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Report No.:2110RSU053-U3 Report Version: V02 Issue Date: 12-23-2021

MEASUREMENT REPORT

FCC PART 90

FCC ID: ZMOFM101NA

Applicant: Fibocom Wireless Inc.

Application Type: Certification

Product: LTE Module

Model No.: FM101-NA

Brand Name: Fibocom

FCC Rule Part(s): Part 90 Subpart R

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

Test Date: November 05 ~ 18, 2021

Reviewed By:

Approved By: Loky Wu





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
2110RSU053-U3	Rev. 01	Initial Report	12-17-2021	Invalid
2110RSU053-U3	Rev. 02	Corrected the calibration date of equipment	12-23-2021	Valid



CONTENTS

De	scriptio	n Pa	ıge
1.	GENE	ERAL INFORMATION	5
	1.1.	Applicant	5
	1.2.	Manufacturer	5
	1.3.	Testing Facility	5
2.	PROE	DUCT INFORMATION	6
	2.1.	Product Information	6
	2.2.	Radio Specification under Test	6
	2.3.	Description of Available Antennas	7
	2.4.	Test Methodology	7
	2.5.	EMI Suppression Device(s)/Modifications	7
	2.6.	Configuration of Tested System	8
	2.7.	Test Environment Condition	8
3.	TEST	EQUIPMENT CALIBRATION DATE	9
4.	MEAS	SUREMENT UNCERTAINTY	. 10
5.	TEST	RESULT	11
	5.1.	Summary	. 11
	5.2.	Occupied Bandwidth Measurement	.12
	5.2.1.	Test Limit	.12
	5.2.2.	Test Procedure	.12
	5.2.3.	Test Setting	.12
	5.2.4.	Test Setup	.12
	5.2.5.	Test Result	.13
	5.3.	Frequency Stability Measurement	.14
	5.3.1.	Test Limit	.14
	5.3.2.	Test Procedure	. 14
	5.3.3.	Test Setting	. 14
	5.3.4.	Test Setup	. 15
	5.3.5.	Test Result	. 16
	5.4.	Equivalent Isotropically Radiated Power Measurement	. 17
	5.4.1.	Test Limit	. 17
	5.4.2.	Test Procedure	. 17
	5.4.3.	Test Setting	. 17
	5.4.4.	Test Setup	. 18
	5.4.5.	Test Result	.19



	5.5.	Band Edge Measurement	∠ ۱
	5.5.1.	Test Limit	21
	5.5.2.	Test Procedure	21
	5.5.3.	Test Setting	21
	5.5.4.	Test Setup	22
	5.5.5.	Test Result	23
	5.6.	Emisson Mask Measurement	25
	5.6.1.	Test Limit	25
	5.6.2.	Test Procedure	25
	5.6.3.	Test Setting	25
	5.6.4.	Test Setup	26
	5.6.5.	Test Result	27
	5.7.	Conducted Spurious Emission Measurement	30
	5.7.1.	Test Limit	30
	5.7.2.	Test Procedure	30
	5.7.3.	Test Setting	30
	5.7.4.	Test Setup	31
	5.7.5.	Test Result	32
	5.8.	Radiated Spurious Emission Measurement	35
	5.8.1.	Test Limit	35
	5.8.2.	Test Procedure	35
	5.8.3.	Test Setting	35
	5.8.4.	Test Setup	36
	5.8.5.	Test Result	37
6.	CONC	LUSION	38
App	endix <i>F</i>	A - Test Setup Photograph	39
App	endix E	3 - EUT Photograph	40



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

\boxtimes	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 Ac	creditations					
	A2LA: 3628.01		CNAS	S: L10551			
	FCC: CN1166		ISED	: CN0001			
) (CCI)	□R-20025	□G-20034	□C-20020	□T-20020		
	VCCI:	□R-20141	□G-20134	□C-20103	□T-20104		
	Test Site - MR	T Shenzhen Labo	oratory				
	Laboratory Loca	ation (Shenzhen)					
	1G, Building A, J	unxiangda Building,	Zhongshanyuan Roa	ad West, Nanshan Di	strict, Shenzhen, China		
	Laboratory Ac	creditations					
	A2LA: 3628.02 CNAS: L10551						
	FCC: CN1284		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 Ac	creditations					
	TAF: L3261-1907	725					
	FCC: 291082, TW3261 ISED: TW3261						



2. PRODUCT INFORMATION

2.1. Product Information

Product Name	LTE Module		
Model No.	FM101-NA		
Brand Name	Fibocom		
IMEI	Conducted Measurement: 867141050004112		
	Radiated Measurement: 867141050004062		
Operating Temperature	-30 ~ 75 °C		
Power Type	3.135 ~ 4.4Vdc, typical 3.8Vdc		
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, 41, 42, 43, 48, 66, 71		
HPUE Band	Band 41		
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 14: 788 ~ 798 MHz
FDD R _X Frequency Range	Band 14: 758 ~ 768 MHz

Note: For other features of this EUT, test reports will be issued separately.



