FCC RF Test Report

APPLICANT	**: Quectel Wireless Solutions Co., Ltd.**
EQUIPMENT	**: LTE-A Cat 12 M.2 Module**
BRAND NAME	**: Quectel**
MODEL NAME	**: EM12-G**
FCC ID	**: XMR201901EM12G**
STANDARD	**: FCC 47 CFR Part 2, 90(R)**
CLASSIFICATION	**: PCS Licensed Transmitter (PCB)**

The product was received on Nov. 29, 2018 and completely tested on Jan. 18, 2019. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

James Huang

NVLAP® TESTING NVLAP LAB CODE 600155-0

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone,

Jiangsu Province 215335, China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG8N2911D	Rev. 01	Initial issue of report	Jan. 30, 2019

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting only	PASS	-
	§90.542 (a)(7)	Effective Radiated Power	ERP < 3Watt	PASS	-
3.5	§2.1049	Occupied Bandwidth	Reporting only	PASS	-
3.6	§2.1053 §90.543 (e)(2)(3)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.7	§2.1051 §90.210(n)	Emission Mask	Mask B	PASS	-
3.8	§2.1053 §90.543 (e)(3)	Conducted Spurious Emission	< $43+10\log_{10}$(P[Watts])	PASS	-
3.9	§2.1055 §90.539 (e)	Frequency Stability Temperature & Voltage	< ±1.25 ppm	PASS	-
4.4	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 26.34 dB at 1586.000 MHz

1 General Description

1.1 Applicant

Quectel Wireless Solutions Co., Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China

1.2 Manufacturer

Quectel Wireless Solutions Co., Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	LTE-A Cat 12 M.2 Module
Brand Name	Quectel
Model Name	EM12-G
FCC ID	XMR201901EM12G
Tx Frequency	LTE Band 14: 790.5 MHz ~ 795.5 MHz
Rx Frequency	LTE Band 14: 760.5 MHz ~ 765.5 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 14: 23.10 dBm
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM(Downlink only)
IMEI Code	Conducted: 869710030006559 Radiation: 869710030006542
HW Version	R1.0
SW Version	EM12GPAR01A08M4G
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Maximum ERP Power, Frequency Tolerance, and Emission Designator

LTE Band 14		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	790.5~795.5	4M52G7D	-	0.1726	4M49W7D	-	0.1585
10	793	9M07G7D	0.0044	0.1754	8M99W7D	-	0.1419

LTE Band 14		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	790.5~795.5	4M50W7D	-	0.1596
10	793	9M03W7D	-	0.1400

1.5 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0).

Test Site	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China TEL : 86-512-57900158 FAX : 86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC designation No.**	**FCC Test Firm Registration No.**
	TH01-KS 03CH06-KS	CN5013	630927

1.6 Applied Standards

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

- 47 CFR Part 2, Part 90(R)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

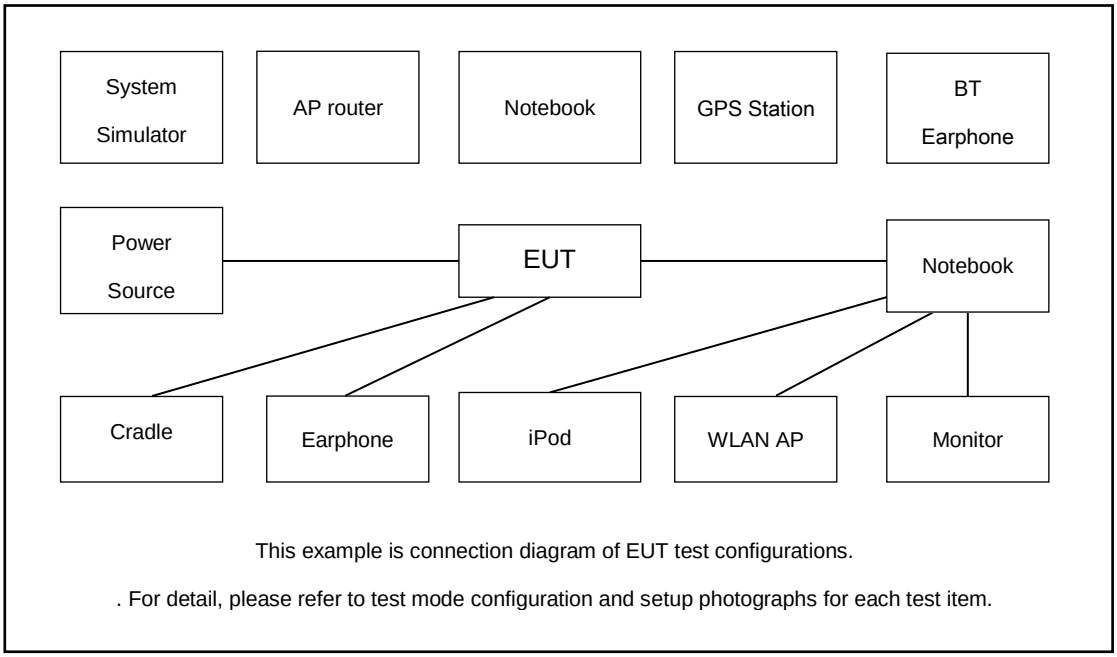
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	14	-	-	V	-	-	-	V	V	V	V	V	V	V	V	V
	14	-	-		V	-	-	V	V	V	V	V	V		V	
26dB and 99% Bandwidth	14	-	-	V		-	-	V	V	V			V	V	V	V
	14	-	-		V	-	-	V	V	V			V		V	
Conducted Band Edge	14	-	-	V		-	-	V	V	V	V		V	V		V
	14	-	-		V	-	-	V	V	V	V		V		V	
Emission Mask	14	-	-	V		-	-	V	V	V	V		V	V	V	V
	14	-	-		V	-	-	V	V	V	V		V		V	
Conducted Spurious Emission	14	-	-	V		-	-	V	V	V	V			V	V	V
	14	-	-		V	-	-	V	V	V	V				V	
Frequency Stability	14	-	-		V	-	-	V					V		V	
E.R.P	14	-	-	V		-	-	V	V	V	V			V	V	V
	14	-	-		V	-	-	V	V	V	V				V	
Radiated Spurious Emission	14	-	-	V		-	-	V			V			V	V	V
	14	-	-		V	-	-	V			V				V	
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.															

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	Test jig	N/A	N/A	N/A	N/A	N/A
4.	WWAN Antenna	N/A	N/A	N/A	N/A	N/A
5.	GNSS Antenna	N/A	N/A	N/A	N/A	N/A
6.	Adapter	N/A	N/A	N/A	Unshielded,1.2m	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 4.1 dB.

Example :

Offset(dB) = RF cable loss(dB).

= 4.1 (dB)

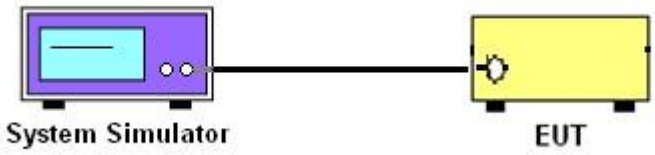
3 Conducted Test Items

3.1 Measuring Instruments

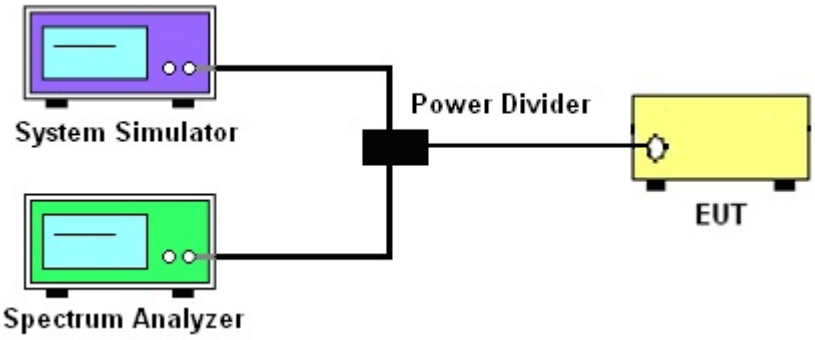
See list of measuring instruments of this test report.

3.2 Test Setup

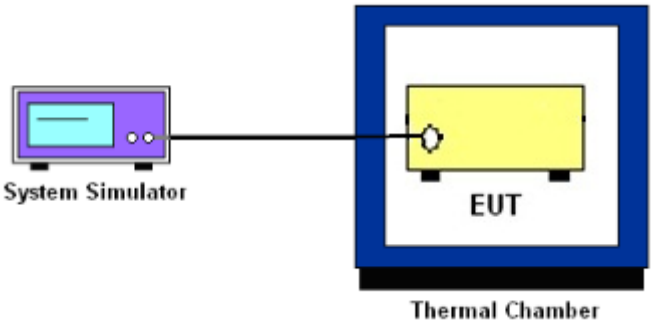
3.2.1 Conducted Output Power



3.2.2 Occupied / 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP

3.4.1 Description of the Conducted Output Power Measurement and ERP Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14.

According to KDB 412172 D01 Power Approach,

EIRP = $P_T + G_T – L_C$, ERP = EIRP -2.15, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.5 Occupied Bandwidth

3.5.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.

3.6 Conducted Band Edge Measurement

3.6.1 Description of Conducted Band Edge Measurement

For operations in the 758-768 MHz and the 788-798 MHz bands

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.

(2) 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.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

3.6.2 Test Procedures

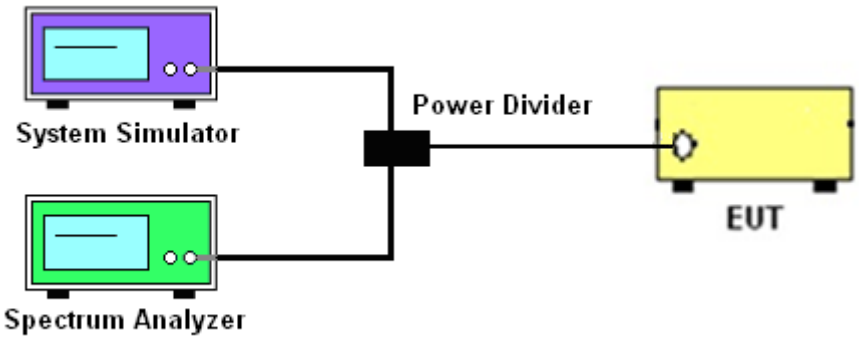
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. Set spectrum analyzer with RMS detector.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
4. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

3.7 Emission Mask

3.7.1 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The power of the modulated signal was measured on a spectrum analyzer using an RMS and 10 second sweep time in order to maximize the level.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.7.2 Test Setup



3.8 Conducted Spurious Emission Measurement

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30MHz up to a frequency including its 10^{th} harmonic.

