41	21.22	21.10
		12	6	21.48	21.28	21.21
		12	11	21.46	21.26	21.24
		25	0	21.32	21.17	21.10

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	23.25	23.07	22.93
		1	25	23.47	23.26	22.94
		1	49	23.54	23.14	22.95
		25	0	22.21	22.03	22.00
		25	13	22.37	22.22	22.00
		25	25	22.36	22.09	21.91
		50	0	22.24	22.10	21.92
	16QAM	1	0	21.80	22.09	21.79
		1	25	22.01	22.33	21.77
		1	49	22.28	22.32	21.91
		25	0	21.34	21.12	21.06
		25	13	21.53	21.25	21.13
		25	25	21.59	21.17	21.06
		50	0	21.42	21.15	21.02

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	23.09	23.07	23.50
		1	38	23.40	22.98	22.90
		1	74	23.78	23.09	22.99
		36	0	22.09	21.88	22.14
		36	18	22.34	22.02	22.00
		36	39	22.52	22.17	21.86
		75	0	22.30	22.12	21.99
	16QAM	1	0	21.83	22.24	22.70
		1	38	22.20	22.27	22.16
		1	74	22.50	22.48	22.28
		36	0	21.37	21.18	21.29
		36	18	21.66	21.23	21.07
		36	39	21.93	21.25	20.98
		75	0	21.65	21.20	21.10

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	22.90	22.98	23.24
		1	50	23.65	22.85	22.83
		1	99	23.47	23.04	22.66
		50	0	22.06	21.75	22.16
		50	25	22.52	21.90	21.93
		50	50	22.56	21.95	21.68
		100	0	22.35	21.91	21.87
	16QAM	1	0	22.28	22.33	22.87
		1	50	22.99	22.30	22.38
		1	99	22.77	22.58	22.30
		50	0	21.40	21.03	21.52
		50	25	21.87	21.15	21.41
		50	50	21.94	21.16	21.00
		100	0	21.71	21.15	21.34

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH38725	CH38750	CH38775
				2307.5MHz	2310MHz	2312.5MHz
40(2305-2315MHz) / 5MHz	QPSK	1	0	23.08	23.01	23.01
		1	13	23.21	23.09	23.15
		1	24	23.14	23.09	23.01
		12	0	22.31	22.22	22.26
		12	6	22.28	22.28	22.36
		12	11	22.24	22.29	22.34
		25	0	22.22	22.21	22.30
	16QAM	1	0	22.58	22.47	22.67
		1	13	22.71	22.62	22.82
		1	24	22.57	22.51	22.64
		12	0	21.46	21.29	21.44
		12	6	21.53	21.31	21.54
		12	11	21.49	21.31	21.52
		25	0	21.41	21.28	21.38

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				CH38750
				2310MHz
40(2305-2315MHz) / 10MHz	QPSK	1	0	23.13
		1	25	23.23
		1	49	23.09
		25	0	22.39
		25	13	22.46
		25	25	22.40
		50	0	22.30
	16QAM	1	0	22.50
		1	25	22.77
		1	49	22.51
		25	0	21.43
		25	13	21.51
		25	25	21.44
		50	0	21.34

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				CH39175
				2352.5MHz
40(2350-2355MHz) / 5MHz	QPSK	1	0	23.04
		1	13	23.09
		1	24	23.09
		12	0	22.15
		12	6	22.24
		12	11	22.23
		25	0	22.17
	16QAM	1	0	22.23
		1	13	22.39
		1	24	22.32
		12	0	21.14
		12	6	21.23
		12	11	21.23
		25	0	21.11

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	23.83	24.18	24.23
		1	2	23.69	24.10	24.04
		1	5	23.77	24.13	24.08
		3	0	23.66	24.16	24.03
		3	1	23.65	24.10	24.02
		3	2	23.64	24.07	23.97
		6	0	22.66	23.06	23.03
	16QAM	1	0	22.80	23.32	23.54
		1	2	22.68	23.20	23.37
		1	5	22.77	23.23	23.42
		3	0	22.84	23.11	23.30
		3	1	22.87	23.11	23.22
		3	2	22.83	23.08	23.18
		6	0	21.75	22.42	22.13

