

MEASUREMENT REPORT

FCC PART 2 & 22 & 27

FCC ID: ZMOFM101GL12

Application: Fibocom Wireless Inc.

Application Type: Certification

Product: LTE Module

Model No.: FM101-GL

Brand Name: Fibocom

FCC Rule Part(s): Part 2, 22, 27

Test Procedure(s): ANSI C63.26: 2015

Test Date: February 18 ~ March 07, 2022

Reviewed By: _____

Approved By: _____



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2202RSU033-U1	Rev. 01	Initial Report	03-22-2022	Valid

Note: This application for certification is leveraging the data reuse procedures from KDB 484596 based on reference FCC ID: ZMOFM101GL to cover variant FCC ID: ZMOFM101GL12.

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1. GENERAL INFORMATION

1.1. Applicant

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,
Shenzhen, China

1.2. Manufacturer

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,
Shenzhen, China

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Accreditations
	A2LA: 3628.01 FCC: CN1166 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104 CNAS: L10551 ISED: CN0001
☐	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 FCC: CN1284 CNAS: L10551 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: L3261-190725 FCC: 291082, TW3261 ISED: TW3261

2. PRODUCT INFORMATION

2.1. Product Information

Product Name	LTE Module
Model No.	FM101-GL
Brand Name	Fibocom
IMEI	Conducted Measurement: 861023050031798 Radiated Measurement: 861023050029685
Operating Temperature	-10 ~ 55 °C
Power Type	3.135 ~ 4.4Vdc, typical 3.3Vdc
Antenna Information	Refer to Section 2.3
UMTS Specification	
Single Band	Band 2, 4, 5
Modulation	Uplink up to 16QAM, Downlink up to 64QAM
E-UTRA Specification	
Single Band	Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 38, 41, 48, 66, 71
HPUE Band	Band 41
Intra-Band	CA_5B, CA_7C, CA_38C, CA_41C
Modulation	Uplink up to 16QAM, Downlink up to 64QAM

Note: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.

2.2. Radio Specification under Test

FDD T _x Frequency Range:	Band 5: 824 ~ 849 MHz; Band 7: 2500 ~ 2570 MHz
FDD R _x Frequency Range:	Band 5: 869 ~ 894 MHz; Band 7: 2620 ~ 2690 MHz
TDD T _x & R _x Frequency Range:	Band 38: 2570 ~ 2620 MHz; Band 41: 2496 ~ 2690 MHz

2.3. Description of Available Antennas

Technology	Frequency Range (MHz)	Antenna Type	Max Peak Gain (dBi)
LTE Band 2	1850 ~ 1910	PIFA	4.00
LTE Band 4	1710 ~ 1755		3.00
LTE Band 5	824 ~ 849		3.00
LTE Band 7	2500 ~ 2570		4.00
LTE Band 12	699 ~ 716		3.00
LTE Band 13	777 ~ 787		3.00
LTE Band 14	788 ~ 798		3.00
LTE Band 17	704 ~ 716		3.00
LTE Band 25	1850 ~ 1915		4.00
LTE Band 26	814 ~ 849		3.00
LTE Band 30	2305 ~ 2315		1.00
LTE Band 38	2570 ~ 2620		4.00
LTE Band 41	2500 ~ 2690		4.00
LTE Band 48	3550 ~ 3700		1.00
LTE Band 66	1710 ~ 1780		3.00
LTE Band 71	663 ~ 698		3.00

2.4. Test Methodology

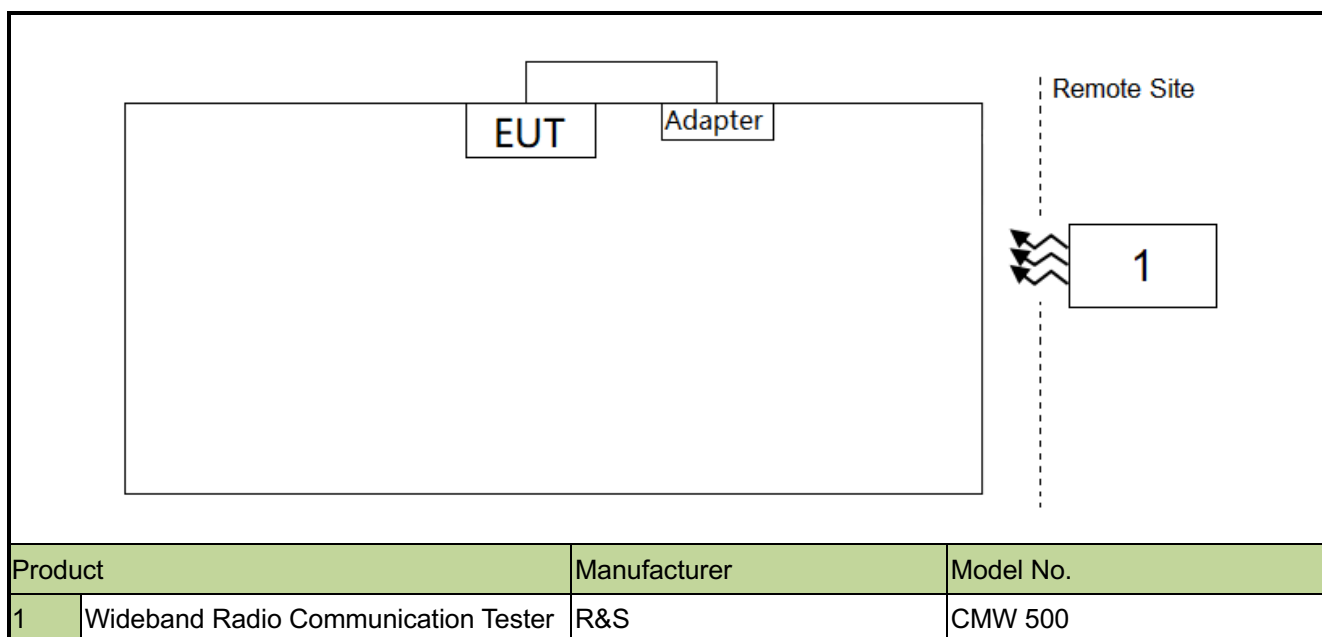
According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ANSI C63.26:2015
- FCC CFR 47 Part 2, Part 22, Part 27
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP

2.5. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.6. Configuration of Tested System



2.7. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20% ~ 75%RH

3. TEST EQUIPMENT CALIBRATION DATE

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
Communication Tester	R&S	CMU 200	MRTSUE06009	1 year	2022/9/7	SIP-SR1
Communication Tester	R&S	CMW500	MRTSUE06243	1 year	2022/10/10	SIP-SR1
Signal Generator	Keysight	E8257D	MRTSUE06453	1 year	2022/6/24	SIP-SR1
Thermohygrometer	testo	622	MRTSUE06629	1 year	2022/11/2	SIP-SR1
Signal Generator	Keysight	E8257D	MRTSUE06904	1 year	2022/11/23	SIP-SR1
DC POWER MODULE	Keysight	N6743B	MRTSUE06905	/	/	SIP-SR1
DC POWER MODULE	Keysight	N6743B	MRTSUE06906	/	/	SIP-SR1
Low-Profile Modular Power System Mainframe	Keysight	N6700C	MRTSUE06907	/	/	SIP-SR1
Signal Analyzer	Keysight	N9021B	MRTSUE06915	1 year	2022/12/15	SIP-SR1
Temperature Chamber	BAOYT	BYG-80CL	MRTSUE06932	1 year	2022/3/16	SIP-SR1
Shielding Room	MIX-BEP	SIP-SR1	MRTSUE06948	/	/	SIP-SR1
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2022/12/29	SIP-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2022/6/24	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06599	1 year	2022/10/20	SIP-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2022/10/11	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06623	1 year	2022/11/28	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06624	1 year	2022/11/28	SIP-AC2
Preamplifier	EMCI	EMC051845SE	MRTSUE06644	1 year	2022/11/8	SIP-AC2
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06647	1 year	2022/8/5	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06648	1 year	2022/11/9	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2022/12/23	SIP-AC2

Software	Version	Function
EMI Software	V3	EMI Test Software

4. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Radiated Spurious Emissions
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): Horizontal: 9kHz ~ 300MHz: 5.04dB 300MHz ~ 1GHz: 4.95dB 1GHz ~ 40GHz: 6.40dB Vertical: 9kHz ~ 300MHz: 5.24dB 300MHz ~ 1GHz: 6.03dB 1GHz ~ 40GHz: 6.40dB
Conducted Spurious Emissions
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.78dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.13dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.28%

5. TEST RESULT

5.1. Summary

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049	Occupied Bandwidth	N/A	Conducted	Pass	Section 5.2
22.913(a)(5)	Equivalent Radiated Power (Band 5)	< 7 Watts Max ERP		Pass	Section 5.3
27.50(h)(2)	Equivalent Isotropic Radiated Power (7, 38, 41)	< 2 Watts Max EIRP			
2.1051, 22.917(a), 27.53(m)	Band Edge	Refer to section 5.4		Pass	Section 5.4
2.1051, 22.917(a) 27.53(m)	Spurious Emission	Refer to section 5.5		Pass	Section 5.5
2.1051, 22.917(a) 27.53(m)	Spurious Emission	Refer to section 5.6	Radiated	Pass	Section 5.6

Notes:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- Based on the original report, this change is only enable the UL CA configurations (5B/7C/38C/41C) via software.

5.2. Occupied Bandwidth Measurement

5.2.1. Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

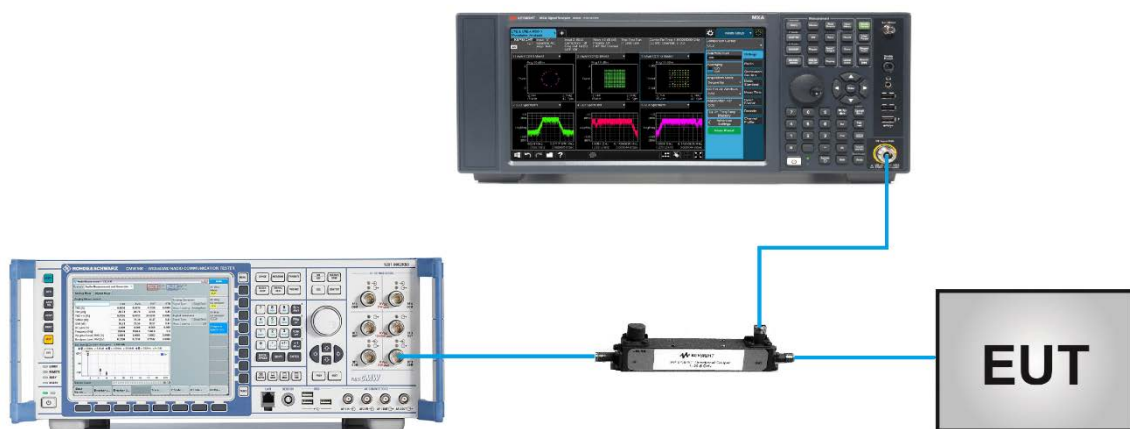
5.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.4

5.2.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency
2. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

5.2.4. Test Setup



5.2.5. Test Result

Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/19
Test Band	Intra-Band CA_5B		

Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	831.8 + 839.0	5+10	13.78
	834.0 + 841.2	10+5	13.84
	831.6 + 841.5	10+10	18.75
16QAM	831.8 + 839.0	5+10	13.79
	834.0 + 841.2	10+5	13.85
	831.6 + 841.5	10+10	18.71

99% Bandwidth - QPSK

5+10MHz Channel Bandwidth



10+5MHz Channel Bandwidth



10+10MHz Channel Bandwidth



99% Bandwidth - 16QAM

5+10MHz Channel Bandwidth



10+5MHz Channel Bandwidth



10+10MHz Channel Bandwidth



Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/19
Test Band	Intra-Band CA_7C		

Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	2525.6 + 2540.0	10+20	27.58
	2530.1 + 2542.1	15+10	23.08
	2527.5 + 2542.5	15+15	28.22
	2525.3 + 2542.4	15+20	32.46
	2530.1 + 2544.5	20+10	27.67
	2527.6 + 2544.7	20+15	32.45
	2525.1 + 2544.9	20+20	37.40
16QAM	2525.6 + 2540.0	10+20	27.52
	2530.1 + 2542.1	15+10	23.06
	2527.5 + 2542.5	15+15	28.28
	2525.3 + 2542.4	15+20	32.57
	2530.1 + 2544.5	20+10	27.64
	2527.6 + 2544.7	20+15	32.51
	2525.1 + 2544.9	20+20	37.39

99% Bandwidth - QPSK

10+20MHz Channel Bandwidth



15+10MHz Channel Bandwidth



15+15MHz Channel Bandwidth



15+20MHz Channel Bandwidth



20+10MHz Channel Bandwidth



20+15MHz Channel Bandwidth



20+20MHz Channel Bandwidth



99% Bandwidth - 16QAM

10+20MHz Channel Bandwidth



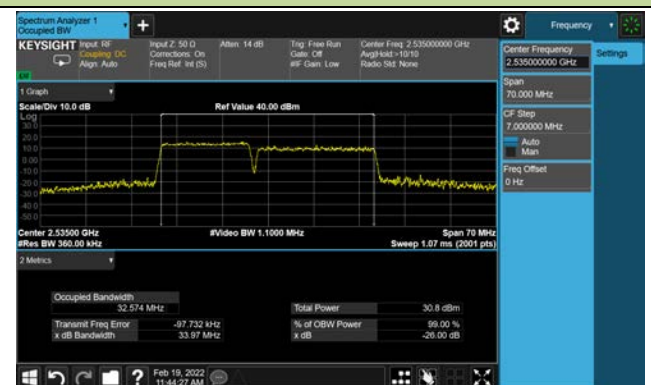
15+10MHz Channel Bandwidth



15+15MHz Channel Bandwidth



15+20MHz Channel Bandwidth



20+10MHz Channel Bandwidth



20+15MHz Channel Bandwidth



20+20MHz Channel Bandwidth



Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/19
Test Band	Intra-Band CA_38C		

Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	2585.5 + 2600.5	15+15	28.08
	2583.1 + 2602.9	20+20	37.19
16QAM	2585.5 + 2600.5	15+15	28.08
	2583.1 + 2602.9	20+20	37.26

99% Bandwidth - QPSK

15+15MHz Channel Bandwidth



20+20MHz Channel Bandwidth



99% Bandwidth - 16QAM

15+15MHz Channel Bandwidth



20+20MHz Channel Bandwidth



Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/19
Test Band	Intra-Band CA_41C		

Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	2583.8 + 2595.5	5+20	22.57
	2585.9 + 2597.9	10+15	22.87
	2583.6 + 2598.0	10+20	27.44
	2588.1 + 2600.1	15+10	22.95
	2585.5 + 2600.5	15+15	28.00
	2583.3 + 2600.4	15+20	32.33
	2590.5 + 2602.2	20+5	22.70
	2588.1 + 2602.5	20+10	27.53
	2585.6 + 2602.7	20+15	32.44
	2583.1 + 2602.9	20+20	37.22
16QAM	2583.8 + 2595.5	5+20	22.53
	2585.9 + 2597.9	10+15	22.86
	2583.6 + 2598.0	10+20	27.38
	2588.1 + 2600.1	15+10	23.00
	2585.5 + 2600.5	15+15	28.15
	2583.3 + 2600.4	15+20	32.24
	2590.5 + 2602.2	20+5	22.76
	2588.1 + 2602.5	20+10	27.61
	2585.6 + 2602.7	20+15	32.42
	2583.1 + 2602.9	20+20	37.20

99% Bandwidth - QPSK

5+20MHz Channel Bandwidth



10+15MHz Channel Bandwidth



10+20MHz Channel Bandwidth



15+10MHz Channel Bandwidth



15+15MHz Channel Bandwidth



15+20MHz Channel Bandwidth

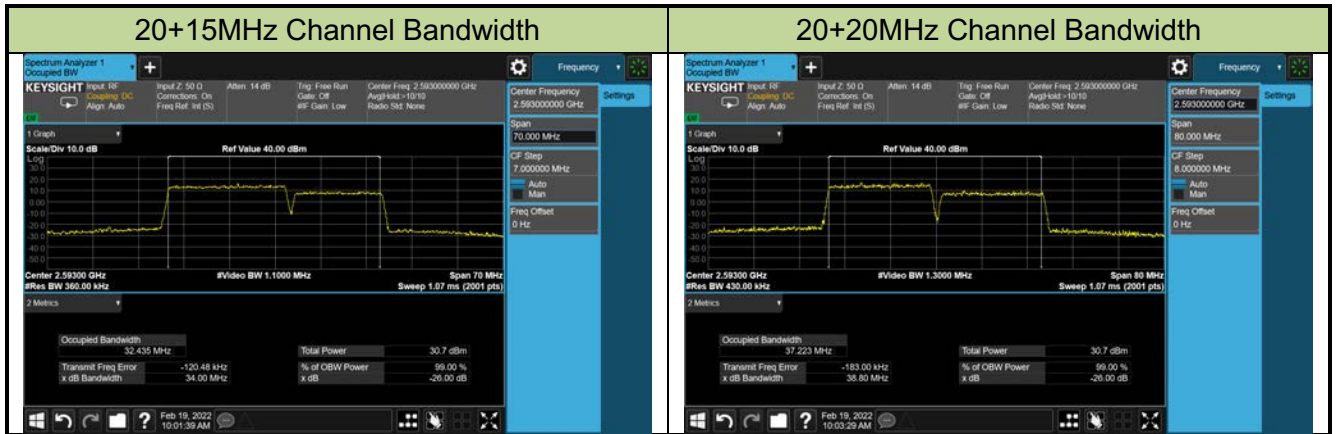


20+5MHz Channel Bandwidth



20+10MHz Channel Bandwidth





99% Bandwidth - 16QAM

5+20MHz Channel Bandwidth



10+15MHz Channel Bandwidth



10+20MHz Channel Bandwidth



15+10MHz Channel Bandwidth



15+15MHz Channel Bandwidth



15+20MHz Channel Bandwidth

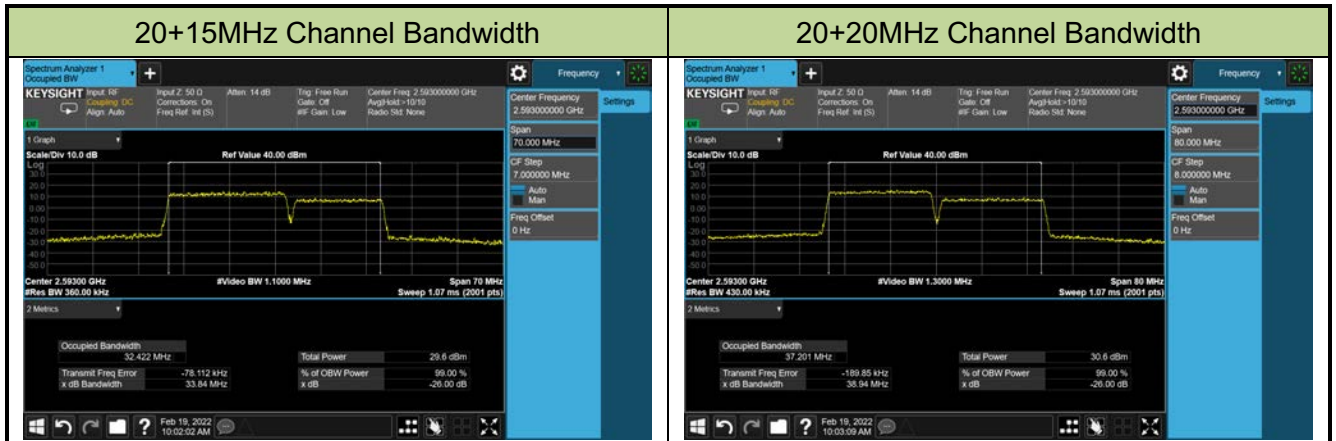


20+5MHz Channel Bandwidth



20+10MHz Channel Bandwidth





5.3. Equivalent Isotropically Radiated Power Measurement

5.3.1. Test Limit

Band 5:

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

Band 7, 38/41:

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

5.3.2. Test Procedure

ANSI C63.26-2015 - Section 5.2

5.3.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

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

5.3.4. Test Setup



5.3.5.Test Result

Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/18 ~ 2022/02/20
Test Band	Intra-Band CA_5B		

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	ERP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
826.8	834.0	5+10	P_1@0	S_0@0	22.72	23.57	< 38.45
831.8	839.0				22.91	23.76	< 38.45
836.8	844.0				22.94	23.79	< 38.45
826.8	834.0		P_1@13	S_0@0	22.85	23.70	< 38.45
831.8	839.0				23.00	23.85	< 38.45
836.8	844.0				22.95	23.80	< 38.45
826.8	834.0		P_1@24	S_0@0	22.81	23.66	< 38.45
831.8	839.0				22.94	23.79	< 38.45
836.8	844.0				22.90	23.75	< 38.45
826.8	834.0		P_25@0	S_50@0	21.69	22.54	< 38.45
831.8	839.0				21.82	22.67	< 38.45
836.8	844.0				21.76	22.61	< 38.45
829.0	836.2	10+5	P_1@0	S_0@0	22.71	23.56	< 38.45
834.0	841.2				22.86	23.71	< 38.45
839.0	846.2				22.94	23.79	< 38.45
829.0	836.2		P_1@25	S_0@0	22.80	23.65	< 38.45
834.0	841.2				23.01	23.86	< 38.45
839.0	846.2				22.90	23.75	< 38.45
829.0	836.2		P_1@49	S_0@0	22.95	23.80	< 38.45
834.0	841.2				22.95	23.80	< 38.45
839.0	846.2				23.02	23.87	< 38.45
829.0	836.2		P_50@0	S_25@0	21.78	22.63	< 38.45
834.0	841.2				21.79	22.64	< 38.45
839.0	846.2				21.59	22.44	< 38.45
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	ERP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
829.0	838.9	10+10	P_1@0	S_0@0	22.76	23.61	< 38.45
831.6	841.5				22.88	23.73	< 38.45
834.1	844.0				23.04	23.89	< 38.45
829.0	838.9		P_1@25	S_0@0	22.78	23.63	< 38.45
831.6	841.5				22.91	23.76	< 38.45
834.1	844.0				22.92	23.77	< 38.45
829.0	838.9		P_1@49	S_0@0	22.91	23.76	< 38.45
831.6	841.5				22.97	23.82	< 38.45
834.1	844.0				23.00	23.85	< 38.45
829.0	838.9		P_50@0	S_50@0	21.72	22.57	< 38.45
831.6	841.5				21.82	22.67	< 38.45
834.1	844.0				21.80	22.65	< 38.45
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	ERP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
826.8	834.0	5+10	P_1@0	S_0@0	21.89	22.74	< 38.45
831.8	839.0				22.21	23.06	< 38.45
836.8	844.0				22.25	23.10	< 38.45
826.8	834.0		P_1@13	S_0@0	22.03	22.88	< 38.45
831.8	839.0				22.23	23.08	< 38.45
836.8	844.0				22.25	23.10	< 38.45
826.8	834.0		P_1@24	S_0@0	21.90	22.75	< 38.45
831.8	839.0				22.26	23.11	< 38.45
836.8	844.0				22.19	23.04	< 38.45
826.8	834.0		P_25@0	S_50@0	20.67	21.52	< 38.45
831.8	839.0				20.83	21.68	< 38.45
836.8	844.0				20.72	21.57	< 38.45
829.0	836.2	10+5	P_1@0	S_1@24	21.93	22.78	< 38.45
834.0	841.2				21.97	22.82	< 38.45
839.0	846.2				21.99	22.84	< 38.45
829.0	836.2		P_1@25	S_0@0	21.94	22.79	< 38.45
834.0	841.2				22.05	22.90	< 38.45
839.0	846.2				21.93	22.78	< 38.45
829.0	836.2		P_1@49	S_1@0	22.06	22.91	< 38.45
834.0	841.2				22.02	22.87	< 38.45
839.0	846.2				22.05	22.90	< 38.45
829.0	836.2		P_50@0	S_25@0	20.76	21.61	< 38.45
834.0	841.2				20.75	21.60	< 38.45
839.0	846.2				20.74	21.59	< 38.45
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	ERP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
829.0	838.9	10+10	P_1@0	S_0@0	21.95	22.80	< 38.45
831.6	841.5				21.98	22.83	< 38.45
834.1	844.0				21.99	22.84	< 38.45
829.0	838.9		P_1@25	S_0@0	21.93	22.78	< 38.45
831.6	841.5				21.98	22.83	< 38.45
834.1	844.0				21.97	22.82	< 38.45
829.0	838.9		P_1@49	S_0@0	22.11	22.96	< 38.45
831.6	841.5				22.00	22.85	< 38.45
834.1	844.0				21.96	22.81	< 38.45
829.0	838.9		P_50@0	S_50@0	20.75	21.60	< 38.45
831.6	841.5				20.80	21.65	< 38.45
834.1	844.0				20.78	21.63	< 38.45
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/18 ~ 2022/02/20
Test Band	Intra-Band CA_7C		