3.8.2 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's, for under 1GHz RBW = 100kHz, VBW = 300kHz and for above 1GHz RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

3.9 Frequency Stability Measurement

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±1.25 ppm of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. 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.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the base station.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

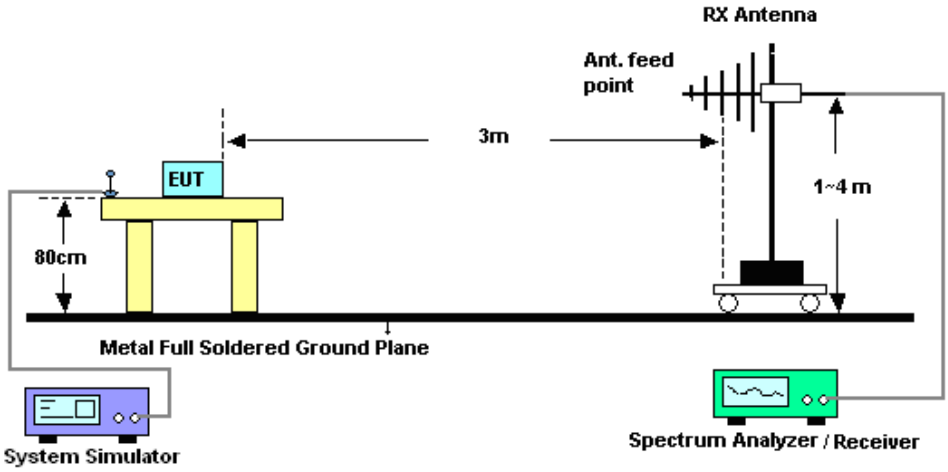
4 Radiated Test Items

4.1 Measuring Instruments

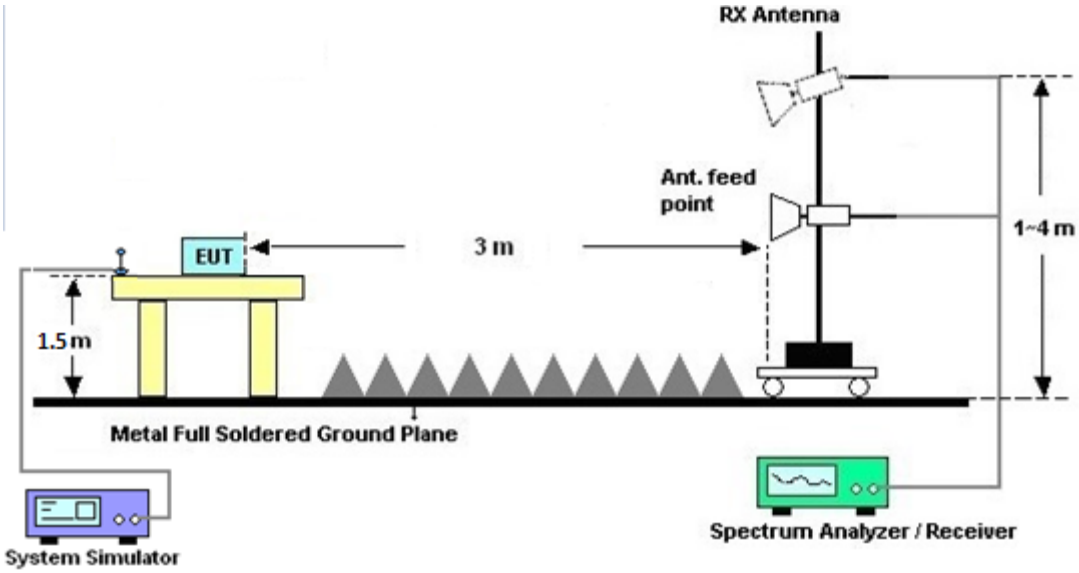
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26..
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5.3 Measurement of spurious emissions using substitution method.
2. 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.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
12. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
    ERP (dBm) = EIRP – 2.15

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 07, 2018	Jan. 16, 2019~ Jan. 18, 2019	Aug. 06, 2019	Conducted (TH01-KS)
Thermal Chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jun. 27, 2018	Jan. 16, 2019~ Jan. 18, 2019	Jun. 26, 2019	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz-44GHz	Jun. 25, 2018	Dec. 12, 2018	Jun. 24, 2019	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Jan. 29, 2018	Dec. 12, 2018	Jan. 28, 2019	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 20, 2018	Dec. 12, 2018	Oct. 19, 2019	Radiation (03CH06-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Dec. 12, 2018	Feb. 06, 2019	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2018	Dec. 12, 2018	Aug. 05, 2019	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35 -HG	2014749	18~40GHz	Feb. 08, 2018	Dec. 12, 2018	Feb. 07, 2019	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Apr. 17, 2018	Dec. 12, 2018	Apr. 16, 2019	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 18, 2018	Dec. 12, 2018	Apr. 17, 2019	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 12, 2018	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 12, 2018	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 12, 2018	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.5 dB**

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.0 dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 14 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.95	21.03	21.11
5	1	12		23.03	22.95	23.03
5	1	24		22.86	22.90	23.00
5	12	0		22.09	22.97	22.86
5	12	7		22.10	21.97	21.95
5	12	13		22.03	22.00	21.98
5	25	0		22.00	22.01	21.90
5	1	0	16-QAM	22.36	22.00	21.95
5	1	12		22.31	22.66	22.61
5	1	24		22.24	22.59	22.45
5	12	0		21.33	22.43	22.55
5	12	7		21.11	21.16	21.12
5	12	13		21.10	21.12	21.08
5	25	0		21.01	20.98	21.02
5	1	0	64QAM	22.23	21.06	21.09
5	1	12		22.10	22.69	22.20
5	1	24		22.48	22.04	22.05
5	12	0		21.15	22.42	21.99
5	12	7		21.11	21.10	21.02
5	12	13		21.00	21.11	21.09
5	25	0		21.03	20.87	21.05

LTE Band 14 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		23.10	
10	1	25			23.05	
10	1	49			22.92	
10	25	0			22.14	
10	25	12			22.02	
10	25	25			21.94	
10	50	0			21.99	
10	1	0	16-QAM		22.18	
10	1	25			22.13	
10	1	49			21.98	
10	25	0			21.18	
10	25	12			21.14	
10	25	25			21.06	
10	50	0			21.06	
10	1	0	64QAM		22.05	
10	1	25			22.12	
10	1	49			21.82	
10	25	0			21.10	
10	25	12			21.06	
10	25	25			20.99	
10	50	0			21.12	

ERP

LTE Band 14 (G_T - L_C = 1.49 dBi) QPSK						
Bandwidth	5M			10M		
Channel	23305	23330	23355		23330	
	(Low)	(Mid)	(High)		(Mid)	
Frequency (MHz)	790.5	793	795.5		793	
Conducted Power (dBm)	23.03	22.95	23.03		23.10	
Conducted Power (Watts)	0.2009	0.1972	0.2009		0.2042	
ERP(dBm)	22.37	22.29	22.37		22.44	
ERP(Watts)	0.1726	0.1694	0.1726		0.1754	

LTE Band 14 (G_T - L_C = 1.49 dBi) 16QAM						
Bandwidth	5M			10M		
Channel	23305	23330	23355		23330	
	(Low)	(Mid)	(High)		(Mid)	
Frequency (MHz)	790.5	793	795.5		793	
Conducted Power (dBm)	22.31	22.66	22.61		22.18	
Conducted Power (Watts)	0.1702	0.1845	0.1824		0.1652	
ERP(dBm)	21.65	22.00	21.95		21.52	
ERP(Watts)	0.1462	0.1585	0.1567		0.1419	

LTE Band 14 (G_T - L_C = 1.49 dBi) 64QAM						
Bandwidth	5M				10M	
Channel	23305	23330	23355		23330	
	(Low)	(Mid)	(High)		(Mid)	
Frequency (MHz)	790.5	793	795.5		793	
Conducted Power (dBm)	22.10	22.69	22.20		22.12	
Conducted Power (Watts)	0.1622	0.1858	0.1660		0.1629	
ERP(dBm)	21.44	22.03	21.54		21.46	
ERP(Watts)	0.1393	0.1596	0.1426		0.1400	

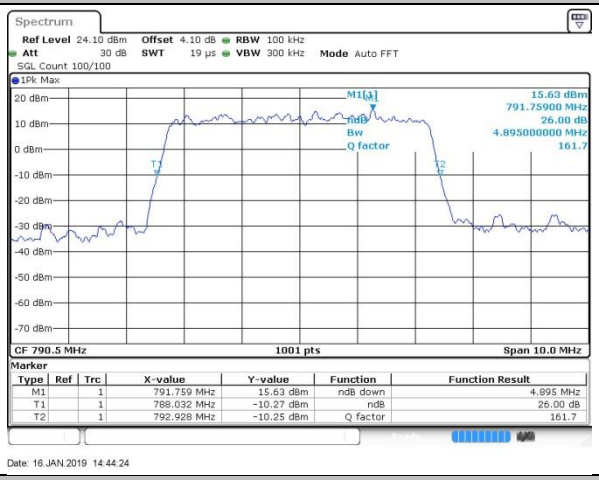
26dB Bandwidth

Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.895	4.855	-	-	-	-	-	-
Middle CH	-	-	-	-	4.935	4.875	9.69	9.73	-	-	-	-
Highest CH	-	-	-	-	4.875	4.855	-	-	-	-	-	-