2.3. Description of Available Antennas

Technology	Frequency Range (MHz)	Antenna Type	Max Peak Gain (dBi)
LTE Band 2	1850 ~ 1910		2.63
LTE Band 4	1710 ~ 1755		2.86
LTE Band 5	824 ~ 849		1.61
LTE Band 7	2500 ~ 2570		1.07
LTE Band 12	699 ~ 716		1.61
LTE Band 13	777 ~ 787		2.19
LTE Band 14	788 ~ 798		2.22
LTE Band 17	704 ~ 716		1.61
LTE Band 25	1850 ~ 1915		2.63
LTE Band 26	814 ~ 849	PIFA	1.93
LTE Band 30	2305 ~ 2315		0.67
LTE Band 41	2496 ~ 2690		2.49
LTE Band 42	3450 ~ 3550		-1.18
LTE Band 42	3550 ~ 3600		-1.18
LTE Band 43	3600 ~ 3700		-0.13
LTE Band 43	3700 ~ 3800		-0.71
LTE Band 48	3550 ~ 3700		-0.13
LTE Band 66	1710 ~ 1780		3.76
LTE Band 71	663 ~ 698		1.39

2.4. Test Methodology

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

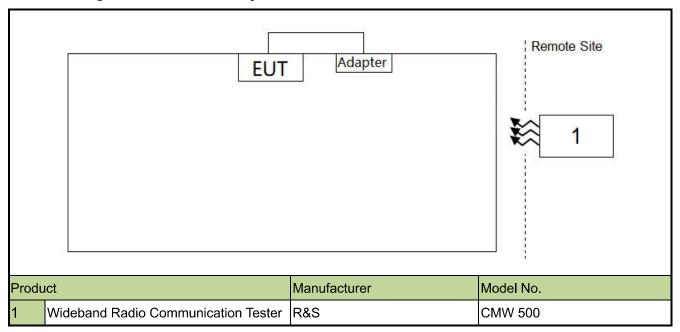
- ANSI C63.26:2015
- FCC CFR 47 Part 90
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP

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	2021/12/8	SIP-SR1
DC POWER MODULE	Keysight	N6743B	MRTSUE06905	/	1	SIP-SR1
DC POWER MODULE	Keysight	N6743B	MRTSUE06906	/	1	SIP-SR1
Low-Profile Modular Power System Mainframe	Keysight	N6700C	MRTSUE06907	/	1	SIP-SR1
Signal Analyzer	Keysight	N9021B	MRTSUE06915	1 year	2022/1/18	SIP-SR1
Temperature Chamber	BAOYT	BYG-80CL	MRTSUE06932	1 year	2022/3/16	SIP-SR1
Shielding Room	MIX-BEP	SIP-SR1	MRTSUE06948	1	1	SIP-SR1
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2022/1/4	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2022/9/16	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2021/11/14	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2022/11/12	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2022/8/5	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2022/4/29	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE06403	1 year	2022/6/28	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2021/12/14	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2022/1/6	WZ-AC1
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2022/1/14	WZ-AC1
Thermohygrometer	Yuhuaze	HTC-2	MRTSUE06184	1 year	2022/8/10	WZ-AC1

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 Emission

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 Emission

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%

Frequency Stability

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

76.2Hz



5. TEST RESULT

5.1. Summary

FCC Part	Test	Test	Test	Test	Reference
Section(s)	Description	Limit	Condition	Result	
2.1049	Occupied Bandwidth	N/A		Pass	Section 5.2
2.1055, 90.539(e)	Frequency Stability	<1.25 ppm		Pass	Section 5.3
90.542(a)(7)	Equivalent Radiated	<30 Watts Max ERP	Conducted	Pass	Section 5.4
	Power				
2.1051,	Band Edge	Refer to section 5.5		Pass	Section 5.5
90.543(e)(2)(3)	Bana Lago	110101 10 0001011 0.0		1 433	30011011010
2.1051, 90.210(n)	Emission Mask	Mask B		Pass	Section 5.6
2.1051,	Caurious Emission	< 43 + 10log10		Dana	Section 5.7
90.543(e)(3)	Spurious Emission	(P[watts])		Pass	Section 5.7
2.1053,	Spurious Emission	< 43 + 10log10	Radiated	Pass	Section5.8
90.543(e)(3), (f)	Spurious Emission	(P[watts])	Radiated	rass	Sections.8