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	23.52	24.17	24.19
		1	7	23.52	24.11	24.09
		1	14	23.46	23.97	23.87
		8	0	22.58	23.05	23.20
		8	4	22.60	23.06	23.18
		8	7	22.62	22.97	23.03
		15	0	22.61	23.01	23.14
	16QAM	1	0	22.46	23.42	23.23
		1	7	22.51	23.41	23.14
		1	14	22.45	23.24	22.90
		8	0	21.66	22.36	22.40
		8	4	21.74	22.37	22.38
		8	7	21.71	22.20	22.28
		15	0	21.64	22.26	22.26

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	23.64	24.08	24.38
		1	13	23.76	24.05	24.30
		1	24	23.77	23.79	23.92
		12	0	22.56	23.05	23.31
		12	6	22.62	23.02	23.26
		12	11	22.59	22.91	23.18
		25	0	22.58	22.94	23.18
	16QAM	1	0	22.75	23.57	23.52
		1	13	22.79	23.56	23.41
		1	24	22.81	23.23	23.09
		12	0	21.64	22.40	22.50
		12	6	21.71	22.42	22.45
		12	11	21.69	22.22	22.39
		25	0	21.60	22.25	22.33

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	23.54	24.11	24.38
		1	25	23.75	24.13	24.50
		1	49	23.85	23.66	23.96
		25	0	22.55	23.08	23.48
		25	13	22.81	23.00	23.44
		25	25	22.85	22.77	23.23
		50	0	22.72	22.95	23.27
	16QAM	1	0	22.54	23.02	23.77
		1	25	22.82	23.01	23.79
		1	49	22.93	22.57	23.32
		25	0	21.61	22.24	22.42
		25	13	21.92	22.27	22.56
		25	25	21.88	21.98	22.38
		50	0	21.70	22.11	22.38

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	23.55	24.35	24.18
		1	38	23.87	24.14	24.51
		1	74	24.14	23.66	23.98
		36	0	22.72	23.16	23.45
		36	18	23.00	23.06	23.57
		36	39	23.15	22.80	23.40
		75	0	22.93	22.94	23.50
	16QAM	1	0	22.51	23.71	23.58
		1	38	22.83	23.50	23.89
		1	74	23.12	23.05	23.43
		36	0	21.67	22.37	22.44
		36	18	21.90	22.42	22.56
		36	39	22.06	22.07	22.45
		75	0	21.85	22.27	22.53

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	23.43	24.33	23.67
		1	50	24.03	24.04	24.36
		1	99	24.37	23.54	23.90
		50	0	22.67	23.03	23.03
		50	25	23.08	22.92	23.57
		50	50	23.19	22.51	23.34
		100	0	22.98	22.74	23.51
	16QAM	1	0	22.99	23.77	23.38
		1	50	23.59	23.47	24.03
		1	99	23.93	23.06	23.47
		50	0	21.68	22.21	22.02
		50	25	22.09	22.37	22.55
		50	50	22.20	21.90	22.37
		100	0	22.00	22.14	22.54

EIRP (dBm)				
Modulation	Band	WCDMA Band IV		
	Tx Channel	1312CH	1413CH	1513CH
	Frequency	1712.4MHz	1732.6MHz	1752.6MHz
QPSK	RMC 12.2K	21.62	21.89	21.54
	RMC 64K	21.60	21.80	21.58
	RMC 144K	21.63	21.86	21.50
	RMC 384K	21.63	21.83	21.52
	HSDPA Subtest-1	21.32	21.32	20.62
	HSDPA Subtest-2	20.53	20.83	20.15
	HSDPA Subtest-3	20.02	20.36	19.62
	HSDPA Subtest-4	20.01	20.35	19.60
	HSUPA Subtest-1	19.93	20.57	19.99
	HSUPA Subtest-2	18.74	19.37	18.98
	HSUPA Subtest-3	18.97	19.63	19.15
	HSUPA Subtest-4	18.35	19.11	18.60
	HSUPA Subtest-5	21.28	21.79	21.17

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	21.84	22.83	21.84
		1	2	21.69	22.71	21.66
		1	5	21.82	22.81	21.81
		3	0	21.63	22.79	21.63
		3	1	21.63	22.81	21.62
		3	2	21.61	22.82	21.58
		6	0	20.75	22.04	20.94
	16QAM	1	0	20.89	22.03	21.23
		1	2	20.77	22.00	21.11
		1	5	20.88	22.05	21.23
		3	0	20.94	21.97	21.26
		3	1	20.93	22.00	21.25
		3	2	20.92	21.92	21.21
		6	0	20.06	21.26	20.31