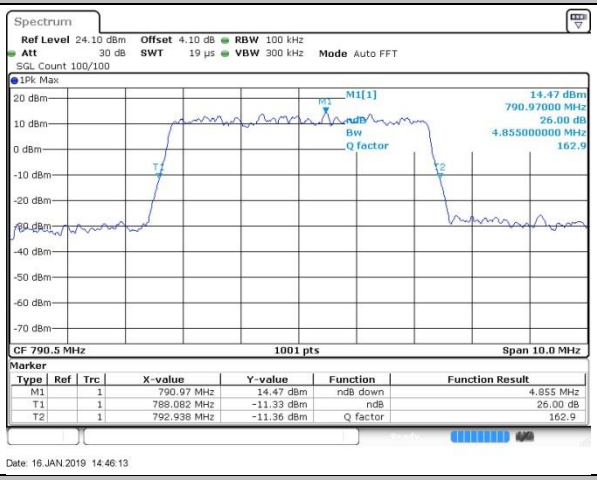
BW	5MHz	10MHz
Mod.	64QAM	64QAM
Lowest CH	4.945	-
Middle CH	4.825	9.81
Highest CH	4.905	-

LTE Band 14

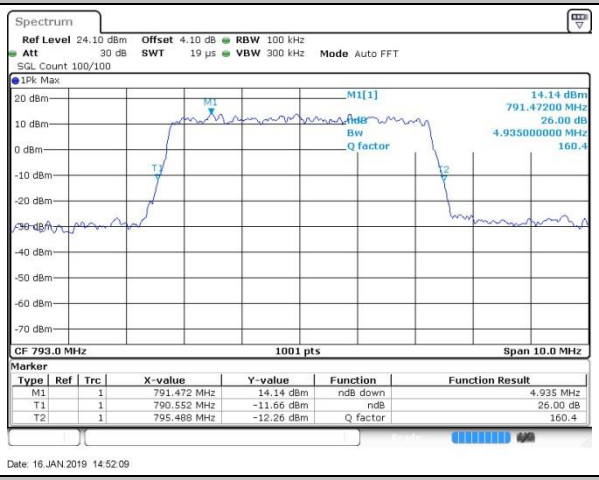
Lowest Channel / 5MHz / QPSK



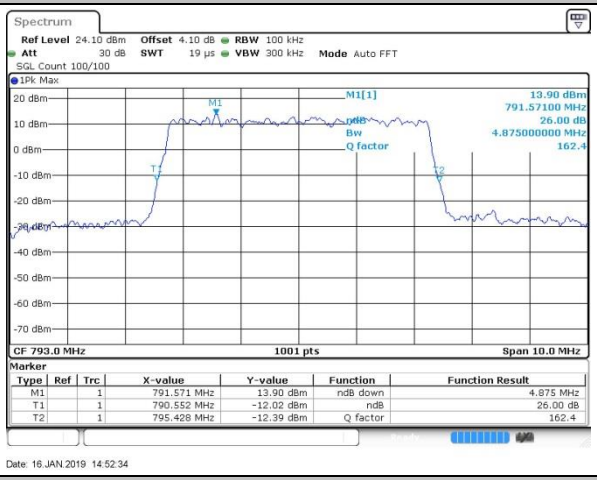
Lowest Channel / 5MHz / 16QAM



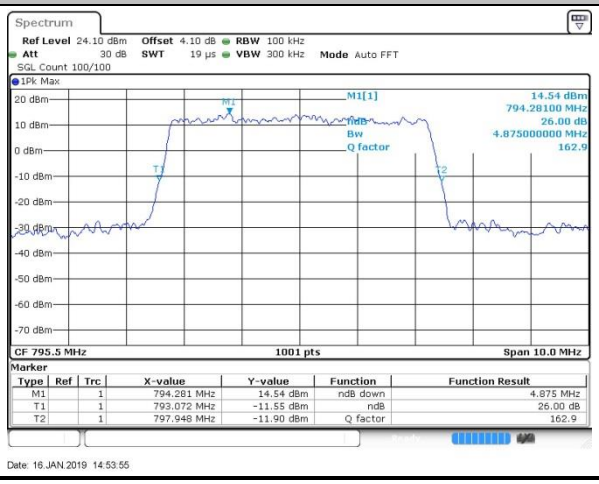
Middle Channel / 5MHz / QPSK



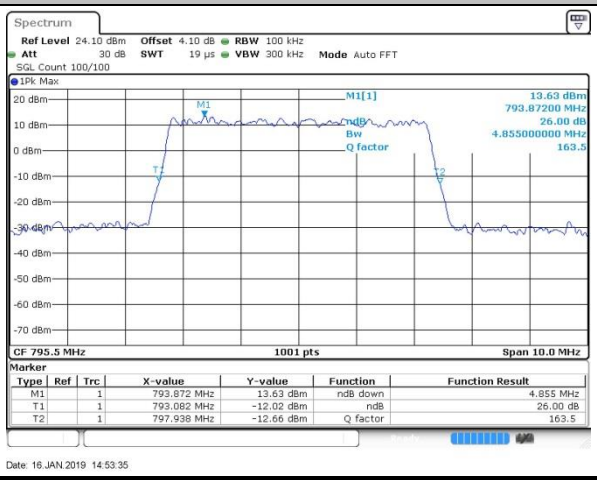
Middle Channel / 5MHz / 16QAM

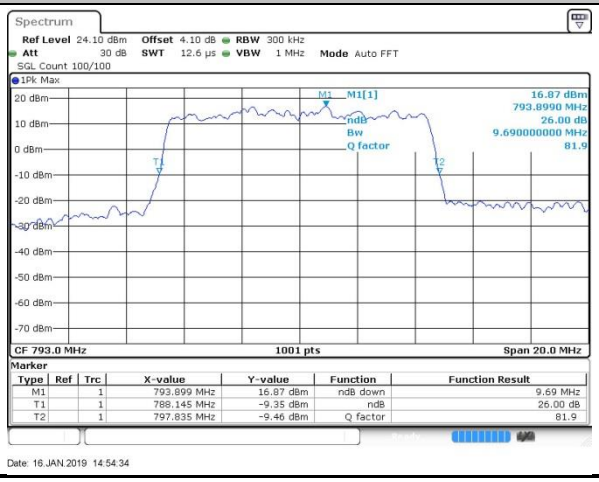
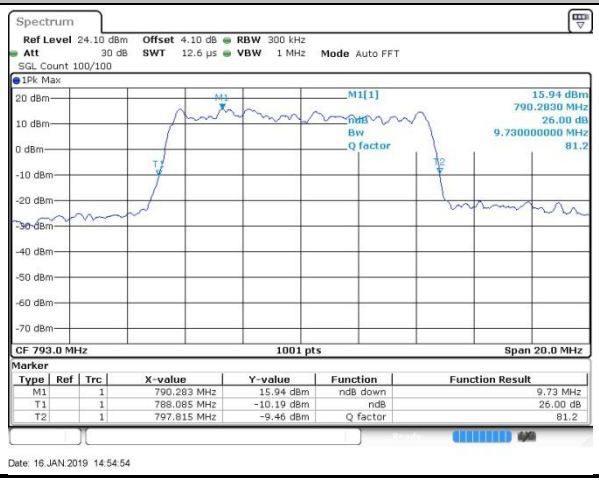


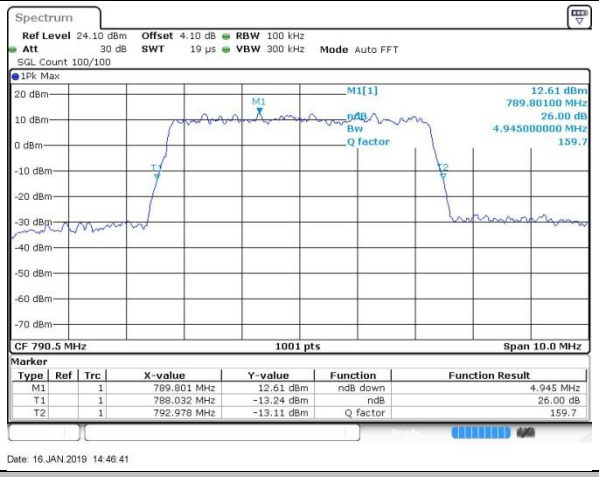
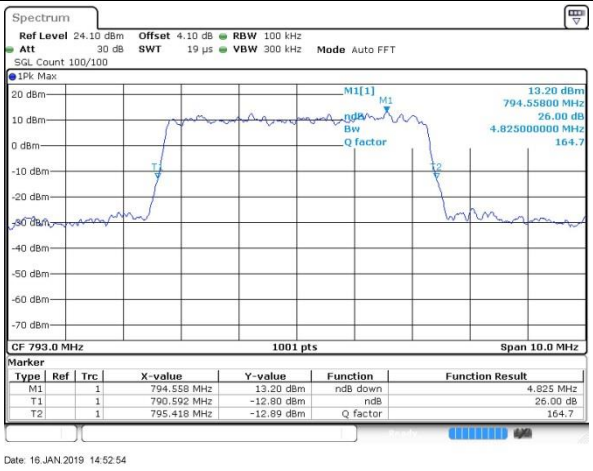
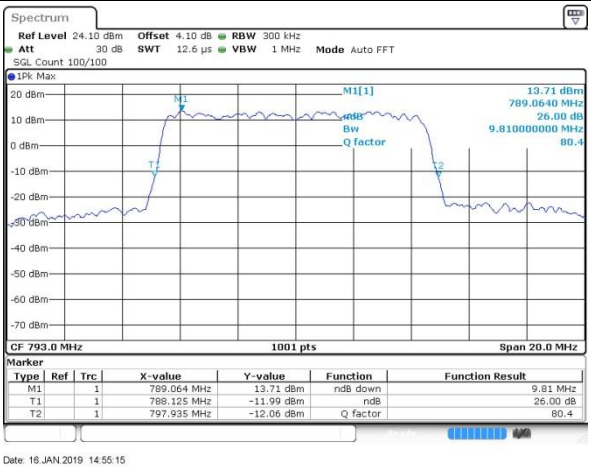
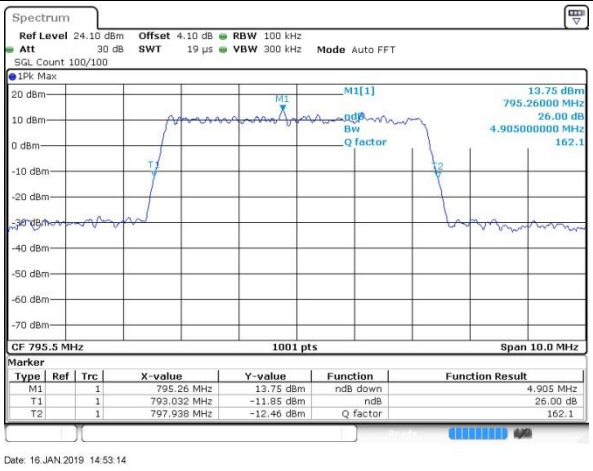
Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM



LTE Band 14	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

LTE Band 14	
Lowest Channel / 5MHz / 64QAM	**Lowest Channel / 10MHz / 64QAM**
	
Middle Channel / 5MHz / 64QAM	**Middle Channel /10MHz / 64QAM**
	
Highest Channel /5MHz / 64QAM	**Highest Channel /10MHz / 64QAM**
	

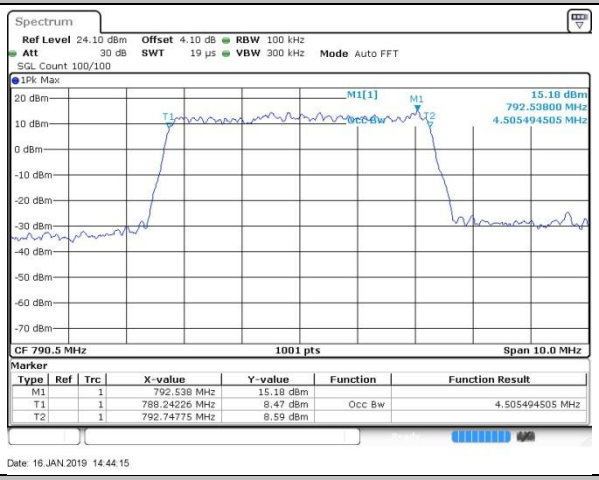
Occupied Bandwidth

Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	4.48	9.07	8.99	-	-	-	-
Highest CH	-	-	-	-	4.52	4.49	-	-	-	-	-	-

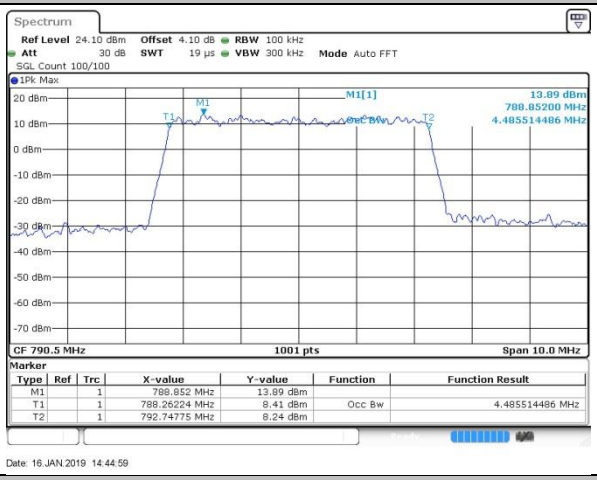
BW	5MHz	10MHz
Mod.	64QAM	64QAM
Lowest CH	4.50	-
Middle CH	4.49	9.03
Highest CH	4.50	-

LTE Band 14

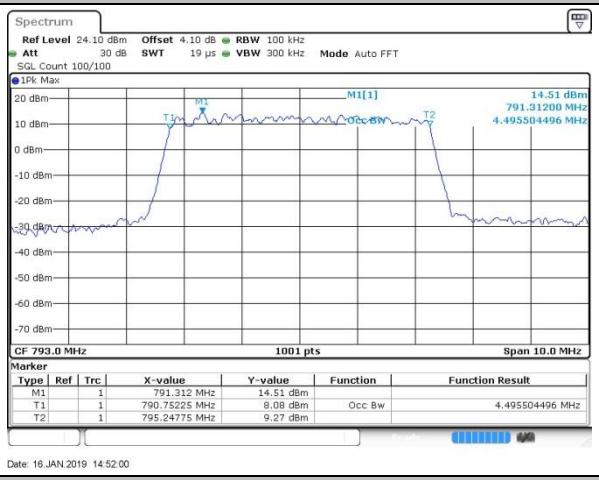
Lowest Channel / 5MHz / QPSK



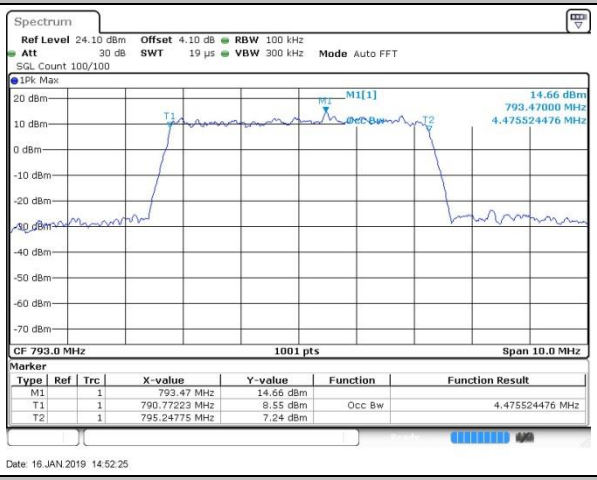
Lowest Channel / 5MHz / 16QAM



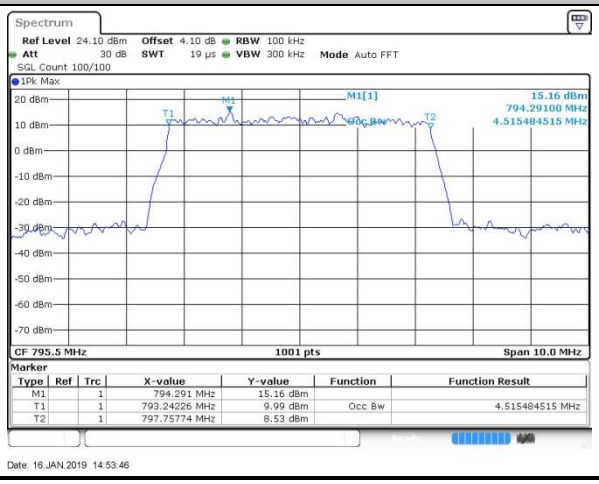
Middle Channel / 5MHz / QPSK



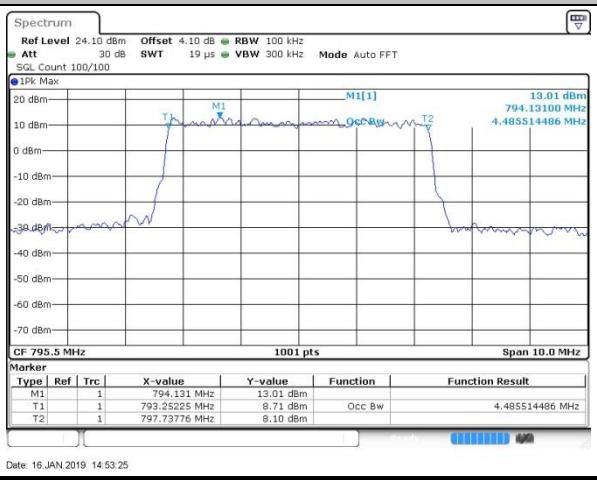
Middle Channel / 5MHz / 16QAM

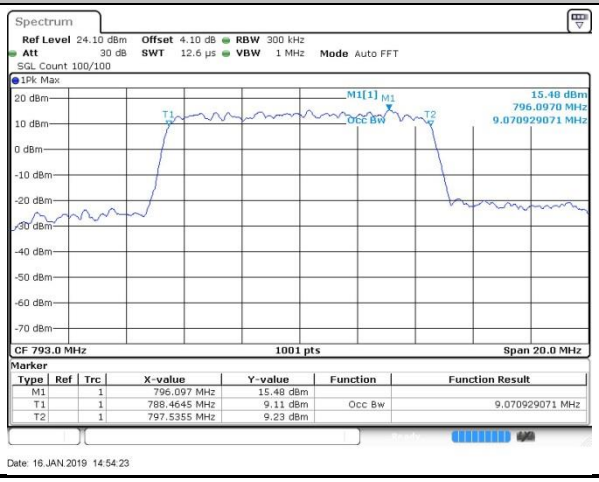
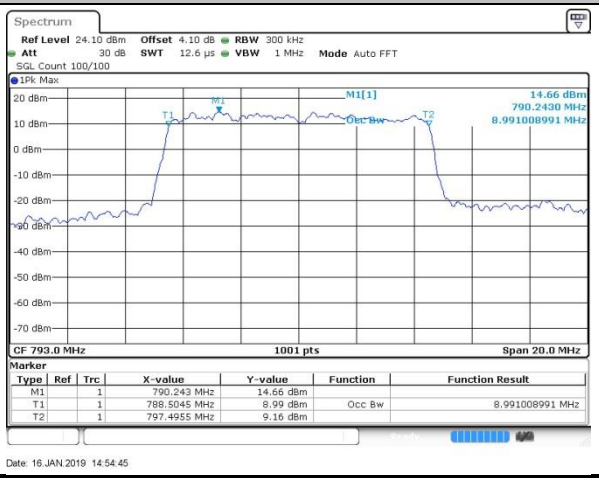