Notes:

- 1) The analyzer plots shown in this report 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.
- 2) Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations the worst-case was found.
- 3) All supported modulation types were evaluated. The worst-case emission of modulation was selected. Therefore, the Frequency Stability, Band Edge, Radiated & Conducted Spurious Emission were presented worst case in the test report.



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 × 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	2021/11/05
Test Band	LTE Band 14		

Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)	
ODOK	700.0	5	4.48	
QPSK	793.0	10	8.95	
16QAM	793.0	5	4.46	
		10	8.95	





5.3. Frequency Stability Measurement

5.3.1.Test Limit

The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked

5.3.2.Test Procedure

ANSI C63.26-2015 - Section 5.6

5.3.3.Test Setting

Frequency Stability Under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

<u>Frequency Stability Under Voltage Variations:</u>

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the inputvoltage to specify extreme voltage variation (±15%) and end point, record the maximum frequency change.



5.3.4.Test Setup





5.3.5.Test Result

Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2021/11/09
Test Band	LTE Band 14		

Power (Vdc)	Temp. (°C)	Frequency Tolerance (ppm)
	- 30	0.0097
	- 20	-0.0091
	- 10	-0.0061
	0	-0.0067
3.8	+ 10	-0.0083
	+ 20	-0.0072
	+ 30	-0.0127
	+ 40	-0.0108
	+ 50	-0.0037
4.4	+ 20	0.0074
3.135	+ 20	-0.0090



5.4. Equivalent Isotropically Radiated Power Measurement

5.4.1.Test Limit

Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP.

5.4.2.Test Procedure

ANSI C63.26-2015 - Section 5.2

5.4.3.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:

ERP or EIRP = $P_{Meas} + G_{T}$

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)

ERP = EIRP -2.15



5.4.4.Test Setup





5.4.5.Test Result

Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2021/11/16
Test Band	LTE Band 14		

Channel	Frequency	Channel	RB	RB	Output	ERP	Limit
No.	(MHz)	Bandwidth	Size	Offset	Power	(dBm)	(dBm)
		(MHz)			(dBm)		
QPSK							
5305	760.5				22.76	22.83	< 44.77
5330	763.0	5	1	0	22.77	22.84	< 44.77
5355	765.5				22.77	22.84	< 44.77
5305	760.5				22.83	22.90	< 44.77
5330	763.0	5	1	12	22.92	22.99	< 44.77
5355	765.5				22.66	22.73	< 44.77
5305	760.5				22.73	22.80	< 44.77
5330	763.0	5	1	24	22.82	22.89	< 44.77
5355	765.5				22.57	22.64	< 44.77
5305	760.5				22.75	22.82	< 44.77
5330	763.0	5	25	0	22.81	22.88	< 44.77
5355	765.5				22.58	22.65	< 44.77
5330	763.0			0	22.76	22.83	< 44.77
5330	763.0	10	1	24	22.78	22.85	< 44.77
5330	763.0			49	22.67	22.74	< 44.77
5330	763.0	10	50	0	21.72	21.79	< 44.77
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							



Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
16QAM							
5305	760.5				22.00	22.07	< 44.77
5330	763.0	5	1	0	21.20	21.27	< 44.77
5355	765.5				21.82	21.89	< 44.77
5305	760.5				21.62	21.69	< 44.77
5330	763.0	5	1	12	22.20	22.27	< 44.77
5355	765.5				21.82	21.89	< 44.77
5305	760.5				21.44	21.51	< 44.77
5330	763.0	5	1	24	22.08	22.15	< 44.77
5355	765.5				21.71	21.78	< 44.77
5305	760.5				21.45	21.52	< 44.77
5330	763.0	5	25	0	22.08	22.15	< 44.77
5355	765.5				21.72	21.79	< 44.77
5330	763.0			0	21.85	21.92	< 44.77
5330	763.0	10	1	24	21.92	21.99	< 44.77
5330	763.0			49	21.80	21.87	< 44.77
5330	763.0	10	50	0	20.78	20.85	< 44.77
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							



5.5. Band Edge Measurement

5.5.1.Test Limit

For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log
- (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (2) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, byat least 43 + 10 log (P) dB.