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	21.56	22.68	21.52
		1	7	21.61	22.76	21.55
		1	14	21.56	22.65	21.52
		8	0	20.68	21.93	20.85
		8	4	20.70	21.99	20.86
		8	7	20.78	21.91	20.90
		15	0	20.67	21.96	20.92
	16QAM	1	0	20.89	22.32	21.12
		1	7	20.90	22.33	21.17
		1	14	20.92	22.29	21.15
		8	0	20.00	21.23	19.93
		8	4	20.02	21.29	19.88
		8	7	20.08	21.21	19.91
		15	0	19.88	21.21	19.83

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	21.62	22.60	21.57
		1	13	21.71	22.72	21.63
		1	24	21.72	22.51	21.63
		12	0	20.60	21.88	20.82
		12	6	20.77	21.96	20.88
		12	11	20.74	21.88	20.81
		25	0	20.72	21.91	20.81
	16QAM	1	0	20.53	21.92	20.80
		1	13	20.60	22.04	20.80
		1	24	20.54	21.94	20.79
		12	0	19.46	20.79	19.77
		12	6	19.62	20.88	19.79
		12	11	19.64	20.85	19.71
		25	0	19.53	20.74	19.63

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	21.33	22.44	21.81
		1	25	21.75	22.79	21.86
		1	49	21.95	22.42	21.51
		25	0	20.69	21.82	20.93
		25	13	20.93	21.98	20.94
		25	25	20.98	21.76	20.73
		50	0	20.81	21.83	20.81
	16QAM	1	0	20.12	21.85	21.33
		1	25	20.53	22.35	21.20
		1	49	20.59	22.03	20.91
		25	0	19.47	21.00	20.16
		25	13	20.18	21.24	20.07
		25	25	20.18	21.03	20.11
		50	0	20.03	21.06	19.98

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	21.56	22.43	22.24
		1	38	21.98	22.79	21.97
		1	74	22.23	22.37	21.55
		36	0	20.79	21.76	21.24
		36	18	21.12	21.96	21.11
		36	39	21.23	21.82	20.84
		75	0	21.06	21.83	21.00
	16QAM	1	0	20.66	21.89	21.99
		1	38	21.05	22.31	21.66
		1	74	21.19	22.05	21.42
		36	0	19.98	21.03	20.49
		36	18	20.30	21.23	20.21
		36	39	20.46	21.10	19.94
		75	0	20.29	21.07	20.11

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	21.55	22.16	22.52
		1	50	22.23	22.81	22.00
		1	99	22.56	22.19	21.59
		50	0	20.94	21.65	21.48
		50	25	21.29	22.00	21.33
		50	50	21.40	21.68	20.92
		100	0	21.18	21.81	21.15
	16QAM	1	0	21.16	21.64	22.03
		1	50	21.79	22.37	21.81
		1	99	22.05	21.85	21.21
		50	0	20.04	20.82	20.58
		50	25	20.45	21.13	20.43
		50	50	20.56	20.82	19.89
		100	0	20.35	20.93	20.28

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	25.67	25.39	25.02
		1	13	25.62	25.41	25.05
		1	24	25.59	25.30	25.09
		12	0	24.40	24.24	24.05
		12	6	24.44	24.27	24.09
		12	11	24.33	24.19	24.07
		25	0	24.33	24.26	24.06
	16QAM	1	0	23.96	23.83	24.11
		1	13	23.99	23.99	24.30
		1	24	24.04	23.95	24.42
		12	0	23.31	23.12	23.00
		12	6	23.38	23.18	23.11
		12	11	23.36	23.16	23.14
		25	0	23.22	23.07	23.00

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	25.15	24.97	24.83
		1	25	25.37	25.16	24.84
		1	49	25.44	25.04	24.85
		25	0	24.11	23.93	23.90
		25	13	24.27	24.12	23.90
		25	25	24.26	23.99	23.81
		50	0	24.14	24.00	23.82
	16QAM	1	0	23.70	23.99	23.69
		1	25	23.91	24.23	23.67
		1	49	24.18	24.22	23.81
		25	0	23.24	23.02	22.96
		25	13	23.43	23.15	23.03
		25	25	23.49	23.07	22.96
		50	0	23.32	23.05	22.92