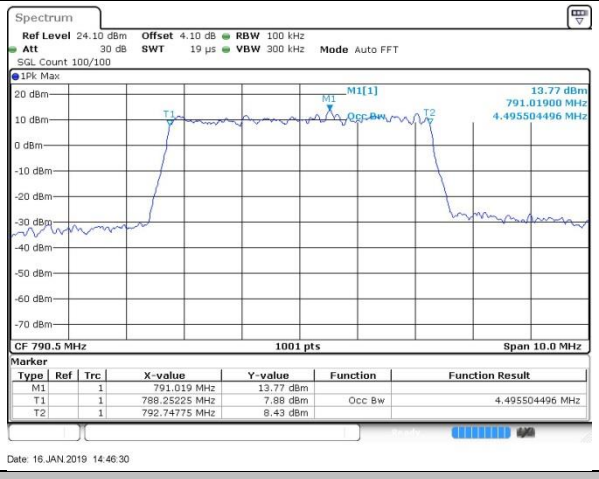
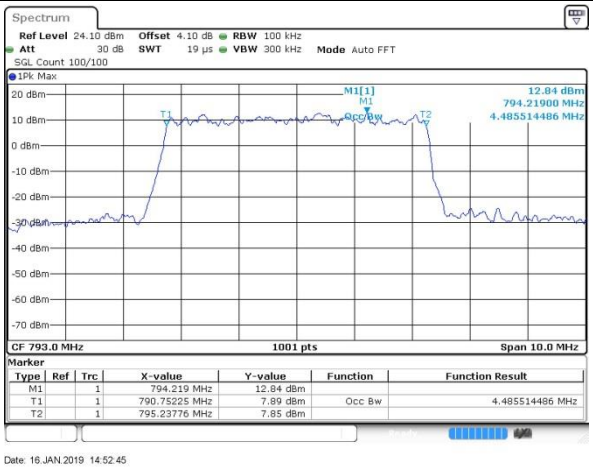
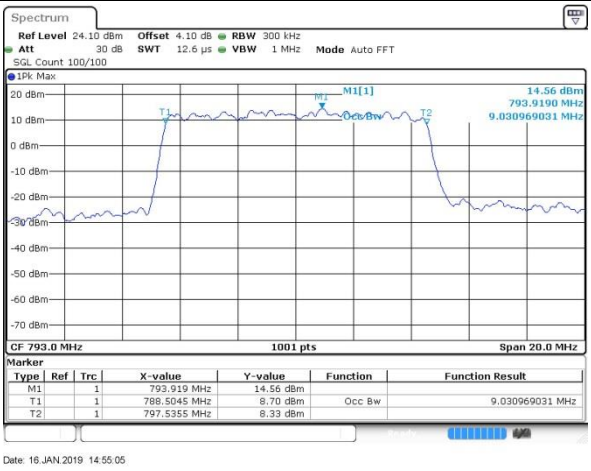
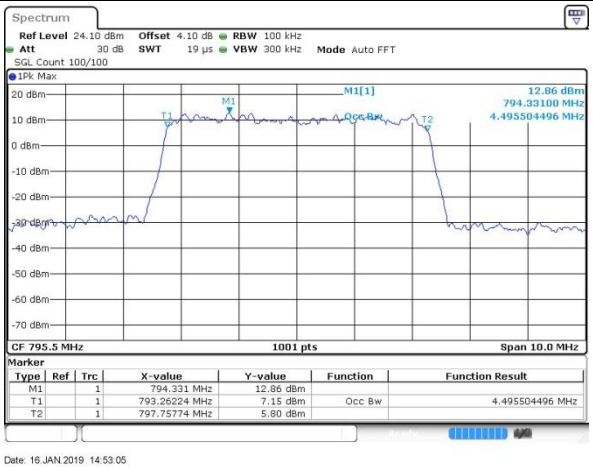
Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM



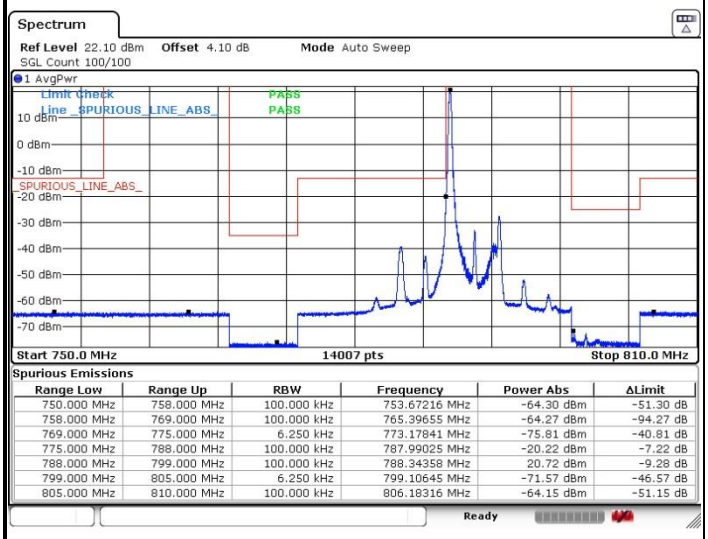
LTE Band 14	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

LTE Band 14	
Lowest Channel / 5MHz / 64QAM	**Lowest Channel / 10MHz / 64QAM**
	
Middle Channel / 5MHz / 64QAM	**Middle Channel /10MHz / 64QAM**
	
Highest Channel /5MHz / 64QAM	**Highest Channel /10MHz / 64QAM**
	

Conducted Band Edge

LTE Band 14 / 5MHz / QPSK

Lowest Band Edge / 1 RB

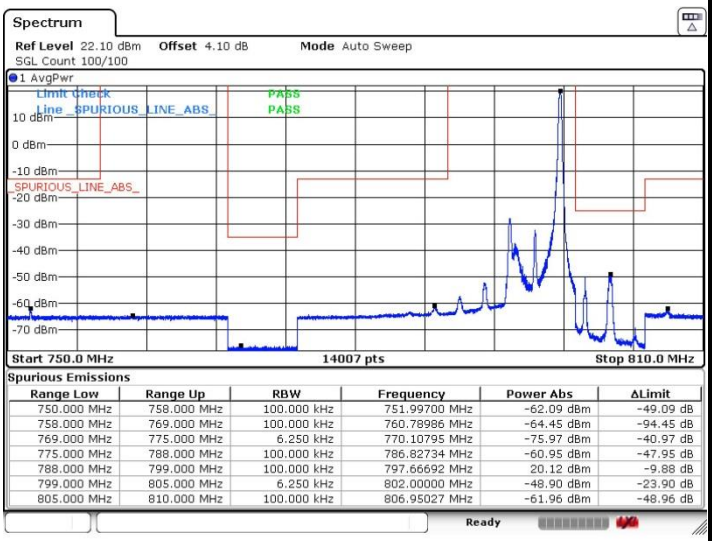


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	753.67216 MHz	-64.30 dBm	-51.30 dB
758.000 MHz	769.000 MHz	100.000 kHz	765.39655 MHz	-64.27 dBm	-94.27 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.17841 MHz	-75.81 dBm	-40.81 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99025 MHz	-20.22 dBm	-7.22 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.34358 MHz	20.72 dBm	-9.28 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.10645 MHz	-71.57 dBm	-46.57 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.18316 MHz	-64.15 dBm	-51.15 dB

Date: 16.JAN.2019 15:57:03

Highest Band Edge / 1 RB

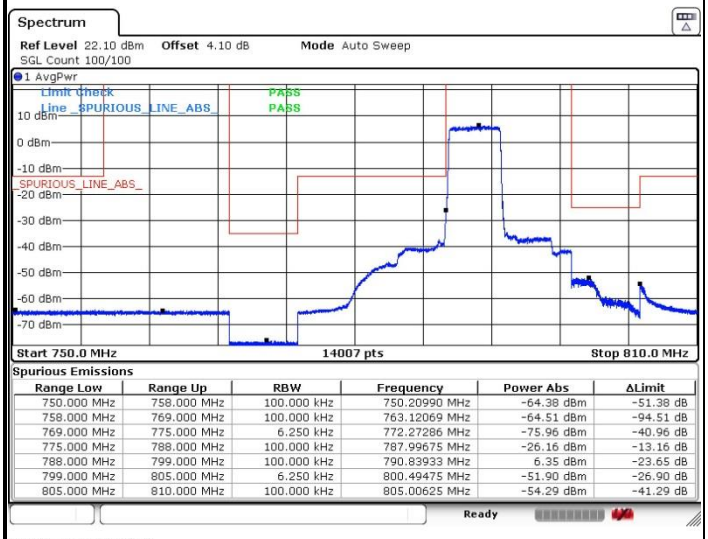


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.99700 MHz	-62.09 dBm	-49.09 dB
758.000 MHz	769.000 MHz	100.000 kHz	760.78986 MHz	-64.45 dBm	-94.45 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.10795 MHz	-75.97 dBm	-40.97 dB
775.000 MHz	788.000 MHz	100.000 kHz	786.82734 MHz	-60.95 dBm	-47.95 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.66692 MHz	20.12 dBm	-9.88 dB
799.000 MHz	805.000 MHz	6.250 kHz	802.00000 MHz	-48.90 dBm	-23.90 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.95027 MHz	-61.96 dBm	-48.96 dB

Date: 16.JAN.2019 16:04:19

Lowest Band Edge / Full RB

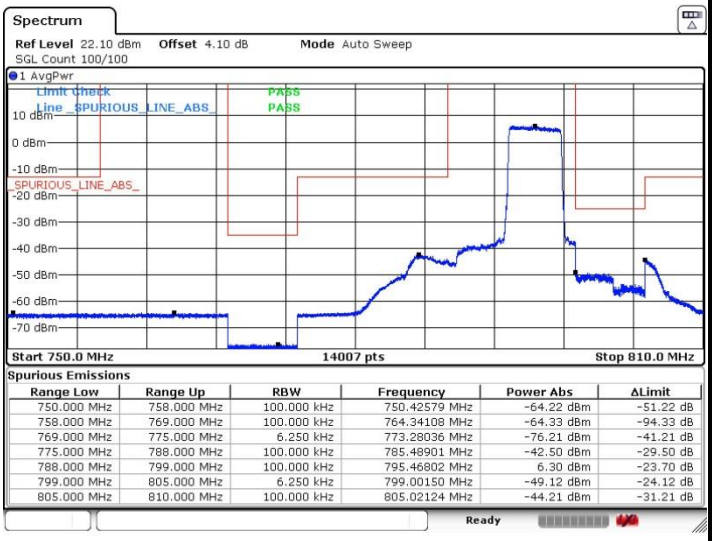


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	750.20990 MHz	-64.38 dBm	-51.38 dB
758.000 MHz	769.000 MHz	100.000 kHz	763.12069 MHz	-64.51 dBm	-94.51 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.27286 MHz	-75.96 dBm	-40.96 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99675 MHz	-26.16 dBm	-13.16 dB
788.000 MHz	799.000 MHz	100.000 kHz	790.83933 MHz	6.35 dBm	-23.65 dB
799.000 MHz	805.000 MHz	6.250 kHz	800.49475 MHz	-51.90 dBm	-26.90 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.00625 MHz	-54.29 dBm	-41.29 dB