5.5.2.Test Procedure

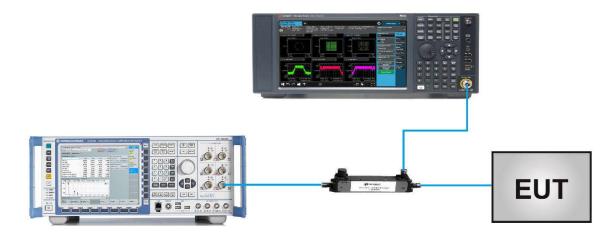
ANSI C63.26-2015 - Section5.7

5.5.3.Test Setting

- 1. Set the analyzer frequency to low or high channel
- 2. RBW ≥ 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 ≥ 3*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.



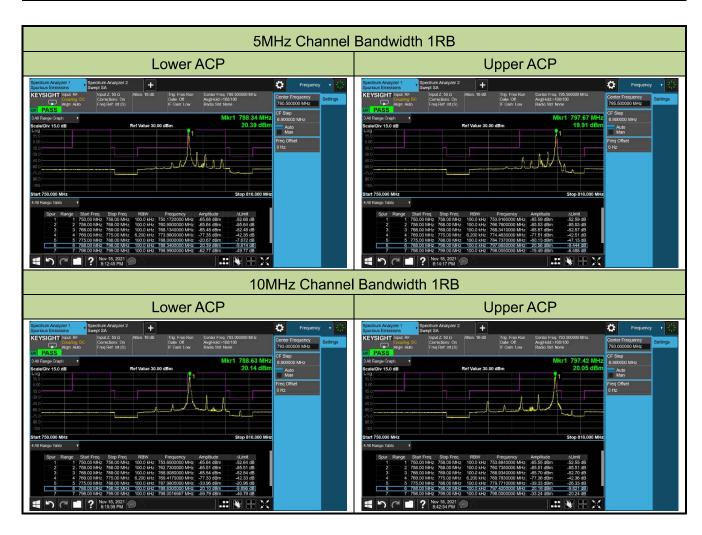
5.5.4.Test Setup



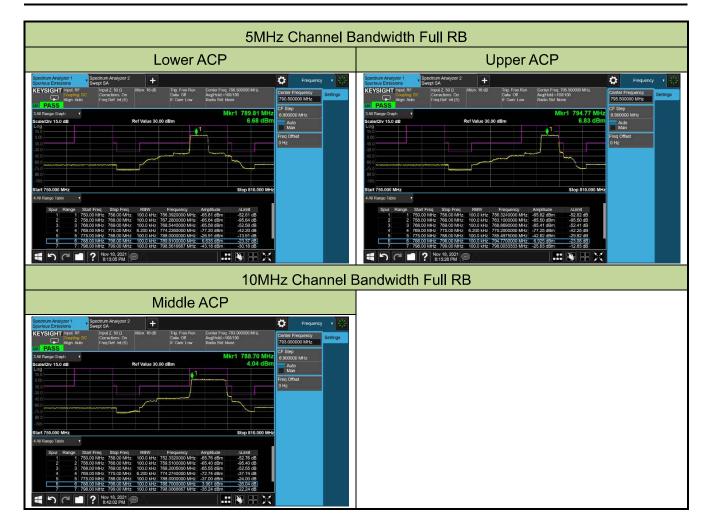


5.5.5.Test Result

Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2021/11/18
Test Band	LTE Band 14_QPSK		_









5.6. Emisson Mask Measurement

5.6.1.Test Limit

Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

- (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.
- (2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.
- (3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

5.6.2.Test Procedure

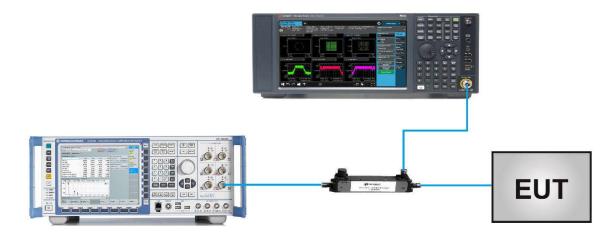
ANSI C63.26-2015 - Section 5.7

5.6.3.Test Setting

- 1. Set the analyzer frequency to low or high channel
- 2. RBW ≥ 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 ≥ 3*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.



5.6.4.Test Setup





5.6.5.Test Result

Product	LTE Module	Test Site	SIP-SR1
Test Engineer	Candy Luo	Test Date	2021/11/18
Test Band	LTE Band 14		