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	24.99	24.97	25.40
		1	38	25.30	24.88	24.80
		1	74	25.68	24.99	24.89
		36	0	23.99	23.78	24.04
		36	18	24.24	23.92	23.90
		36	39	24.42	24.07	23.76
		75	0	24.20	24.02	23.89
	16QAM	1	0	23.73	24.14	24.60
		1	38	24.10	24.17	24.06
		1	74	24.40	24.38	24.18
		36	0	23.27	23.08	23.19
		36	18	23.56	23.13	22.97
		36	39	23.83	23.15	22.88
		75	0	23.55	23.10	23.00

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	24.80	24.88	25.14
		1	50	25.55	24.75	24.73
		1	99	25.37	24.94	24.56
		50	0	23.96	23.65	24.06
		50	25	24.42	23.80	23.83
		50	50	24.46	23.85	23.58
		100	0	24.25	23.81	23.77
	16QAM	1	0	24.18	24.23	24.77
		1	50	24.89	24.20	24.28
		1	99	24.67	24.48	24.20
		50	0	23.30	22.93	23.42
		50	25	23.77	23.05	23.31
		50	50	23.84	23.06	22.90
		100	0	23.61	23.05	23.24

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH38725	CH38750	CH38775
				2307.5MHz	2310MHz	2312.5MHz
40(2305-2315MHz) / 5MHz	QPSK	1	0	23.28	23.21	23.21
		1	13	23.41	23.29	23.35
		1	24	23.34	23.29	23.21
		12	0	22.51	22.42	22.46
		12	6	22.48	22.48	22.56
		12	11	22.44	22.49	22.54
		25	0	22.42	22.41	22.50
	16QAM	1	0	22.78	22.67	22.87
		1	13	22.91	22.82	23.02
		1	24	22.77	22.71	22.84
		12	0	21.66	21.49	21.64
		12	6	21.73	21.51	21.74
		12	11	21.69	21.51	21.72
		25	0	21.61	21.48	21.58

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				CH38750
				2310MHz
40(2305-2315MHz) / 10MHz	QPSK	1	0	23.33
		1	25	23.43
		1	49	23.29
		25	0	22.59
		25	13	22.66
		25	25	22.60
		50	0	22.50
	16QAM	1	0	22.70
		1	25	22.97
		1	49	22.71
		25	0	21.63
		25	13	21.71
		25	25	21.64
		50	0	21.54

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				CH39175
				2352.5MHz
40(2350-2355MHz) / 5MHz	QPSK	1	0	23.44
		1	13	23.49
		1	24	23.49
		12	0	22.55
		12	6	22.64
		12	11	22.63
		25	0	22.57
	16QAM	1	0	22.63
		1	13	22.79
		1	24	22.72
		12	0	21.54
		12	6	21.63
		12	11	21.63
		25	0	21.51

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	22.43	22.78	22.83
		1	2	22.29	22.70	22.64
		1	5	22.37	22.73	22.68
		3	0	22.26	22.76	22.63
		3	1	22.25	22.70	22.62
		3	2	22.24	22.67	22.57
		6	0	21.26	21.66	21.63
	16QAM	1	0	21.40	21.92	22.14
		1	2	21.28	21.80	21.97
		1	5	21.37	21.83	22.02
		3	0	21.44	21.71	21.90
		3	1	21.47	21.71	21.82
		3	2	21.43	21.68	21.78
		6	0	20.35	21.02	20.73

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	22.12	22.77	22.79
		1	7	22.12	22.71	22.69
		1	14	22.06	22.57	22.47
		8	0	21.18	21.65	21.80
		8	4	21.20	21.66	21.78
		8	7	21.22	21.57	21.63
		15	0	21.21	21.61	21.74
	16QAM	1	0	21.06	22.02	21.83
		1	7	21.11	22.01	21.74
		1	14	21.05	21.84	21.50
		8	0	20.26	20.96	21.00
		8	4	20.34	20.97	20.98
		8	7	20.31	20.80	20.88
		15	0	20.24	20.86	20.86