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2510.0	2529.8	20+20	P_1@0	S_0@0	21.10	25.10	< 33.01
2525.1	2544.9				21.30	25.30	< 33.01
2540.2	2560.0				20.91	24.91	< 33.01
2510.0	2529.8		P_1@49	S_0@0	21.17	25.17	< 33.01
2525.1	2544.9				21.06	25.06	< 33.01
2540.2	2560.0				21.25	25.25	< 33.01
2510.0	2529.8		P_1@99	S_0@0	20.89	24.89	< 33.01
2525.1	2544.9				21.29	25.29	< 33.01
2540.2	2560.0				21.86	25.86	< 33.01
2510.0	2529.8		P_100@0	S_100@0	19.06	23.06	< 33.01
2525.1	2544.9				19.86	23.86	< 33.01
2540.2	2560.0				19.62	23.62	< 33.01
2510.0	2527.1	20+15	P_1@0	S_0@0	20.38	24.38	< 33.01
2527.6	2544.7				21.07	25.07	< 33.01
2545.1	2562.2				21.24	25.24	< 33.01
2510.0	2527.1		P_1@49	S_0@0	21.34	25.34	< 33.01
2527.6	2544.7				21.40	25.40	< 33.01
2545.1	2562.2				21.80	25.80	< 33.01
2510.0	2527.1		P_1@99	S_0@0	20.84	24.84	< 33.01
2527.6	2544.7				21.27	25.27	< 33.01
2545.1	2562.2				21.45	25.45	< 33.01
2510.0	2527.1		P_100@0	S_75@0	19.84	23.84	< 33.01
2527.6	2544.7				19.38	23.38	< 33.01
2545.1	2562.2				19.80	23.80	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2507.8	2524.9	15+20	P_1@0	S_0@0	20.48	24.48	< 33.01
2525.3	2542.4				20.97	24.97	< 33.01
2542.9	2560.0				21.39	25.39	< 33.01
2507.8	2524.9		P_1@18	S_0@0	21.10	25.10	< 33.01
2525.3	2542.4				20.96	24.96	< 33.01
2542.9	2560.0				21.50	25.50	< 33.01
2507.8	2524.9		P_1@74	S_0@0	21.20	25.20	< 33.01
2525.3	2542.4				21.48	25.48	< 33.01
2542.9	2560.0				21.00	25.00	< 33.01
2507.8	2524.9		P_75@0	S_100@0	18.95	22.95	< 33.01
2525.3	2542.4				19.24	23.24	< 33.01
2542.9	2560.0				19.76	23.76	< 33.01
2507.5	2564.7	15+15	P_1@0	S_0@0	21.02	25.02	< 33.01
2527.5	2522.5				20.93	24.93	< 33.01
2547.5	2542.5				21.17	25.17	< 33.01
2507.5	2562.5		P_1@18	S_0@0	20.85	24.85	< 33.01
2527.5	2522.5				21.07	25.07	< 33.01
2547.5	2542.5				21.11	25.11	< 33.01
2507.5	2562.5		P_1@74	S_0@0	21.05	25.05	< 33.01
2527.5	2522.5				20.89	24.89	< 33.01
2547.5	2542.5				21.09	25.09	< 33.01
2507.5	2562.5		P_75@0	S_75@0	19.81	23.81	< 33.01
2527.5	2522.5				19.46	23.46	< 33.01
2547.5	2542.5				20.19	24.19	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2505.5	2519.9	10+20	P_1@0	S_0@0	20.98	24.98	< 33.01
2525.6	2540.0				21.30	25.30	< 33.01
2545.6	2560.0				20.87	24.87	< 33.01
2505.5	2519.9		P_1@25	S_0@0	20.92	24.92	< 33.01
2525.6	2540.0				21.02	25.02	< 33.01
2545.6	2560.0				21.62	25.62	< 33.01
2505.5	2519.9		P_1@49	S_0@0	20.93	24.93	< 33.01
2525.6	2540.0				21.24	25.24	< 33.01
2545.6	2560.0				21.34	25.34	< 33.01
2505.5	2519.9		P_50@0	S_100@0	19.39	23.39	< 33.01
2525.6	2540.0				20.57	24.57	< 33.01
2545.6	2560.0				21.39	25.39	< 33.01
2510.0	2524.4	20+10	P_1@0	S_0@0	20.98	24.98	< 33.01
2530.1	2544.5				21.05	25.05	< 33.01
2550.1	2564.5				20.93	24.93	< 33.01
2510.0	2524.4		P_1@49	S_0@0	20.89	24.89	< 33.01
2530.1	2544.5				21.01	25.01	< 33.01
2550.1	2564.5				21.05	25.05	< 33.01
2510.0	2524.4		P_1@99	S_0@0	21.01	25.01	< 33.01
2530.1	2544.5				20.94	24.94	< 33.01
2550.1	2564.5				21.29	25.29	< 33.01
2510.0	2524.4		P_100@0	S_50@0	19.83	23.83	< 33.01
2530.1	2544.5				20.43	24.43	< 33.01
2550.1	2564.5				20.94	24.94	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2507.5	2519.5	15+10	P_1@0	S_0@0	20.47	24.47	< 33.01
2530.1	2542.1				20.75	24.75	< 33.01
2552.7	2564.7				20.84	24.84	< 33.01
2507.5	2519.5		P_1@38	S_0@0	20.88	24.88	< 33.01
2530.1	2542.1				20.85	24.85	< 33.01
2552.7	2564.7				20.98	24.98	< 33.01
2507.5	2519.5		P_1@74	S_0@0	21.02	25.02	< 33.01
2530.1	2542.1				20.78	24.78	< 33.01
2552.7	2564.7				20.95	24.95	< 33.01
2507.5	2519.5		P_75@0	S_50@0	18.90	22.90	< 33.01
2530.1	2542.1				19.75	23.75	< 33.01
2552.7	2564.7				19.64	23.64	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2510.0	2529.8	20+20	P_1@0	S_0@0	20.51	24.51	< 33.01
2525.1	2544.9				20.77	24.77	< 33.01
2540.2	2560.0				20.36	24.36	< 33.01
2510.0	2529.8		P_1@49	S_0@0	20.23	24.23	< 33.01
2525.1	2544.9				20.20	24.2	< 33.01
2540.2	2560.0				20.26	24.26	< 33.01
2510.0	2529.8		P_1@99	S_0@0	20.27	24.27	< 33.01
2525.1	2544.9				19.92	23.92	< 33.01
2540.2	2560.0				20.46	24.46	< 33.01
2510.0	2529.8		P_100@0	S_100@0	18.04	22.04	< 33.01
2525.1	2544.9				18.90	22.9	< 33.01
2540.2	2560.0				18.75	22.75	< 33.01
2510.0	2527.1	20+15	P_1@0	S_0@0	19.75	23.75	< 33.01
2527.6	2544.7				20.54	24.54	< 33.01
2545.1	2562.2				20.68	24.68	< 33.01
2510.0	2527.1		P_1@49	S_0@0	20.29	24.29	< 33.01
2527.6	2544.7				20.31	24.31	< 33.01
2545.1	2562.2				20.64	24.64	< 33.01
2510.0	2527.1		P_1@99	S_0@0	20.25	24.25	< 33.01
2527.6	2544.7				20.52	24.52	< 33.01
2545.1	2562.2				20.56	24.56	< 33.01
2510.0	2527.1		P_100@0	S_75@0	17.84	21.84	< 33.01
2527.6	2544.7				18.40	22.4	< 33.01
2545.1	2562.2				18.89	22.89	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2507.8	2524.9	15+20	P_1@0	S_0@0	19.92	23.92	< 33.01
2525.3	2542.4				20.13	24.13	< 33.01
2542.9	2560.0				20.59	24.59	< 33.01
2507.8	2524.9		P_1@18	S_0@0	20.72	24.72	< 33.01
2525.3	2542.4				20.54	24.54	< 33.01
2542.9	2560.0				20.05	24.05	< 33.01
2507.8	2524.9		P_1@74	S_0@0	20.66	24.66	< 33.01
2525.3	2542.4				20.56	24.56	< 33.01
2542.9	2560.0				20.40	24.4	< 33.01
2507.8	2524.9		P_75@0	S_100@0	17.98	21.98	< 33.01
2525.3	2542.4				18.27	22.27	< 33.01
2542.9	2560.0				18.93	22.93	< 33.01
2507.5	2564.7	15+15	P_1@0	S_0@0	19.94	23.94	< 33.01
2527.5	2522.5				20.06	24.06	< 33.01
2547.5	2542.5				20.34	24.34	< 33.01
2507.5	2562.5		P_1@18	S_0@0	19.74	23.74	< 33.01
2527.5	2522.5				20.71	24.71	< 33.01
2547.5	2542.5				20.23	24.23	< 33.01
2507.5	2562.5		P_1@74	S_0@0	20.37	24.37	< 33.01
2527.5	2522.5				20.44	24.44	< 33.01
2547.5	2542.5				20.39	24.39	< 33.01
2507.5	2562.5		P_75@0	S_75@0	18.85	22.85	< 33.01
2527.5	2522.5				18.48	22.48	< 33.01
2547.5	2542.5				18.90	22.9	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2505.5	2519.9	10+20	P_1@0	S_0@0	19.37	23.37	< 33.01
2525.6	2540.0				20.41	24.41	< 33.01
2545.6	2560.0				20.55	24.55	< 33.01
2505.5	2519.9		P_1@25	S_0@0	20.32	24.32	< 33.01
2525.6	2540.0				20.33	24.33	< 33.01
2545.6	2560.0				20.83	24.83	< 33.01
2505.5	2519.9		P_1@49	S_0@0	19.93	23.93	< 33.01
2525.6	2540.0				20.23	24.23	< 33.01
2545.6	2560.0				20.59	24.59	< 33.01
2505.5	2519.9		P_50@0	S_100@0	18.36	22.36	< 33.01
2525.6	2540.0				19.71	23.71	< 33.01
2545.6	2560.0				20.50	24.5	< 33.01
2510.0	2524.4	20+10	P_1@0	S_0@0	19.52	23.52	< 33.01
2530.1	2544.5				20.61	24.61	< 33.01
2550.1	2564.5				20.42	24.42	< 33.01
2510.0	2524.4		P_1@49	S_0@0	20.02	24.02	< 33.01
2530.1	2544.5				20.22	24.22	< 33.01
2550.1	2564.5				20.21	24.21	< 33.01
2510.0	2524.4		P_1@99	S_0@0	20.21	24.21	< 33.01
2530.1	2544.5				19.81	23.81	< 33.01
2550.1	2564.5				20.75	24.75	< 33.01
2510.0	2524.4		P_100@0	S_50@0	18.88	22.88	< 33.01
2530.1	2544.5				19.58	23.58	< 33.01
2550.1	2564.5				20.12	24.12	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2507.5	2519.5	15+10	P_1@0	S_0@0	19.54	23.54	< 33.01
2530.1	2542.1				20.21	24.21	< 33.01
2552.7	2564.7				20.02	24.02	< 33.01
2507.5	2519.5		P_1@38	S_0@0	19.86	23.86	< 33.01
2530.1	2542.1				19.85	23.85	< 33.01
2552.7	2564.7				20.02	24.02	< 33.01
2507.5	2519.5		P_1@74	S_0@0	19.92	23.92	< 33.01
2530.1	2542.1				19.97	23.97	< 33.01
2552.7	2564.7				20.02	24.02	< 33.01
2507.5	2519.5		P_75@0	S_50@0	17.95	21.95	< 33.01
2530.1	2542.1				18.11	22.11	< 33.01
2552.7	2564.7				18.61	22.61	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/18 ~ 2022/02/20
Test Band	Intra-Band CA_38C		

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2580.00	2599.80	20+20	P_1@0	S_0@0	21.23	25.23	< 33.01
2585.10	2604.90				21.21	25.21	< 33.01
2590.20	2610.00				21.19	25.19	< 33.01
2580.00	2599.80		P_1@49	S_0@0	21.15	25.15	< 33.01
2585.10	2604.90				21.11	25.11	< 33.01
2590.20	2610.00				21.03	25.03	< 33.01
2580.00	2599.80		P_1@99	S_0@0	21.06	25.06	< 33.01
2585.10	2604.90				21.09	25.09	< 33.01
2590.20	2610.00				21.23	25.23	< 33.01
2580.00	2599.80		P_100@0	S_100@0	20.00	24.00	< 33.01
2585.10	2604.90				19.88	23.88	< 33.01
2590.20	2610.00				19.92	23.92	< 33.01
2577.50	2592.50	15+15	P_1@0	S_0@0	21.25	25.25	< 33.01
2587.50	2602.50				21.19	25.19	< 33.01
2597.50	2612.50				21.20	25.20	< 33.01
2577.50	2592.50		P_1@38	S_0@0	21.08	25.08	< 33.01
2587.50	2602.50				20.96	24.96	< 33.01
2597.50	2612.50				21.08	25.08	< 33.01
2577.50	2592.50		P_1@74	S_0@0	21.19	25.19	< 33.01
2587.50	2602.50				21.02	25.02	< 33.01
2597.50	2612.50				21.19	25.19	< 33.01
2577.50	2592.50		P_75@0	S_75@0	19.99	23.99	< 33.01
2587.50	2602.50				19.90	23.90	< 33.01
2597.50	2612.50				19.93	23.93	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2580.00	2599.80	20+20	P_1@0	S_0@0	20.19	24.19	< 33.01
2585.10	2604.90				20.16	24.16	< 33.01
2590.20	2610.00				20.10	24.10	< 33.01
2580.00	2599.80		P_1@49	S_0@0	20.35	24.35	< 33.01
2585.10	2604.90				20.09	24.09	< 33.01
2590.20	2610.00				19.90	23.90	< 33.01
2580.00	2599.80		P_1@99	S_0@0	19.98	23.98	< 33.01
2585.10	2604.90				19.99	23.99	< 33.01
2590.20	2610.00				20.40	24.40	< 33.01
2580.00	2599.80		P_100@0	S_100@0	19.02	23.02	< 33.01
2585.10	2604.90				18.89	22.89	< 33.01
2590.20	2610.00				18.95	22.95	< 33.01
2577.50	2592.50	15+15	P_1@0	S_0@0	19.97	23.97	< 33.01
2587.50	2602.50				19.99	23.99	< 33.01
2597.50	2612.50				20.03	24.03	< 33.01
2577.50	2592.50		P_1@38	S_0@0	19.78	23.78	< 33.01
2587.50	2602.50				19.84	23.84	< 33.01
2597.50	2612.50				19.98	23.98	< 33.01
2577.50	2592.50		P_1@74	S_0@0	19.89	23.89	< 33.01
2587.50	2602.50				20.01	24.01	< 33.01
2597.50	2612.50				20.02	24.02	< 33.01
2577.50	2592.50		P_75@0	S_75@0	18.99	22.99	< 33.01
2587.50	2602.50				18.91	22.91	< 33.01
2597.50	2612.50				18.94	22.94	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/18 ~ 2022/02/20
Test Band	Intra-Band CA_41C		