Date: 16.JAN.2019 16:00:11

Highest Band Edge / Full RB



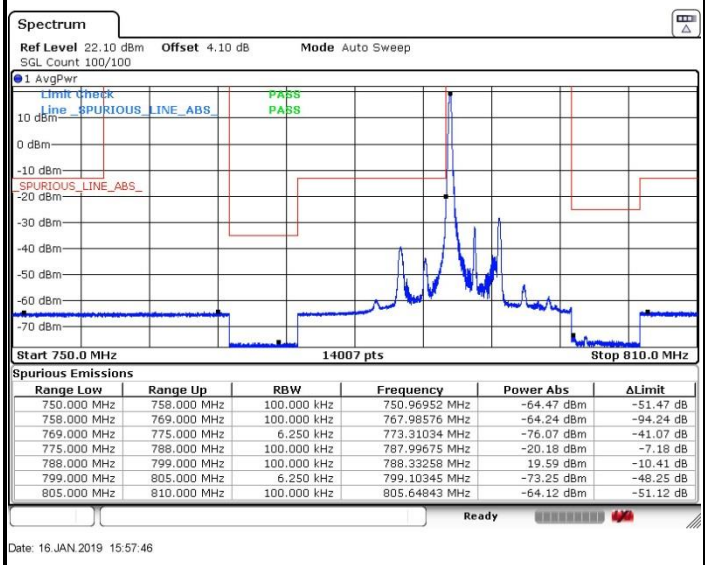
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	750.42579 MHz	-64.22 dBm	-51.22 dB
758.000 MHz	769.000 MHz	100.000 kHz	764.34108 MHz	-64.33 dBm	-94.33 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.28036 MHz	-76.21 dBm	-41.21 dB
775.000 MHz	788.000 MHz	100.000 kHz	785.48901 MHz	-42.50 dBm	-29.50 dB
788.000 MHz	799.000 MHz	100.000 kHz	795.46802 MHz	6.30 dBm	-23.70 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.00150 MHz	-49.12 dBm	-24.12 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.02124 MHz	-44.21 dBm	-31.21 dB

Date: 16.JAN.2019 16:00:51

LTE Band 14 / 5MHz / 16QAM

Lowest Band Edge /1 RB

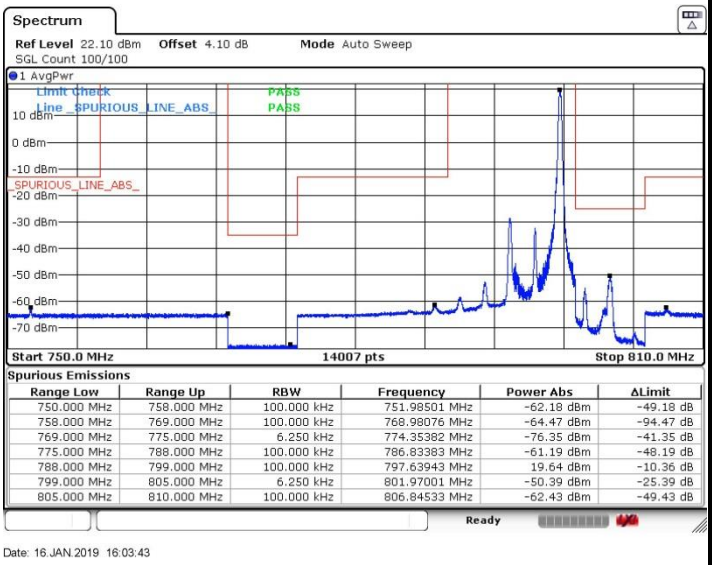


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	750.96952 MHz	-64.47 dBm	-51.47 dB
758.000 MHz	769.000 MHz	100.000 kHz	767.98576 MHz	-64.24 dBm	-94.24 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.31034 MHz	-76.07 dBm	-41.07 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99675 MHz	-20.18 dBm	-7.18 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.33258 MHz	19.59 dBm	-10.41 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.10345 MHz	-73.25 dBm	-48.25 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.64843 MHz	-64.12 dBm	-51.12 dB

Date: 16.JAN.2019 15:57:46

Highest Band Edge / 1 RB

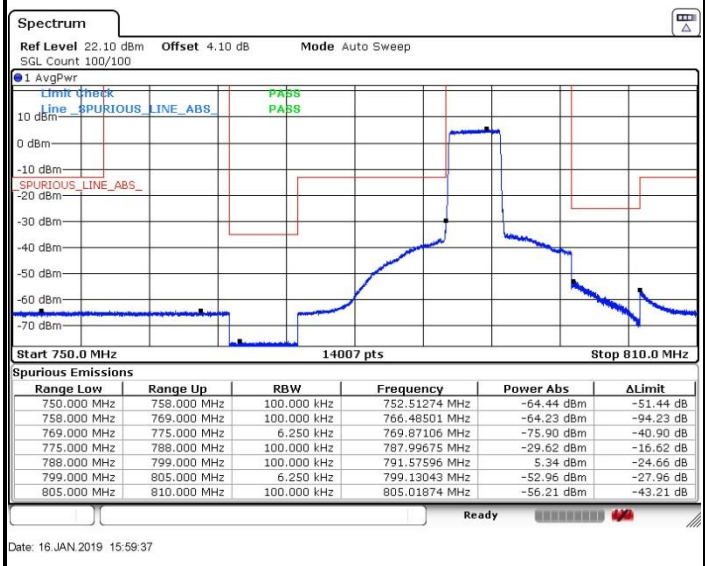


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.98501 MHz	-62.18 dBm	-49.18 dB
758.000 MHz	769.000 MHz	100.000 kHz	768.98076 MHz	-64.47 dBm	-94.47 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.35382 MHz	-76.35 dBm	-41.35 dB
775.000 MHz	788.000 MHz	100.000 kHz	786.83383 MHz	-61.19 dBm	-48.19 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.63943 MHz	19.64 dBm	-10.36 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.97001 MHz	-50.39 dBm	-25.39 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.84533 MHz	-62.43 dBm	-49.43 dB

Date: 16.JAN.2019 16:03:43

Lowest Band Edge / Full RB

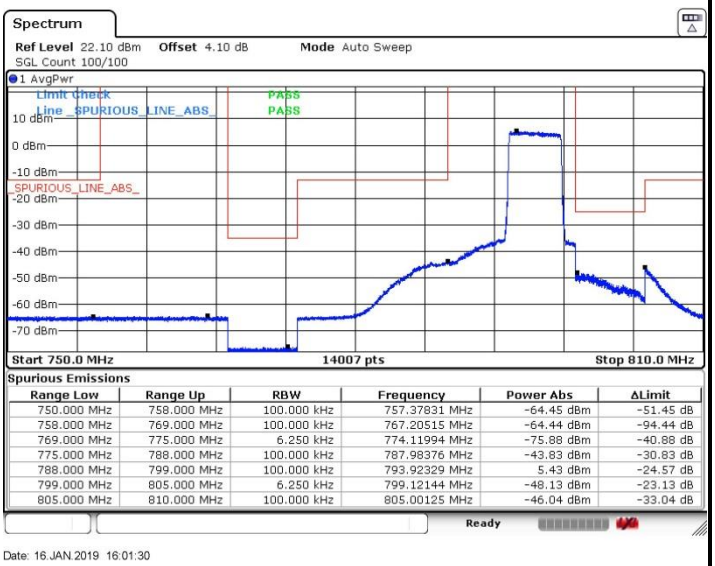


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	752.51274 MHz	-64.44 dBm	-51.44 dB
758.000 MHz	769.000 MHz	100.000 kHz	766.48501 MHz	-64.23 dBm	-94.23 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.87106 MHz	-75.90 dBm	-40.90 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99675 MHz	-29.62 dBm	-16.62 dB
788.000 MHz	799.000 MHz	100.000 kHz	791.57596 MHz	5.34 dBm	-24.66 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.13043 MHz	-52.96 dBm	-27.96 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.01874 MHz	-56.21 dBm	-43.21 dB

Date: 16.JAN.2019 15:59:37

Highest Band Edge / Full RB



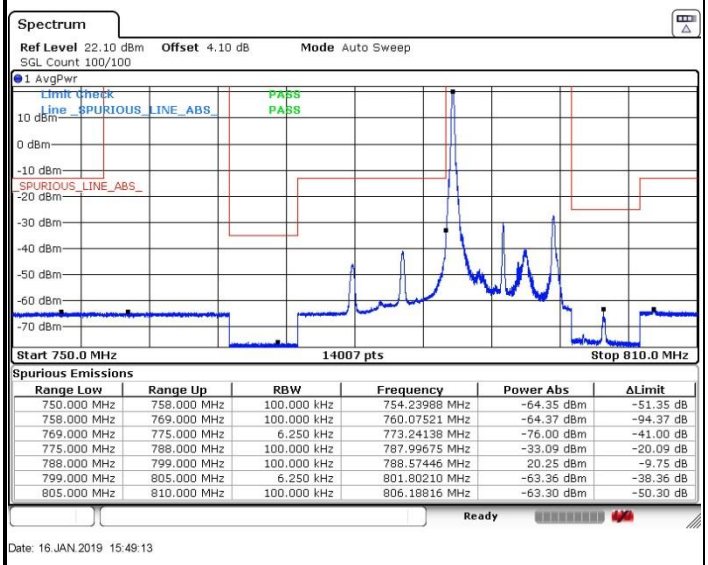
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.37831 MHz	-64.45 dBm	-51.45 dB
758.000 MHz	769.000 MHz	100.000 kHz	767.20515 MHz	-64.44 dBm	-94.44 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.11994 MHz	-75.88 dBm	-40.88 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.98376 MHz	-43.83 dBm	-30.83 dB
788.000 MHz	799.000 MHz	100.000 kHz	793.92329 MHz	5.43 dBm	-24.57 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.12144 MHz	-48.13 dBm	-23.13 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.00125 MHz	-46.04 dBm	-33.04 dB