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	22.24	22.68	22.98
		1	13	22.36	22.65	22.90
		1	24	22.37	22.39	22.52
		12	0	21.16	21.65	21.91
		12	6	21.22	21.62	21.86
		12	11	21.19	21.51	21.78
		25	0	21.18	21.54	21.78
	16QAM	1	0	21.35	22.17	22.12
		1	13	21.39	22.16	22.01
		1	24	21.41	21.83	21.69
		12	0	20.24	21.00	21.10
		12	6	20.31	21.02	21.05
		12	11	20.29	20.82	20.99
		25	0	20.20	20.85	20.93

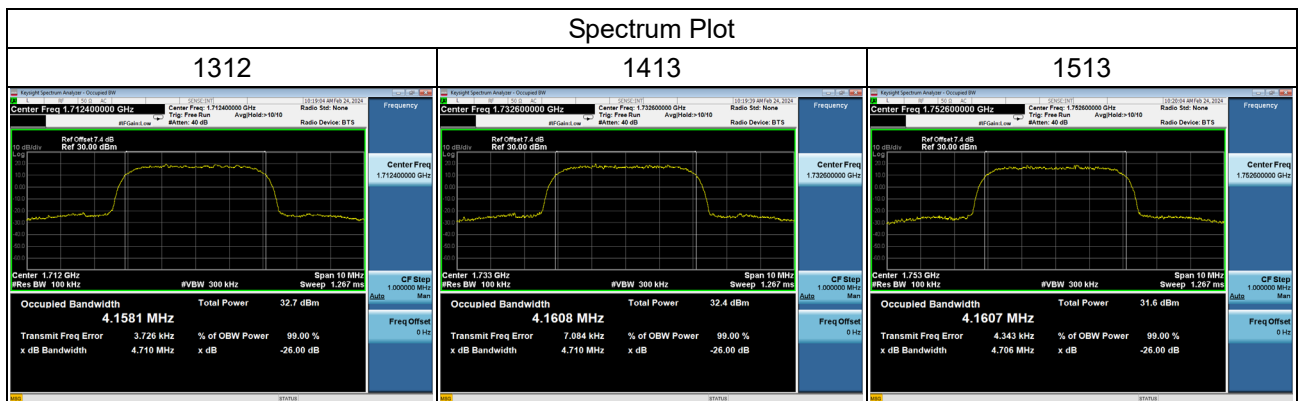
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132022CH	132322CH	132622CH
				1715MHz	1745MHz	1775MHz
66 / 10MHz	QPSK	1	0	22.14	22.71	22.98
		1	25	22.35	22.73	23.10
		1	49	22.45	22.26	22.56
		25	0	21.15	21.68	22.08
		25	13	21.41	21.60	22.04
		25	25	21.45	21.37	21.83
		50	0	21.32	21.55	21.87
	16QAM	1	0	21.14	21.62	22.37
		1	25	21.42	21.61	22.39
		1	49	21.53	21.17	21.92
		25	0	20.21	20.84	21.02
		25	13	20.52	20.87	21.16
		25	25	20.48	20.58	20.98
		50	0	20.30	20.71	20.98

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	22.15	22.95	22.78
		1	38	22.47	22.74	23.11
		1	74	22.74	22.26	22.58
		36	0	21.32	21.76	22.05
		36	18	21.60	21.66	22.17
		36	39	21.75	21.40	22.00
		75	0	21.53	21.54	22.10
	16QAM	1	0	21.11	22.31	22.18
		1	38	21.43	22.10	22.49
		1	74	21.72	21.65	22.03
		36	0	20.27	20.97	21.04
		36	18	20.50	21.02	21.16
		36	39	20.66	20.67	21.05
		75	0	20.45	20.87	21.13