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2506.00	2523.10	20+15	P_1@0	S_0@0	21.11	25.11	< 33.01
2585.60	2602.70				21.58	25.58	< 33.01
2665.10	2682.20				21.89	25.89	< 33.01
2506.00	2523.10		P_1@49	S_0@0	21.05	25.05	< 33.01
2585.60	2602.70				21.43	25.43	< 33.01
2665.10	2682.20				21.73	25.73	< 33.01
2506.00	2523.10		P_1@99	S_0@0	21.23	25.23	< 33.01
2585.60	2602.70				21.59	25.59	< 33.01
2665.10	2682.20				21.87	25.87	< 33.01
2506.00	2523.10		P_100@0	S_75@0	19.96	23.96	< 33.01
2585.60	2602.70				20.32	24.32	< 33.01
2665.10	2682.20				20.61	24.61	< 33.01
2503.80	2520.90	15+20	P_1@0	S_0@0	21.17	25.17	< 33.01
2593.30	2600.40				21.61	25.61	< 33.01
2662.90	2680.00				21.82	25.82	< 33.01
2503.80	2520.90		P_1@38	S_0@0	21.08	25.08	< 33.01
2593.30	2600.40				21.44	25.44	< 33.01
2662.90	2680.00				21.74	25.74	< 33.01
2503.80	2520.90		P_1@74	S_0@0	21.12	25.12	< 33.01
2593.30	2600.40				21.52	25.52	< 33.01
2662.90	2680.00				21.76	25.76	< 33.01
2503.80	2520.90		P_75@0	S_100@0	19.89	23.89	< 33.01
2593.30	2600.40				20.31	24.31	< 33.01
2662.90	2680.00				20.54	24.54	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2506.00	2520.40	20+10	P_1@0	S_0@0	21.21	25.21	< 33.01
2588.10	2602.50				21.61	25.61	< 33.01
2670.10	2684.50				21.80	25.80	< 33.01
2506.00	2520.40		P_1@49	S_0@0	21.06	25.06	< 33.01
2588.10	2602.50				21.51	25.51	< 33.01
2670.10	2684.50				21.70	25.70	< 33.01
2506.00	2520.40		P_1@99	S_0@0	21.12	25.12	< 33.01
2588.10	2602.50				21.63	25.63	< 33.01
2670.10	2684.50				21.94	25.94	< 33.01
2506.00	2520.40		P_100@0	S_50@0	19.94	23.94	< 33.01
2588.10	2602.50				20.39	24.39	< 33.01
2670.10	2684.50				20.61	24.61	< 33.01
2501.50	2515.90	10+20	P_1@0	S_0@0	21.16	25.16	< 33.01
2583.60	2598.00				21.56	25.56	< 33.01
2665.60	2680.00				21.77	25.77	< 33.01
2501.50	2515.90		P_1@25	S_0@0	21.02	25.02	< 33.01
2583.60	2598.00				21.46	25.46	< 33.01
2665.60	2680.00				21.69	25.69	< 33.01
2501.50	2515.90		P_1@49	S_0@0	21.02	25.02	< 33.01
2583.60	2598.00				21.47	25.47	< 33.01
2665.60	2680.00				21.49	25.49	< 33.01
2501.50	2515.90		P_50@0	S_100@0	19.87	23.87	< 33.01
2583.60	2598.00				20.31	24.31	< 33.01
2665.60	2680.00				20.61	24.61	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2506.00	2517.70	20+5	P_1@0	S_0@0	21.19	25.19	< 33.01
2590.50	2602.20				21.90	25.90	< 33.01
2675.00	2686.70				21.96	25.96	< 33.01
2506.00	2517.70		P_1@49	S_0@0	21.16	25.16	< 33.01
2590.50	2602.20				21.63	25.63	< 33.01
2675.00	2686.70				21.91	25.91	< 33.01
2506.00	2517.70		P_1@99	S_0@0	21.05	25.05	< 33.01
2590.50	2602.20				21.52	25.52	< 33.01
2675.00	2686.70				21.81	25.81	< 33.01
2506.00	2517.70		P_100@	S_25@0	21.01	25.01	< 33.01
2590.50	2602.20				20.40	24.40	< 33.01
2675.00	2686.70				20.57	24.57	< 33.01
2499.30	2511.00	5+20	P_1@0	S_0@0	21.15	25.15	< 33.01
2583.80	2595.50				21.57	25.57	< 33.01
2668.30	2680.00				21.83	25.83	< 33.01
2499.30	2511.00		P_1@13	S_0@0	21.11	25.11	< 33.01
2583.80	2595.50				21.52	25.52	< 33.01
2668.30	2680.00				21.81	25.81	< 33.01
2499.30	2511.00		P_1@24	S_0@0	21.05	25.05	< 33.01
2583.80	2595.50				21.51	25.51	< 33.01
2668.30	2680.00				21.73	25.73	< 33.01
2499.30	2511.00		P_25@0	S_100@0	19.76	23.76	< 33.01
2583.80	2595.50				20.31	24.31	< 33.01
2668.30	2680.00				20.56	24.56	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2501.30	2513.30	10+15	P_1@0	S_0@0	21.07	25.07	< 33.01
2585.90	2597.90				21.55	25.55	< 33.01
2670.50	2682.50				21.82	25.82	< 33.01
2501.30	2513.30		P_1@25	S_0@0	20.93	24.93	< 33.01
2585.90	2597.90				21.52	25.52	< 33.01
2670.50	2682.50				21.81	25.81	< 33.01
2501.30	2513.30		P_1@49	S_0@0	21.02	25.02	< 33.01
2585.90	2597.90				21.60	25.60	< 33.01
2670.50	2682.50				21.87	25.87	< 33.01
2501.30	2513.30		P_50@0	S_75@0	19.81	23.81	< 33.01
2585.90	2597.90				20.36	24.36	< 33.01
2670.50	2682.50				20.63	24.63	< 33.01
2503.50	2515.50	15+10	P_1@0	S_0@0	21.11	25.11	< 33.01
2588.10	2600.10				21.61	25.61	< 33.01
2672.70	2684.70				21.93	25.93	< 33.01
2503.50	2515.50		P_1@38	S_0@0	21.14	25.14	< 33.01
2588.10	2600.10				21.61	25.61	< 33.01
2672.70	2684.70				21.93	25.93	< 33.01
2503.50	2515.50		P_1@74	S_0@0	21.13	25.13	< 33.01
2588.10	2600.10				21.65	25.65	< 33.01
2672.70	2684.70				21.66	25.66	< 33.01
2503.50	2515.50		P_75@0	S_50@0	19.91	23.91	< 33.01
2588.10	2600.10				20.41	24.41	< 33.01
2672.70	2684.70				20.57	24.57	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2503.50	2518.50	15+15	P_1@0	S_0@0	21.15	25.15	< 33.01
2585.50	2600.50				21.56	25.56	< 33.01
2667.50	2682.50				21.90	25.90	< 33.01
2503.50	2518.50		P_1@38	S_0@0	21.11	25.11	< 33.01
2585.50	2600.50				21.42	25.42	< 33.01
2667.50	2682.50				21.75	25.75	< 33.01
2503.50	2518.50		P_1@74	S_0@0	21.15	25.15	< 33.01
2585.50	2600.50				21.57	25.57	< 33.01
2667.50	2682.50				21.81	25.81	< 33.01
2503.50	2518.50		P_100@0	S_75@0	19.88	23.88	< 33.01
2585.50	2600.50				20.34	24.34	< 33.01
2667.50	2682.50				20.62	24.62	< 33.01
2506.00	2525.80	20+20	P_1@0	S_0@0	21.06	25.06	< 33.01
2583.10	2602.90				21.62	25.62	< 33.01
2660.20	2680.00				21.86	25.86	< 33.01
2506.00	2525.80		P_1@49	S_0@0	20.98	24.98	< 33.01
2583.10	2602.90				21.56	25.56	< 33.01
2660.20	2680.00				21.74	25.74	< 33.01
2506.00	2525.80		P_1@99	S_0@0	21.07	25.07	< 33.01
2583.10	2602.90				21.68	25.68	< 33.01
2660.20	2680.00				21.84	25.84	< 33.01
2506.00	2525.80		P_75@0	S_100@0	19.93	23.93	< 33.01
2583.10	2602.90				20.31	24.31	< 33.01
2660.20	2680.00				20.63	24.63	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2506.00	2523.10	20+15	P_1@0	S_0@0	19.98	23.98	< 33.01
2585.60	2602.70				20.46	24.46	< 33.01
2665.10	2682.20				21.08	25.08	< 33.01
2506.00	2523.10		P_1@49	S_0@0	20.08	24.08	< 33.01
2585.60	2602.70				20.33	24.33	< 33.01
2665.10	2682.20				20.88	24.88	< 33.01
2506.00	2523.10		P_1@99	S_0@0	20.24	24.24	< 33.01
2585.60	2602.70				20.49	24.49	< 33.01
2665.10	2682.20				21.03	25.03	< 33.01
2506.00	2523.10		P_100@0	S_75@0	18.95	22.95	< 33.01
2585.60	2602.70				19.40	23.40	< 33.01
2665.10	2682.20				19.61	23.61	< 33.01
2503.80	2520.90	15+20	P_1@0	S_0@0	20.31	24.31	< 33.01
2593.30	2600.40				20.91	24.91	< 33.01
2662.90	2680.00				21.01	25.01	< 33.01
2503.80	2520.90		P_1@38	S_0@0	20.28	24.28	< 33.01
2593.30	2600.40				20.81	24.81	< 33.01
2662.90	2680.00				20.87	24.87	< 33.01
2503.80	2520.90		P_1@74	S_0@0	20.28	24.28	< 33.01
2593.30	2600.40				20.90	24.90	< 33.01
2662.90	2680.00				20.92	24.92	< 33.01
2503.80	2520.90		P_75@0	S_100@0	18.91	22.91	< 33.01
2593.30	2600.40				19.35	23.35	< 33.01
2662.90	2680.00				19.58	23.58	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2506.00	2520.40	20+10	P_1@0	S_0@0	20.27	24.27	< 33.01
2588.10	2602.50				20.52	24.52	< 33.01
2670.10	2684.50				20.98	24.98	< 33.01
2506.00	2520.40		P_1@49	S_0@0	20.26	24.26	< 33.01
2588.10	2602.50				20.40	24.40	< 33.01
2670.10	2684.50				20.59	24.59	< 33.01
2506.00	2520.40		P_1@99	S_0@0	20.33	24.33	< 33.01
2588.10	2602.50				20.73	24.73	< 33.01
2670.10	2684.50				20.67	24.67	< 33.01
2506.00	2520.40		P_100@0	S_50@0	19.01	23.01	< 33.01
2588.10	2602.50				19.43	23.43	< 33.01
2670.10	2684.50				19.66	23.66	< 33.01
2501.50	2515.90	10+20	P_1@0	S_0@0	20.18	24.18	< 33.01
2583.60	2598.00				20.98	24.98	< 33.01
2665.60	2680.00				21.01	25.01	< 33.01
2501.50	2515.90		P_1@25	S_0@0	20.06	24.06	< 33.01
2583.60	2598.00				20.81	24.81	< 33.01
2665.60	2680.00				20.86	24.86	< 33.01
2501.50	2515.90		P_1@49	S_0@0	20.08	24.08	< 33.01
2583.60	2598.00				20.66	24.66	< 33.01
2665.60	2680.00				20.59	24.59	< 33.01
2501.50	2515.90		P_50@0	S_100@0	18.85	22.85	< 33.01
2583.60	2598.00				19.36	23.36	< 33.01
2665.60	2680.00				19.61	23.61	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2506.00	2517.70	20+5	P_1@0	S_0@0	20.38	24.38	< 33.01
2590.50	2602.20				20.79	24.79	< 33.01
2675.00	2686.70				21.12	25.12	< 33.01
2506.00	2517.70		P_1@49	S_0@0	20.23	24.23	< 33.01
2590.50	2602.20				20.84	24.84	< 33.01
2675.00	2686.70				21.11	25.11	< 33.01
2506.00	2517.70		P_1@99	S_0@0	20.26	24.26	< 33.01
2590.50	2602.20				20.73	24.73	< 33.01
2675.00	2686.70				21.06	25.06	< 33.01
2506.00	2517.70		P_100@	S_25@0	20.06	24.06	< 33.01
2590.50	2602.20				19.44	23.44	< 33.01
2675.00	2686.70				19.75	23.75	< 33.01
2499.30	2511.00	5+20	P_1@0	S_0@0	20.26	24.26	< 33.01
2583.80	2595.50				20.89	24.89	< 33.01
2668.30	2680.00				21.11	25.11	< 33.01
2499.30	2511.00		P_1@13	S_0@0	20.21	24.21	< 33.01
2583.80	2595.50				20.88	24.88	< 33.01
2668.30	2680.00				21.09	25.09	< 33.01
2499.30	2511.00		P_1@24	S_0@0	20.16	24.16	< 33.01
2583.80	2595.50				20.71	24.71	< 33.01
2668.30	2680.00				20.92	24.92	< 33.01
2499.30	2511.00		P_25@0	S_100@0	18.88	22.88	< 33.01
2583.80	2595.50				19.31	23.31	< 33.01
2668.30	2680.00				19.54	23.54	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2501.30	2513.30	10+15	P_1@0	S_0@0	20.26	24.26	< 33.01
2585.90	2597.90				20.55	24.55	< 33.01
2670.50	2682.50				20.98	24.98	< 33.01
2501.30	2513.30		P_1@25	S_0@0	20.19	24.19	< 33.01
2585.90	2597.90				20.42	24.42	< 33.01
2670.50	2682.50				20.73	24.73	< 33.01
2501.30	2513.30		P_1@49	S_0@0	20.27	24.27	< 33.01
2585.90	2597.90				20.78	24.78	< 33.01
2670.50	2682.50				20.86	24.86	< 33.01
2501.30	2513.30		P_50@0	S_75@0	18.88	22.88	< 33.01
2585.90	2597.90				19.36	23.36	< 33.01
2670.50	2682.50				19.65	23.65	< 33.01
2503.50	2515.50	15+10	P_1@0	S_0@0	20.32	24.32	< 33.01
2588.10	2600.10				20.75	24.75	< 33.01
2672.70	2684.70				20.85	24.85	< 33.01
2503.50	2515.50		P_1@38	S_0@0	20.29	24.29	< 33.01
2588.10	2600.10				20.78	24.78	< 33.01
2672.70	2684.70				20.83	24.83	< 33.01
2503.50	2515.50		P_1@74	S_0@0	20.40	24.40	< 33.01
2588.10	2600.10				20.80	24.80	< 33.01
2672.70	2684.70				20.81	24.81	< 33.01
2503.50	2515.50		P_75@0	S_50@0	18.96	22.96	< 33.01
2588.10	2600.10				19.39	23.39	< 33.01
2672.70	2684.70				19.63	23.63	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2503.50	2518.50	15+15	P_1@0	S_0@0	20.16	24.16	< 33.01
2585.50	2600.50				20.82	24.82	< 33.01
2667.50	2682.50				21.02	25.02	< 33.01
2503.50	2518.50		P_1@38	S_0@0	20.10	24.10	< 33.01
2585.50	2600.50				20.72	24.72	< 33.01
2667.50	2682.50				20.88	24.88	< 33.01
2503.50	2518.50		P_1@74	S_0@0	20.17	24.17	< 33.01
2585.50	2600.50				20.83	24.83	< 33.01
2667.50	2682.50				20.95	24.95	< 33.01
2503.50	2518.50		P_100@0	S_75@0	18.89	22.89	< 33.01
2585.50	2600.50				19.30	23.30	< 33.01
2667.50	2682.50				19.62	23.62	< 33.01
2506.00	2525.80	20+20	P_1@0	S_0@0	19.91	23.91	< 33.01
2583.10	2602.90				20.79	24.79	< 33.01
2660.20	2680.00				20.85	24.85	< 33.01
2506.00	2525.80		P_1@49	S_0@0	19.85	23.85	< 33.01
2583.10	2602.90				20.74	24.74	< 33.01
2660.20	2680.00				20.80	24.80	< 33.01
2506.00	2525.80		P_1@99	S_0@0	19.97	23.97	< 33.01
2583.10	2602.90				20.86	24.86	< 33.01
2660.20	2680.00				20.84	24.84	< 33.01
2506.00	2525.80		P_75@0	S_100@0	18.93	22.93	< 33.01
2583.10	2602.90				19.35	23.35	< 33.01
2660.20	2680.00				19.63	23.63	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