Date: 16.JAN.2019 16:01:30

LTE Band 14 / 10MHz / QPSK

Lowest Band Edge / 1 RB

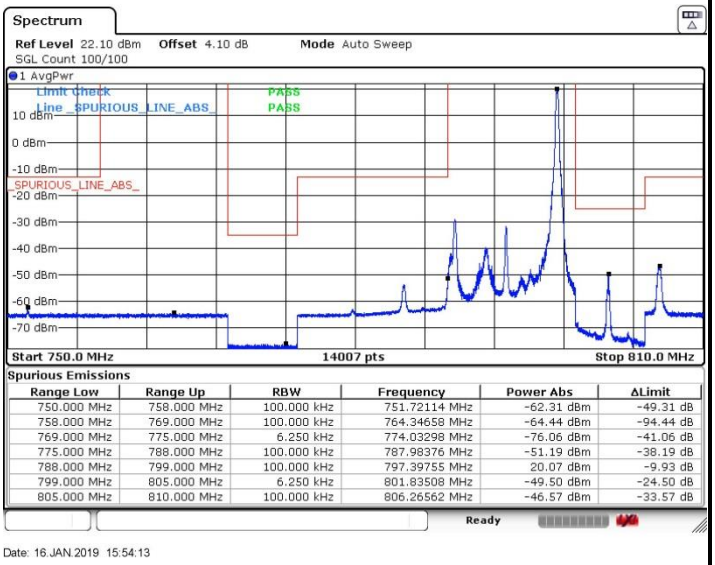


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	754.23988 MHz	-64.35 dBm	-51.35 dB
758.000 MHz	769.000 MHz	100.000 kHz	760.07521 MHz	-64.37 dBm	-94.37 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.24138 MHz	-76.00 dBm	-41.00 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99675 MHz	-33.09 dBm	-20.09 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.57446 MHz	20.25 dBm	-9.75 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.80210 MHz	-63.36 dBm	-38.36 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.18816 MHz	-63.30 dBm	-50.30 dB

Date: 16.JAN.2019 15:49:13

Highest Band Edge / 1 RB

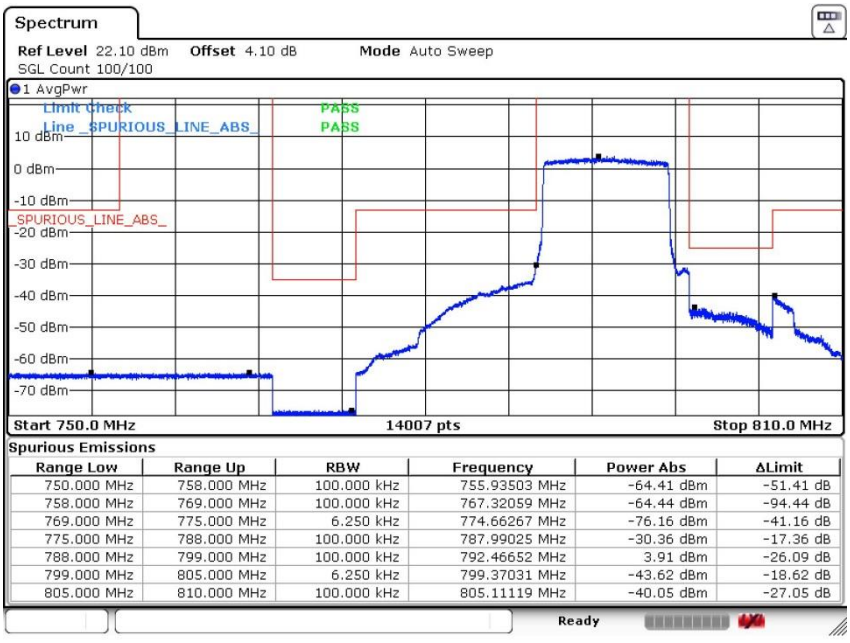


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.72114 MHz	-62.31 dBm	-49.31 dB
758.000 MHz	769.000 MHz	100.000 kHz	764.34658 MHz	-64.44 dBm	-94.44 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.03298 MHz	-76.06 dBm	-41.06 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.98376 MHz	-51.19 dBm	-38.19 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.39755 MHz	20.07 dBm	-9.93 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.83508 MHz	-49.50 dBm	-24.50 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.26562 MHz	-46.57 dBm	-33.57 dB

Date: 16.JAN.2019 15:54:13

Band Edge / Full RB



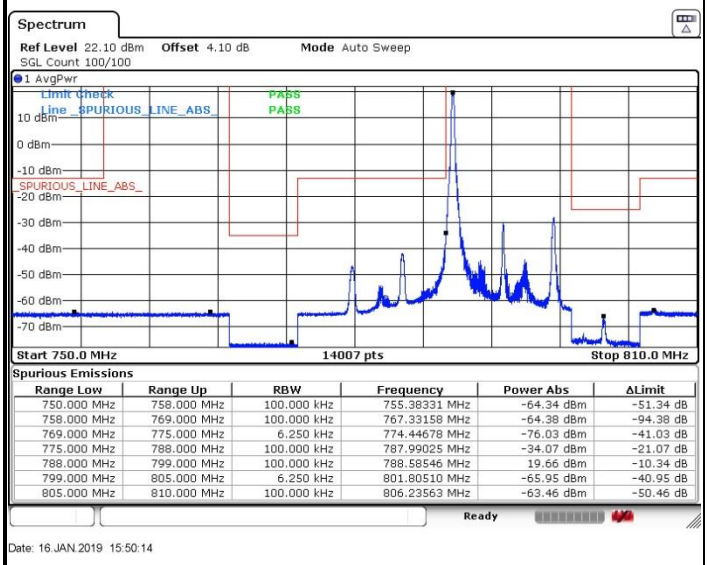
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	755.93503 MHz	-64.41 dBm	-51.41 dB
758.000 MHz	769.000 MHz	100.000 kHz	767.32059 MHz	-64.44 dBm	-94.44 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.66267 MHz	-76.16 dBm	-41.16 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99025 MHz	-30.36 dBm	-17.36 dB
788.000 MHz	799.000 MHz	100.000 kHz	792.46652 MHz	3.91 dBm	-26.09 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.37031 MHz	-43.62 dBm	-18.62 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.11119 MHz	-40.05 dBm	-27.05 dB

Date: 16.JAN.2019 15:54:47

LTE Band 14 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

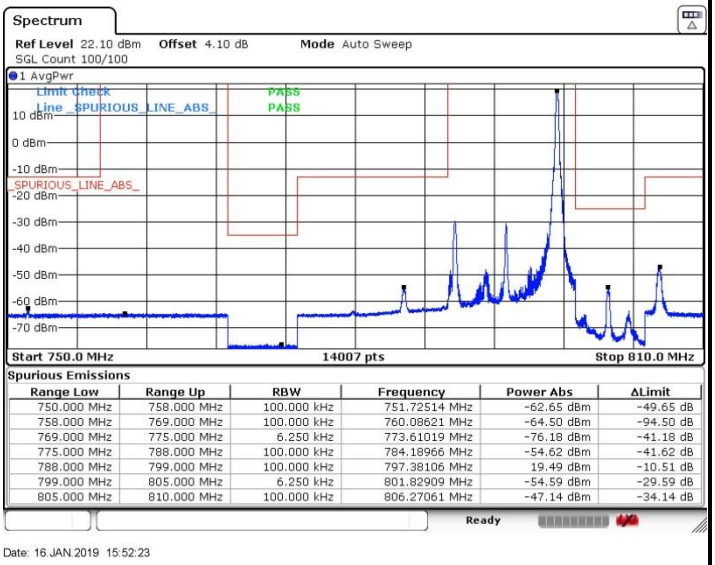


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	755.38331 MHz	-64.34 dBm	-51.34 dB
758.000 MHz	769.000 MHz	100.000 kHz	767.33158 MHz	-64.38 dBm	-94.38 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.44678 MHz	-76.03 dBm	-41.03 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99025 MHz	-34.07 dBm	-21.07 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.58546 MHz	19.66 dBm	-10.34 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.80510 MHz	-65.95 dBm	-40.95 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.23563 MHz	-63.46 dBm	-50.46 dB

Date: 16.JAN.2019 15:50:14

Highest Band Edge / 1 RB

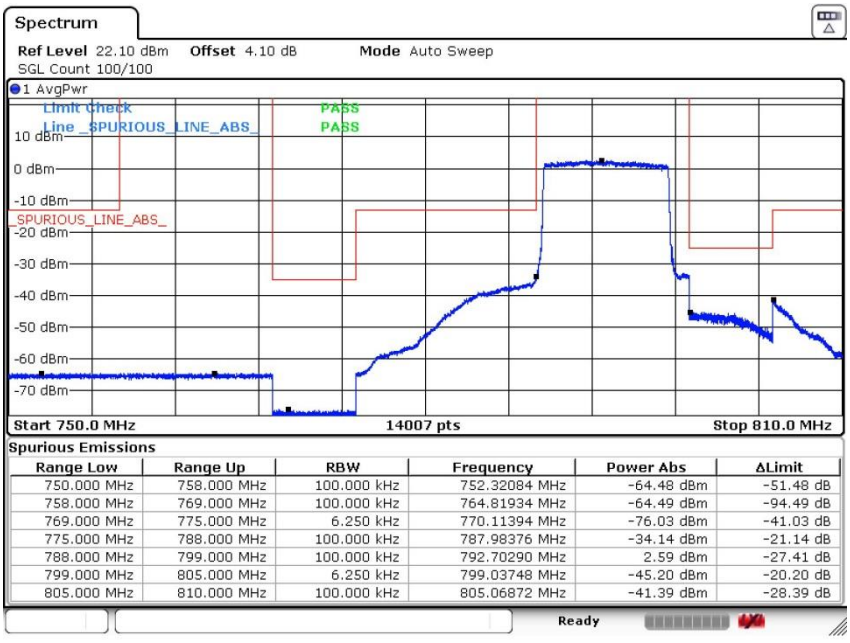


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.72514 MHz	-62.65 dBm	-49.65 dB
758.000 MHz	769.000 MHz	100.000 kHz	760.08621 MHz	-64.50 dBm	-94.50 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.61019 MHz	-76.18 dBm	-41.18 dB
775.000 MHz	788.000 MHz	100.000 kHz	784.18966 MHz	-54.62 dBm	-41.62 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.38106 MHz	19.49 dBm	-10.51 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.82909 MHz	-54.59 dBm	-29.59 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.27061 MHz	-47.14 dBm	-34.14 dB