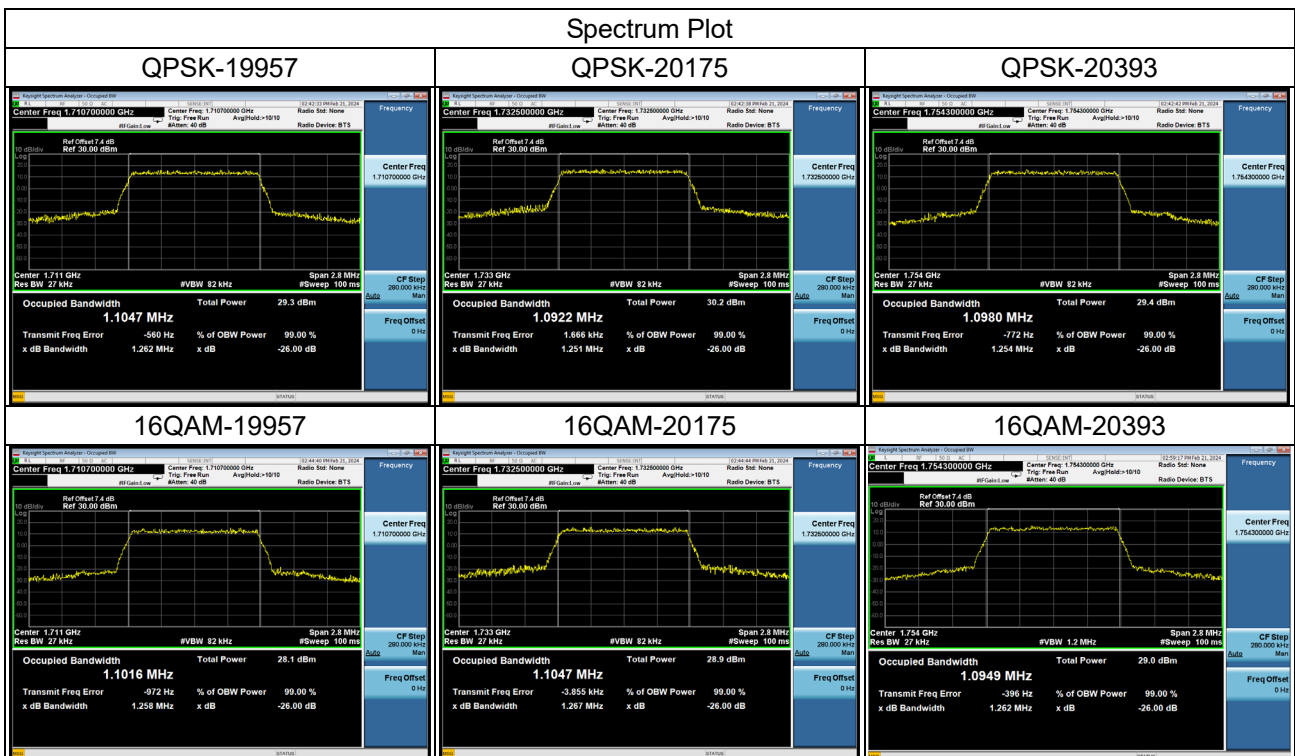
LTE Band / BW	Modulation	RB Siset	RB Offset	Low CH	Mid CH	High CH
				132072CH	132322CH	132572CH
				1720MHz	1745MHz	1770MHz
66 / 20MHz	QPSK	1	0	22.03	22.93	22.27
		1	50	22.63	22.64	22.96
		1	99	22.97	22.14	22.50
		50	0	21.27	21.63	21.63
		50	25	21.68	21.52	22.17
		50	50	21.79	21.11	21.94
		100	0	21.58	21.34	22.11
	16QAM	1	0	21.59	22.37	21.98
		1	50	22.19	22.07	22.63
		1	99	22.53	21.66	22.07
		50	0	20.28	20.81	20.62
		50	25	20.69	20.97	21.15
		50	50	20.80	20.50	20.97
		100	0	20.60	20.74	21.14

APPENDIX B - OCCUPIED BANDWIDTH

WCDMA Band IV_WCDMA			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	QPSK
1312	1712.4	4.1581	4.710
1413	1732.6	4.1608	4.710
1513	1752.6	4.1607	4.706



LTE Band 4_1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
19957	1710.7	1.1047	1.1016	1.262	1.258
20175	1732.5	1.0922	1.1047	1.251	1.267
20393	1754.3	1.0980	1.0949	1.254	1.262



LTE Band 4_3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
19965	1711.5	2.6962	2.6927	2.909	2.917
20175	1732.5	2.6999	2.7001	2.916	2.911
20385	1753.5	2.6980	2.7053	2.909	2.926