5.4. Band Edge Measurement

5.4.1. Test Limit

22.917(a)

For operations in the 824 ~ 849 MHz, the FCC limit is $43 + 10\log_{10}(P_{\text{[Watts]}})$ dB below the transmitter power P (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.

27.53(m)(4)

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.

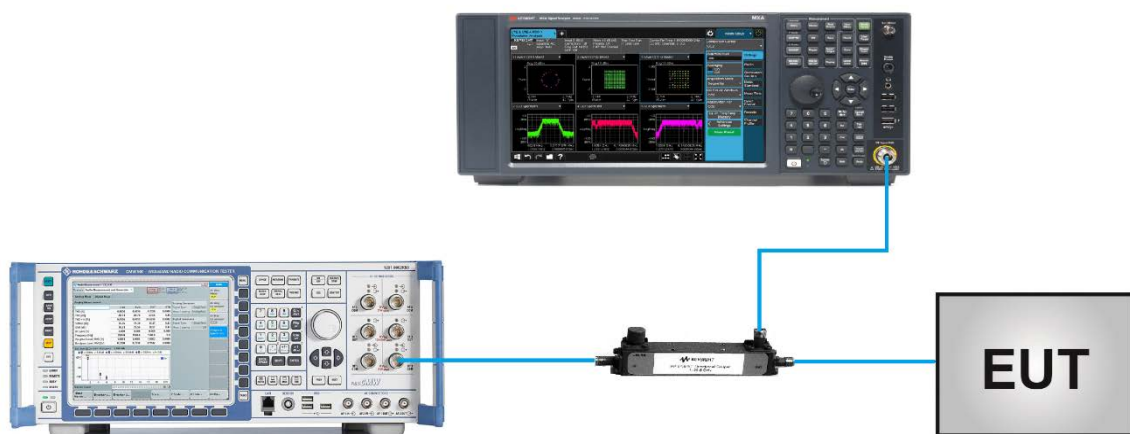
5.4.2. Test Procedure

ANSI C63.26-2015 - Section 5.7

5.4.3.Test Setting

1. Set the analyzer frequency to low or high channel
2. $RBW \geq$ The nominal RBW shall be in the range of 1% of the anticipated OBW (in the 1MHz band immediately outside and adjacent to the band edge). For improvement of the accuracy in the measurement of the average power of a noise-like emission, a RBW narrower than the specified reference bandwidth can be used (generally limited to no less than 1% of the OBW), provided that a subsequent integration is performed over the full required measurement bandwidth. This integration should be performed using the spectrum analyzer's band power functions.
3. $VBW \geq 3 \cdot RBW$
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.
To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

5.4.4.Test Setup



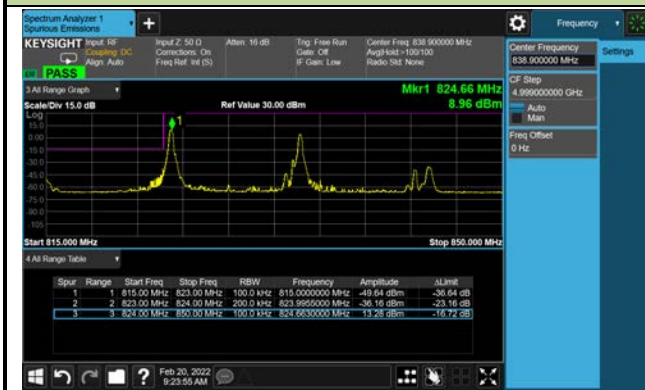
5.4.5. Test Result

Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/20 ~ 2022/03/07
Test Band	Intra-Band CA_5B_QPSK		



10+10MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0

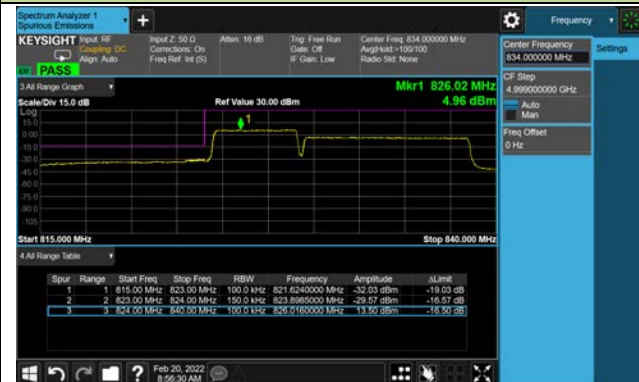


Upper Band Edge/1RB@49 and 1RB@49



5+10MHz Channel Bandwidth Full RB

Lower Band Edge

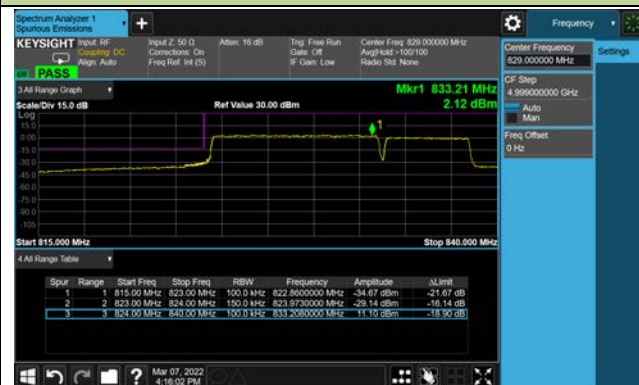


Upper Band Edge



10+5MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge



10+10MHz Channel Bandwidth Full RB

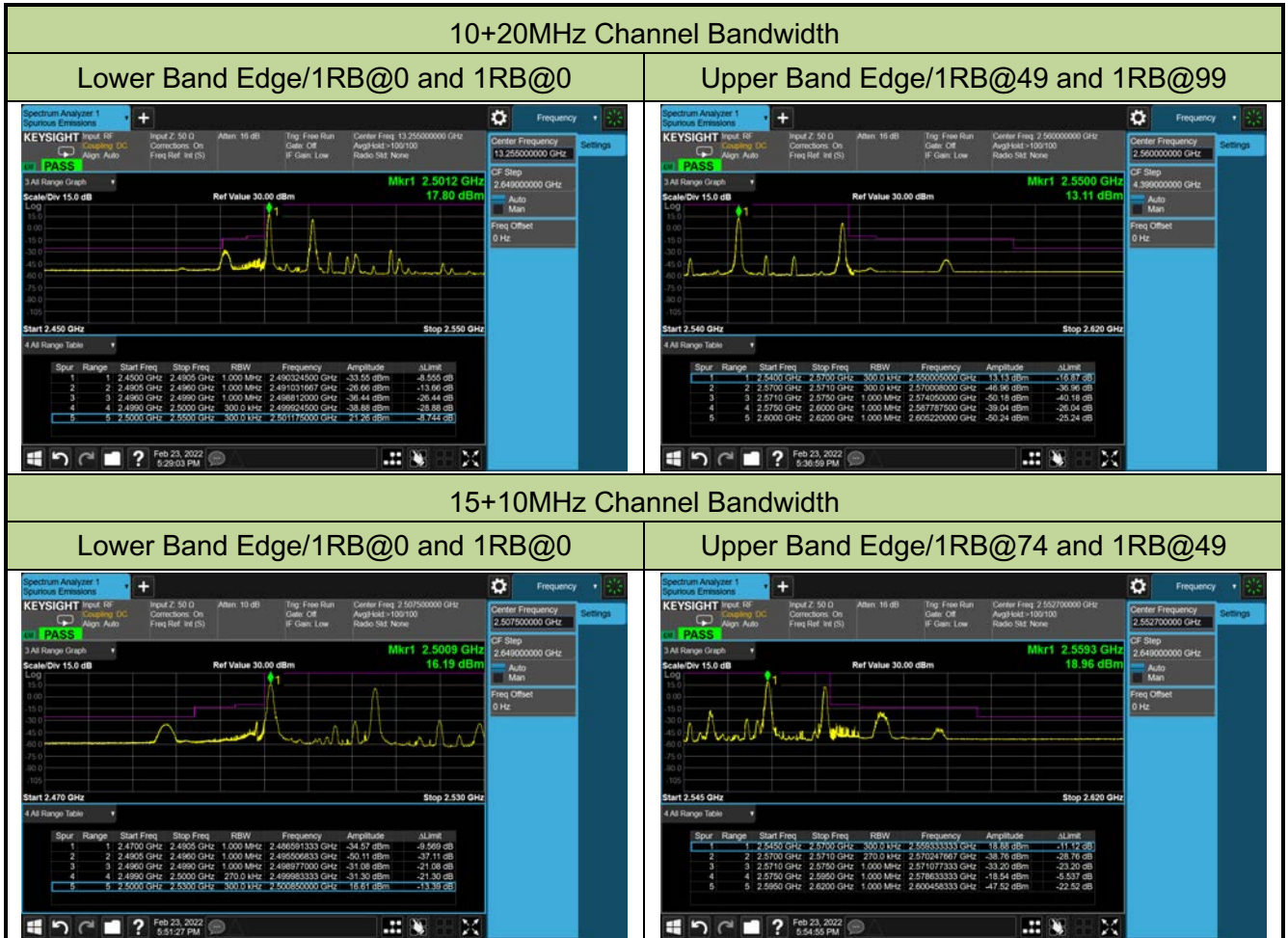
Lower Band Edge



Upper Band Edge

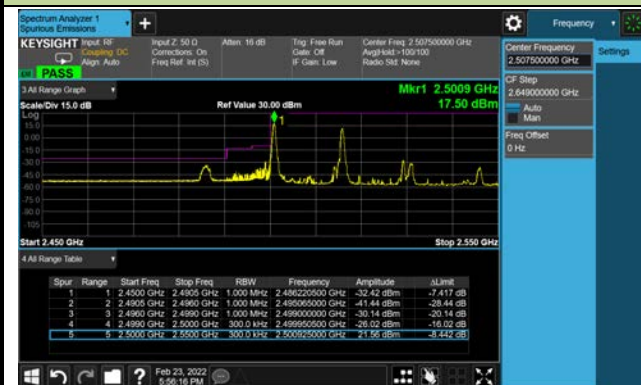


Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/23
Test Band	Intra-Band CA_7C_QPSK		

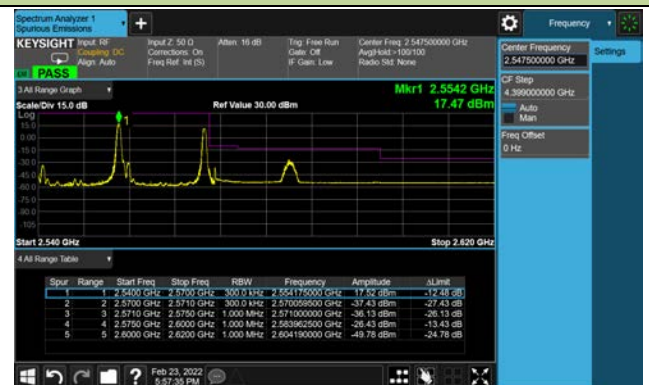


15+15MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0

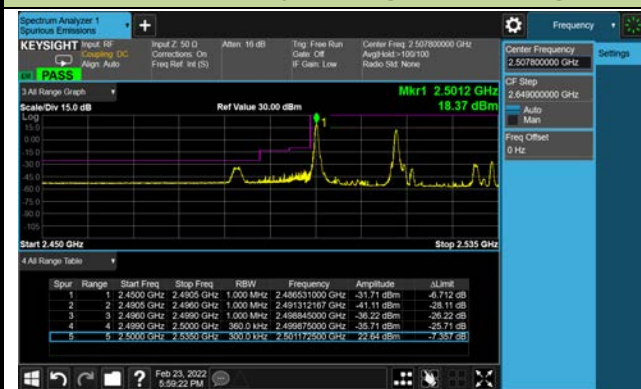


Upper Band Edge/1RB@74 and 1RB@74

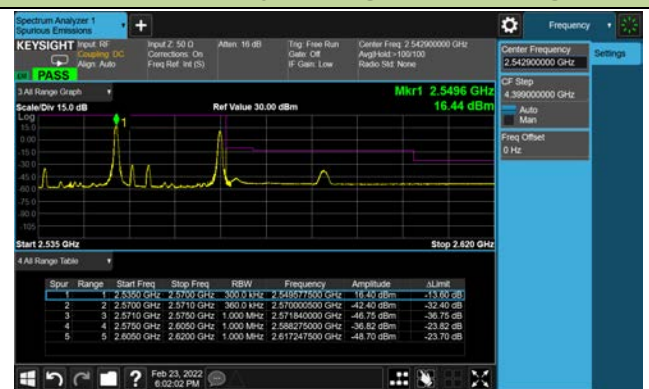


15+20MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0

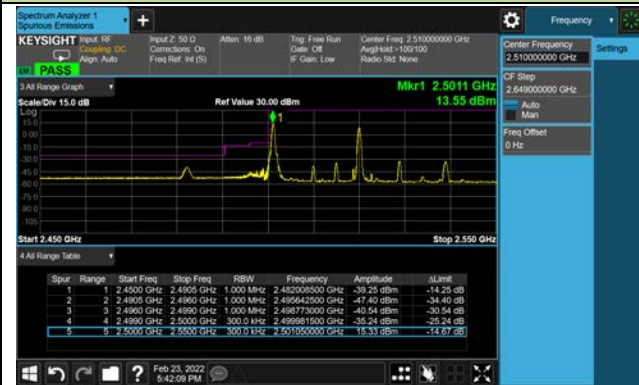


Upper Band Edge/1RB@74 and 1RB@99

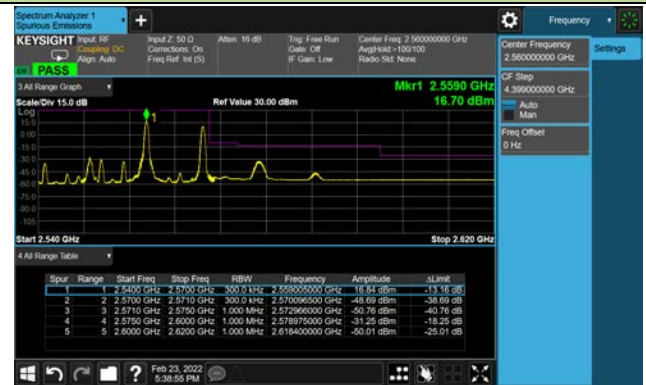


20+10MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0

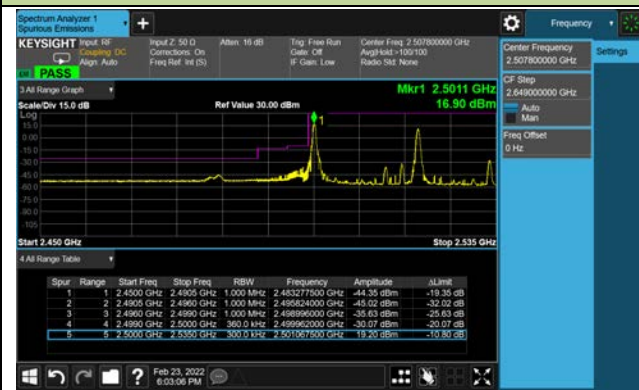


Upper Band Edge/1RB@99 and 1RB@49

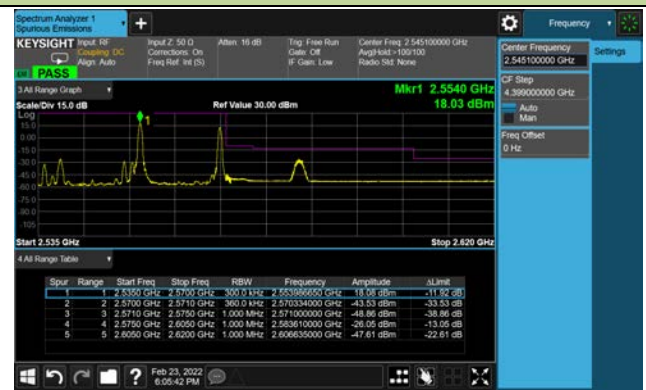


20+15MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0

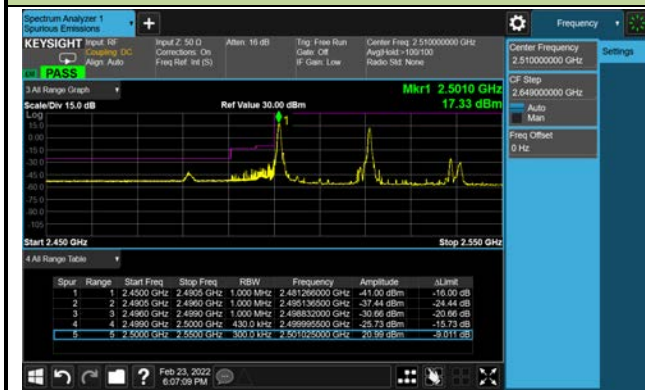


Upper Band Edge/1RB@99 and 1RB@74

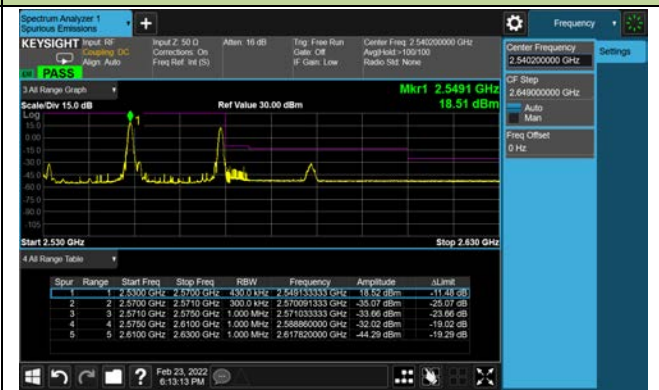


20+20MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0



Upper Band Edge/1RB@99 and 1RB@99



10+20MHz Channel Bandwidth Full RB

Lower Band Edge

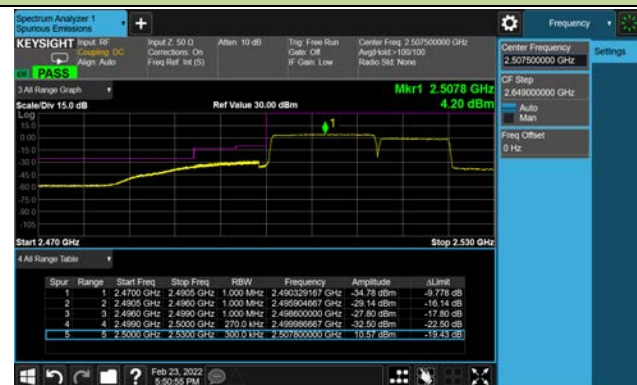


Upper Band Edge



15+10MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge



15+15MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge



15+20MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge

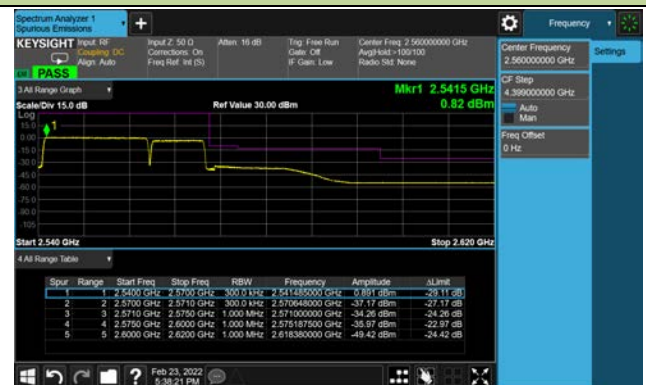


20+10MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge



20+15MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge



20+20MHz Channel Bandwidth Full RB

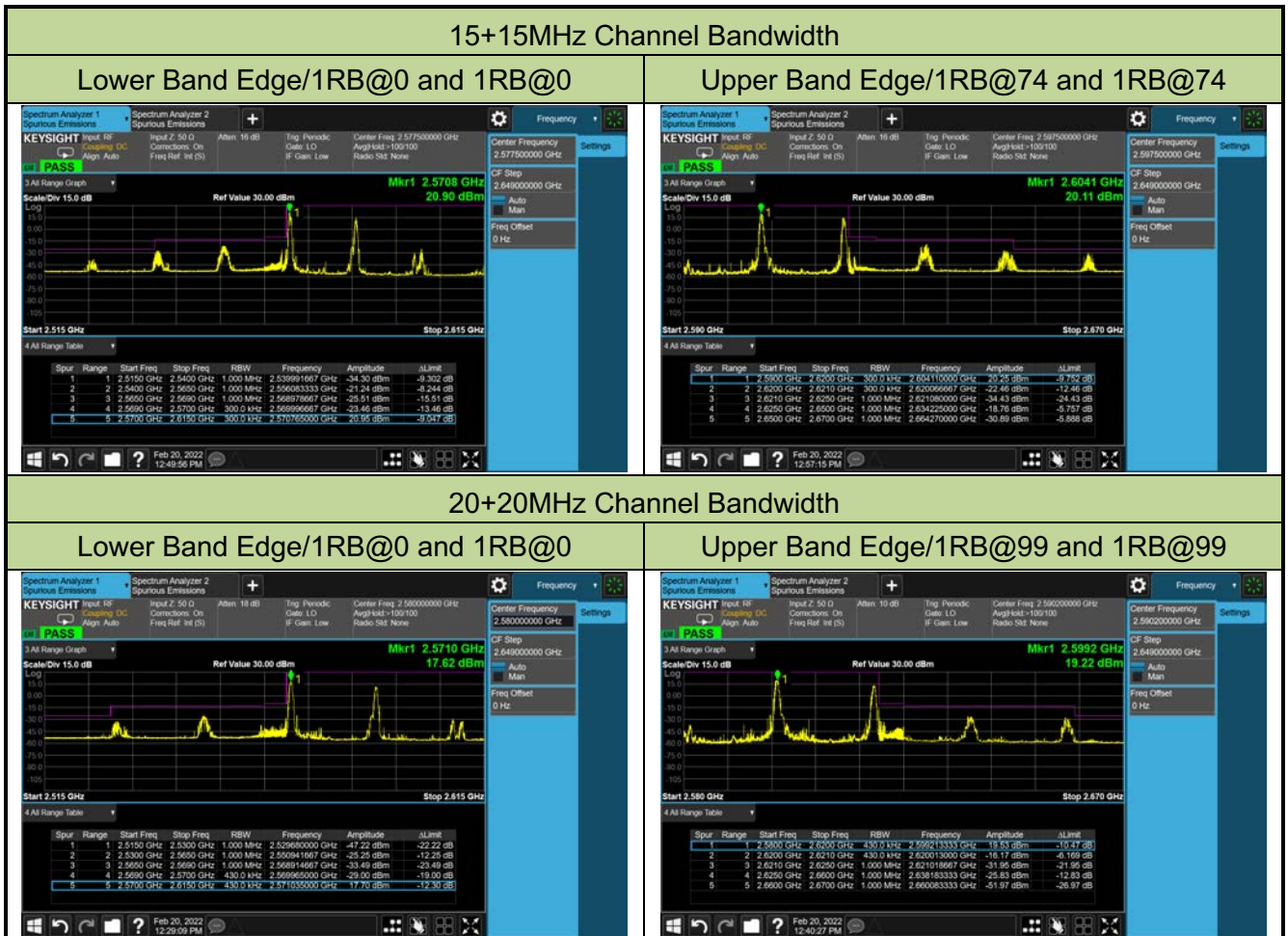
Lower Band Edge



Upper Band Edge



Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/20
Test Band	Intra-Band CA_38C_QPSK		



15+15MHz Channel Bandwidth Full RB

Lower Band Edge

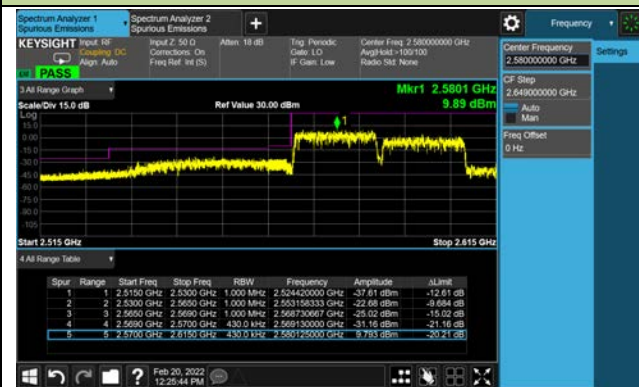


Upper Band Edge

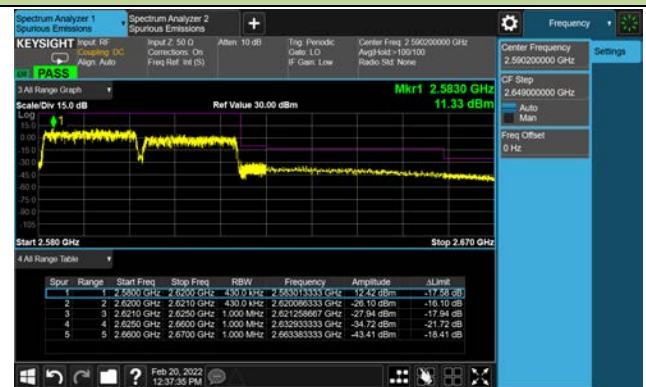


20+20MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge

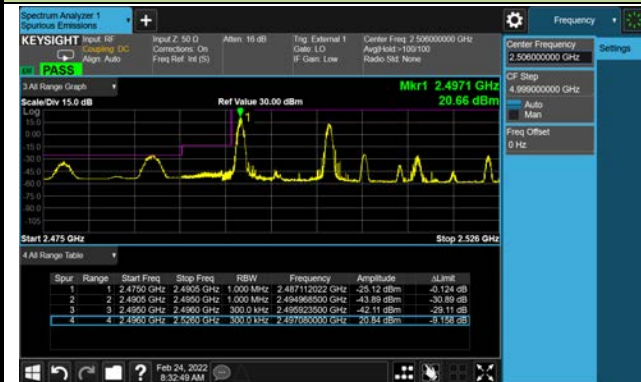


Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/24 ~ 2022/02/26
Test Band	Intra-Band CA_41C_QPSK		

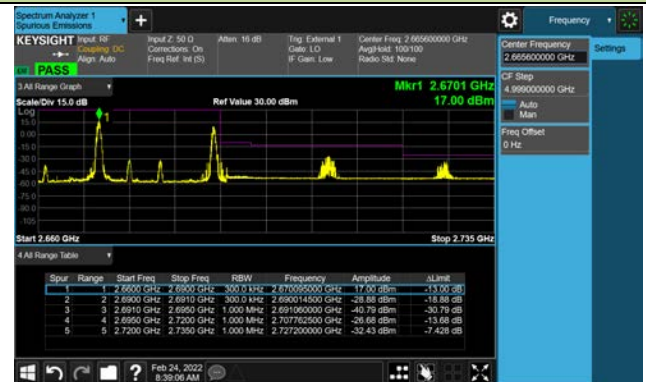


10+20MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0



Upper Band Edge/1RB@49 and 1RB@99

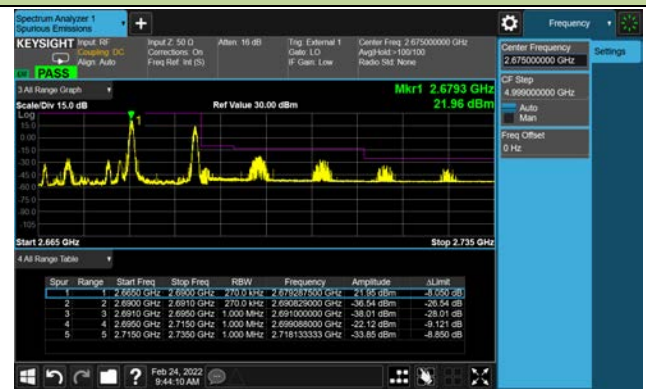


15+10MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0

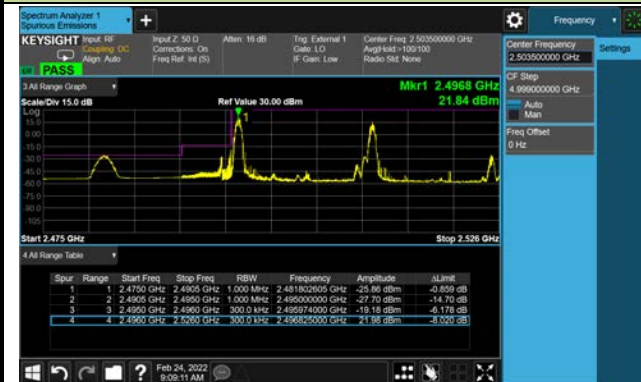


Upper Band Edge/1RB@74 and 1RB@49

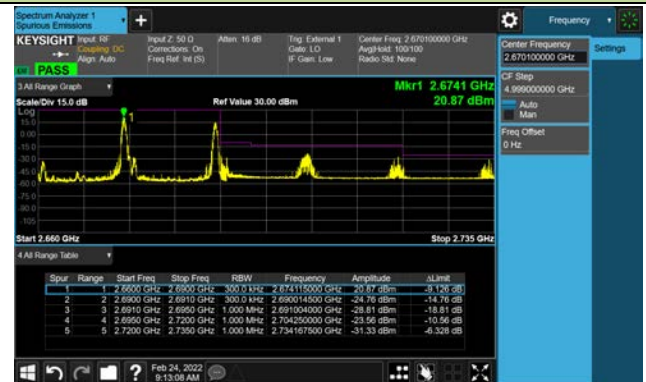


15+15MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0

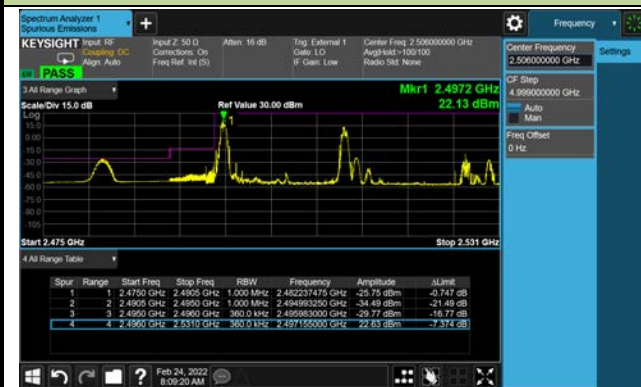


Upper Band Edge/1RB@74 and 1RB@74

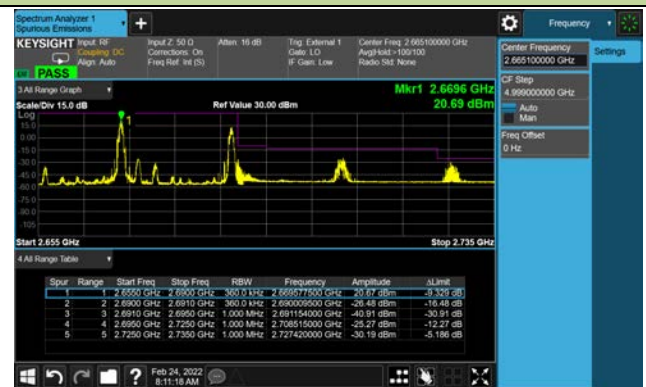


15+20MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0

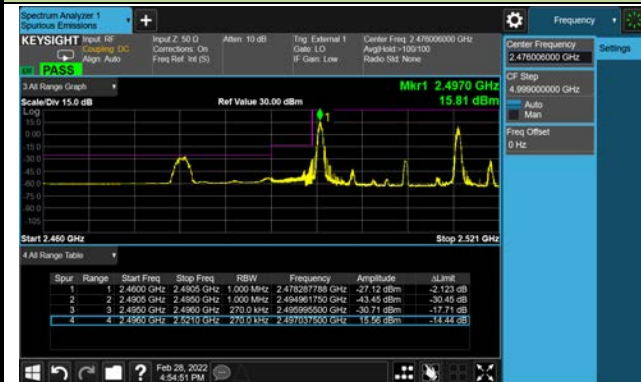


Upper Band Edge/1RB@74 and 1RB@99



20+5MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0

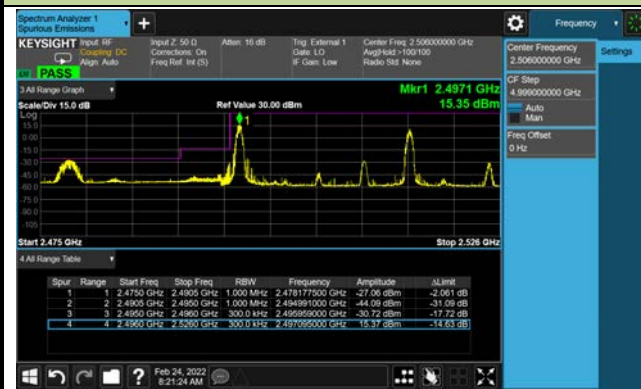


Upper Band Edge/1RB@99 and 1RB@24

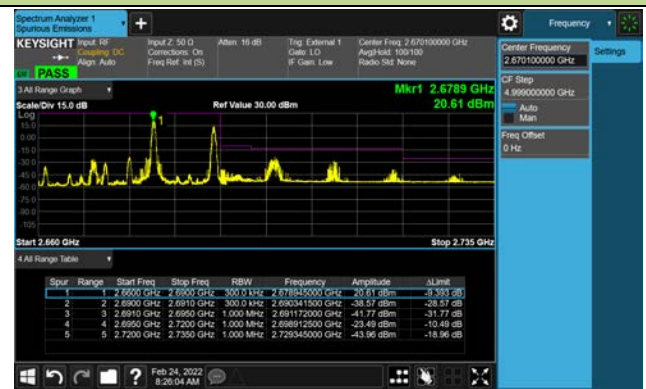


20+10MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0

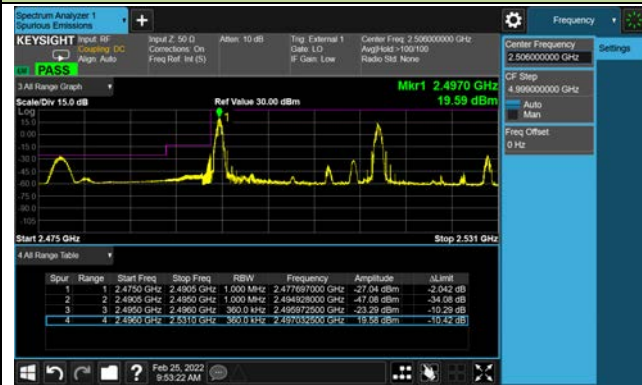


Upper Band Edge/1RB@99 and 1RB@49

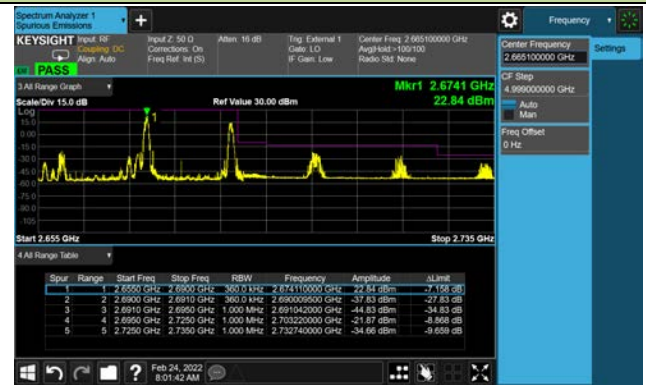


20+15MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0

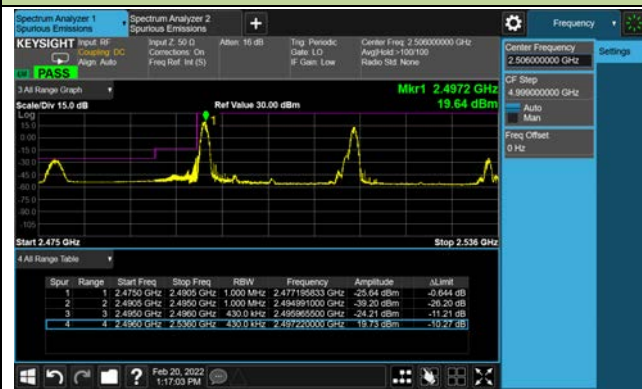


Upper Band Edge/1RB@99 and 1RB@74

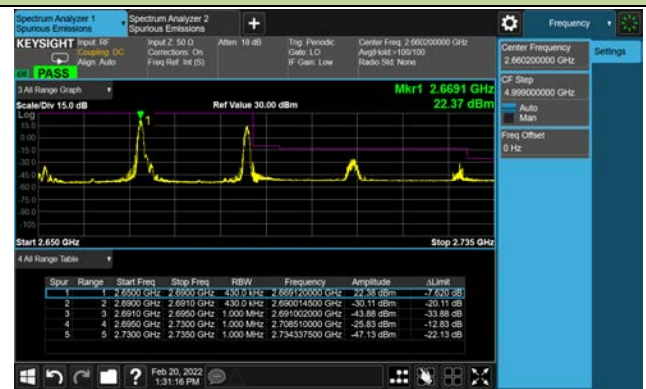


20+20MHz Channel Bandwidth

Lower Band Edge/1RB@0 and 1RB@0



Upper Band Edge/1RB@99 and 1RB@99



5+20MHz Channel Bandwidth Full RB

Lower Band Edge

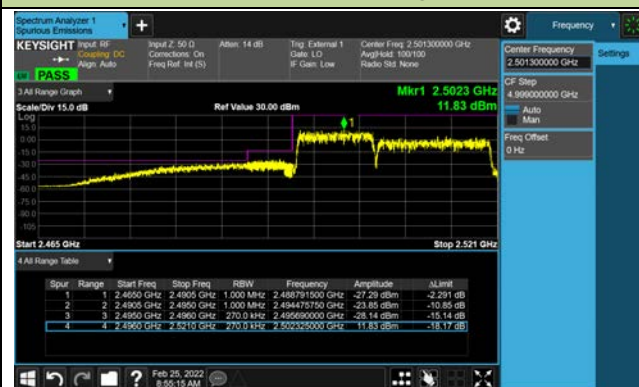


Upper Band Edge



10+15MHz Channel Bandwidth Full RB

Lower Band Edge

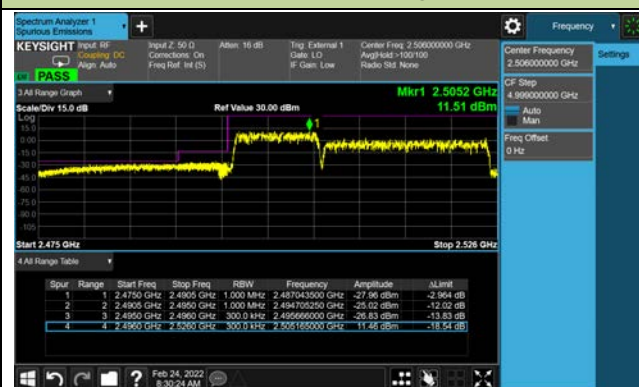


Upper Band Edge



10+20MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge



15+10MHz Channel Bandwidth Full RB

Lower Band Edge

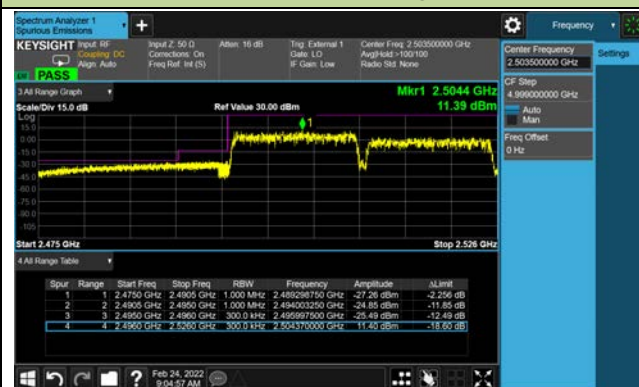


Upper Band Edge

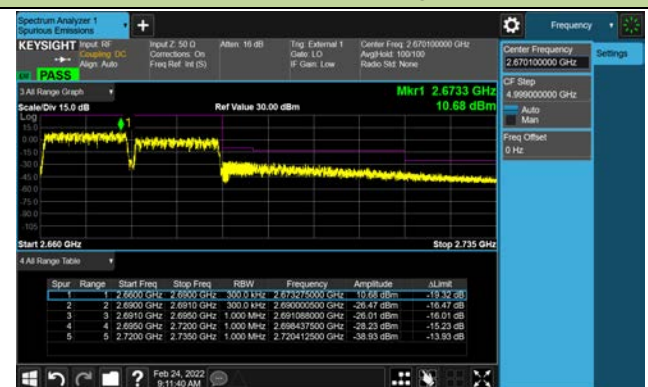


15+15MHz Channel Bandwidth Full RB

Lower Band Edge

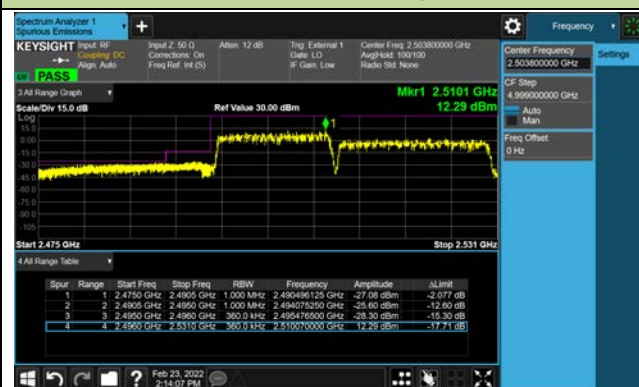


Upper Band Edge



15+20MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge



20+5MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge



20+10MHz Channel Bandwidth Full RB

Lower Band Edge

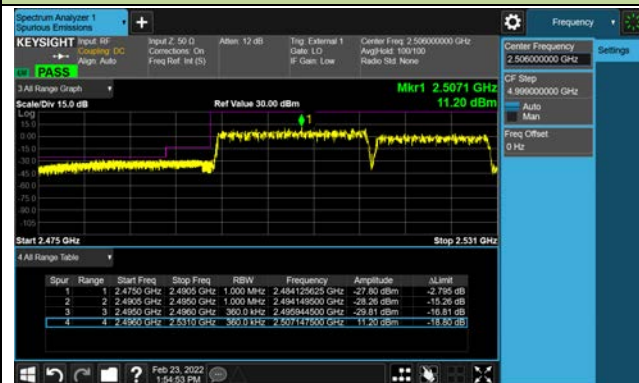


Upper Band Edge



20+15MHz Channel Bandwidth Full RB

Lower Band Edge

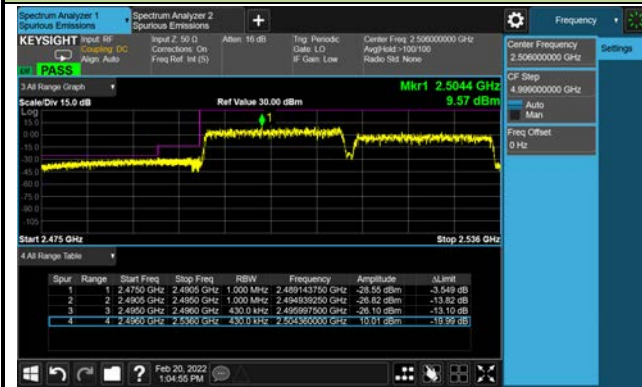


Upper Band Edge



20+20MHz Channel Bandwidth Full RB

Lower Band Edge



Upper Band Edge



5.5. Conducted Spurious Emission Measurement

5.5.1. Test Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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.

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.

5.5.2. Test Procedure

ANSI C63.26-2015 - Section 5.7

5.5.3. Test Setting

1. Set the analyzer frequency to low, mid, high channel.
 2. RBW = 1MHz
 3. VBW $\geq 3 \times$ RBW
 4. Sweep time = auto
 5. Detector = power averaging (rms)
 6. Set sweep trigger to "free run."
 7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
 8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.
- To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

5.5.4. Test Setup



5.5.5. Test Result

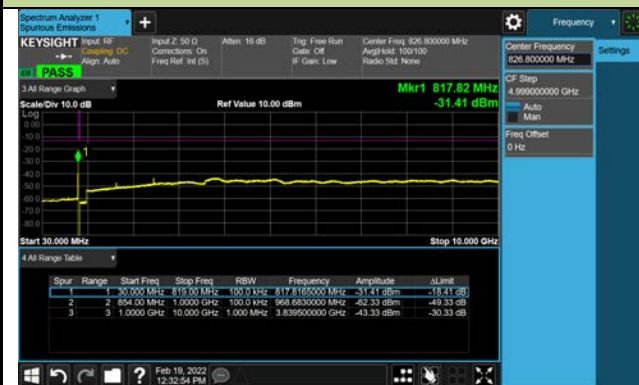
Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2022/02/19
Test Band	Intra-Band CA_5B_1RB_QPSK		

Frequency (MHz)		Channel Bandwidth (MHz)	Frequency Range (MHz)	Max Spurious Emissions (dBm)	Limit (dBm)	Result
PCC	SCC					
826.8	834.0	5+10	30 ~ 10000	-31.41	≤ -13.00	Pass
831.8	839.0	5+10	30 ~ 10000	-38.59	≤ -13.00	Pass
836.8	844.0	5+10	30 ~ 10000	-39.39	≤ -13.00	Pass
829.0	836.2	10+5	30 ~ 10000	-31.52	≤ -13.00	Pass
834.0	841.2	10+5	30 ~ 10000	-38.80	≤ -13.00	Pass
839.0	846.2	10+5	30 ~ 10000	-41.29	≤ -13.00	Pass
829.0	838.9	10+10	30 ~ 10000	-31.00	≤ -13.00	Pass
831.6	841.5	10+10	30 ~ 10000	-30.63	≤ -13.00	Pass
834.1	844.0	10+10	30 ~ 10000	-42.38	≤ -13.00	Pass

Note: Spurious emissions within 9kHz - 30MHz were found more than 20dB below limit line.

5+10MHz Channel Bandwidth

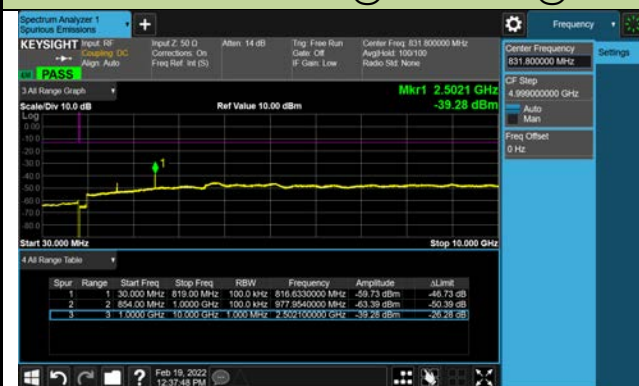
Lowest Channel



Middle Channel/1RB@0 and 1RB@49



Middle Channel/1RB@24 and 1RB@0

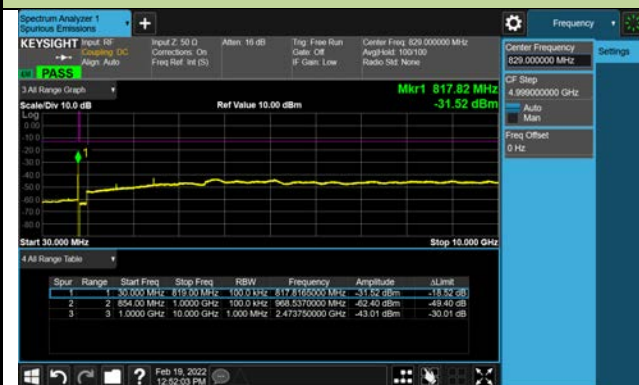


Highest Channel

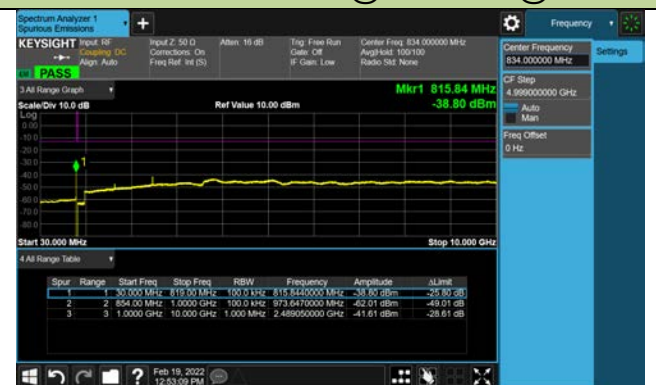


10+5MHz Channel Bandwidth

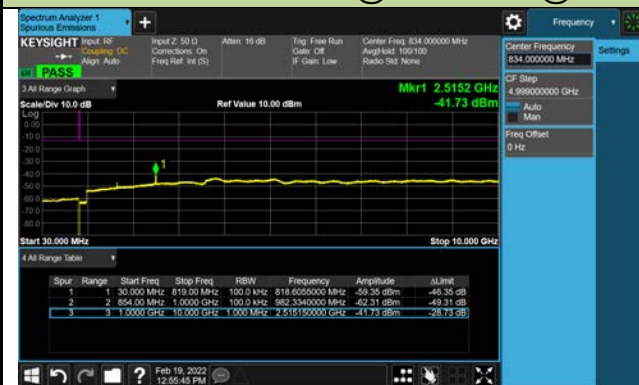
Lowest Channel



Middle Channel/1RB@0 and 1RB@24



Middle Channel/ 1RB@49 and 1RB@0



Highest Channel