Date: 16.JAN.2019 15:52:23

Band Edge / Full RB



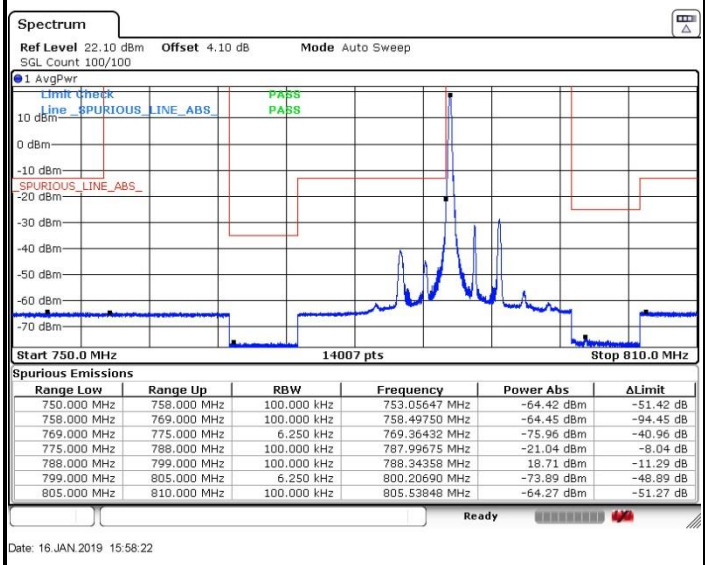
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	752.32084 MHz	-64.48 dBm	-51.48 dB
758.000 MHz	769.000 MHz	100.000 kHz	764.81934 MHz	-64.49 dBm	-94.49 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.11394 MHz	-76.03 dBm	-41.03 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.98376 MHz	-34.14 dBm	-21.14 dB
788.000 MHz	799.000 MHz	100.000 kHz	792.70290 MHz	2.59 dBm	-27.41 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.03748 MHz	-45.20 dBm	-20.20 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.06872 MHz	-41.39 dBm	-28.39 dB

Date: 16.JAN.2019 15:55:24

LTE Band 14 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

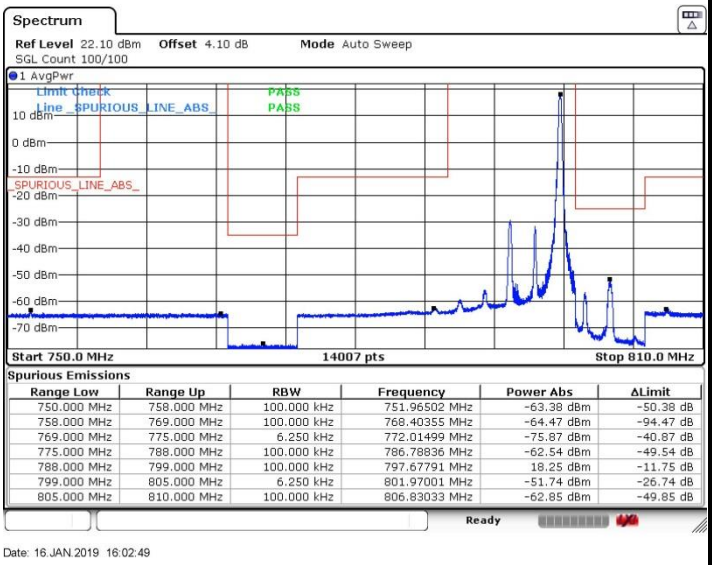


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	753.05647 MHz	-64.42 dBm	-51.42 dB
758.000 MHz	769.000 MHz	100.000 kHz	758.49750 MHz	-64.45 dBm	-94.45 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.36432 MHz	-75.96 dBm	-40.96 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99675 MHz	-21.04 dBm	-8.04 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.34358 MHz	18.71 dBm	-11.29 dB
799.000 MHz	805.000 MHz	6.250 kHz	800.20690 MHz	-73.89 dBm	-48.89 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.53848 MHz	-64.27 dBm	-51.27 dB

Date: 16.JAN.2019 15:58:22

Highest Band Edge / 1 RB

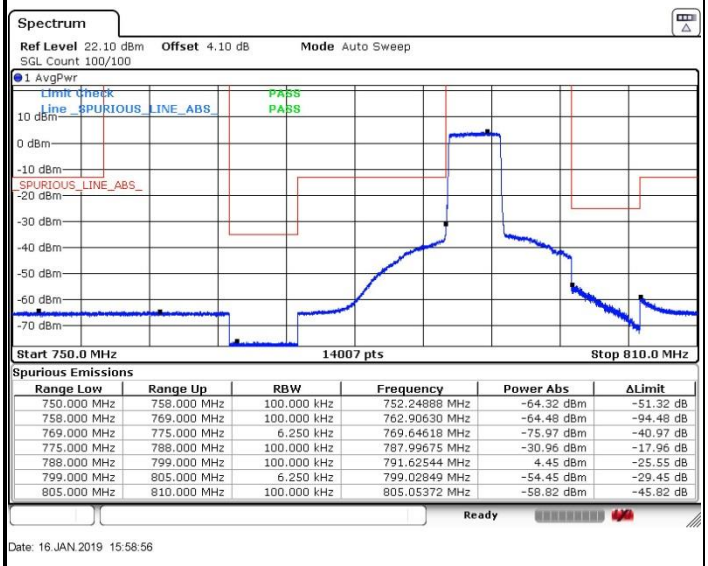


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.96502 MHz	-63.38 dBm	-50.38 dB
758.000 MHz	769.000 MHz	100.000 kHz	768.40355 MHz	-64.47 dBm	-94.47 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.01499 MHz	-75.87 dBm	-40.87 dB
775.000 MHz	788.000 MHz	100.000 kHz	786.78836 MHz	-62.54 dBm	-49.54 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.67791 MHz	18.25 dBm	-11.75 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.97001 MHz	-51.74 dBm	-26.74 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.83033 MHz	-62.85 dBm	-49.85 dB

Date: 16.JAN.2019 16:02:49

Lowest Band Edge / Full RB

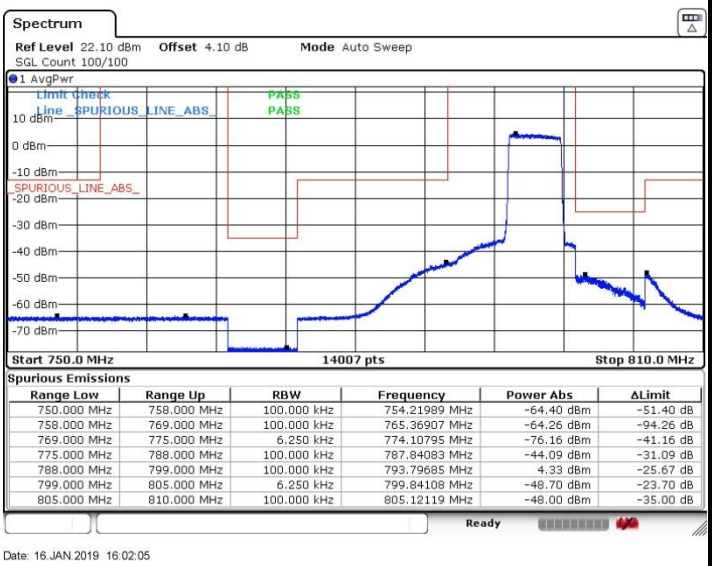


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	752.24888 MHz	-64.32 dBm	-51.32 dB
758.000 MHz	769.000 MHz	100.000 kHz	762.90630 MHz	-64.48 dBm	-94.48 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.64618 MHz	-75.97 dBm	-40.97 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99675 MHz	-30.96 dBm	-17.96 dB
788.000 MHz	799.000 MHz	100.000 kHz	791.62544 MHz	4.45 dBm	-25.55 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.02849 MHz	-54.45 dBm	-29.45 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.05372 MHz	-58.82 dBm	-45.82 dB

Date: 16.JAN.2019 15:58:56

Highest Band Edge / Full RB



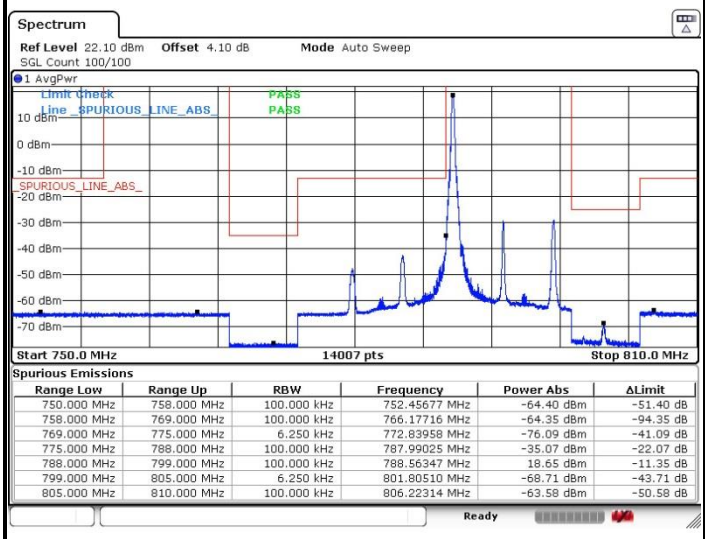
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	754.21989 MHz	-64.40 dBm	-51.40 dB
758.000 MHz	769.000 MHz	100.000 kHz	765.36907 MHz	-64.26 dBm	-94.26 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.10795 MHz	-76.16 dBm	-41.16 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.84083 MHz	-44.09 dBm	-31.09 dB
788.000 MHz	799.000 MHz	100.000 kHz	793.79685 MHz	4.33 dBm	-25.67 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.84108 MHz	-48.70 dBm	-23.70 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.12119 MHz	-48.00 dBm	-35.00 dB

Date: 16.JAN.2019 16:02:05

LTE Band 14 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	752.45677 MHz	-64.40 dBm	-51.40 dB
758.000 MHz	769.000 MHz	100.000 kHz	766.17716 MHz	-64.35 dBm	-94.35 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.83958 MHz	-76.09 dBm	-41.09 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99025 MHz	-35.07 dBm	-22.07 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.56347 MHz	18.65 dBm	-11.35 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.80510 MHz	-68.71 dBm	-43.71 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.22314 MHz	-63.58 dBm	-50.58 dB

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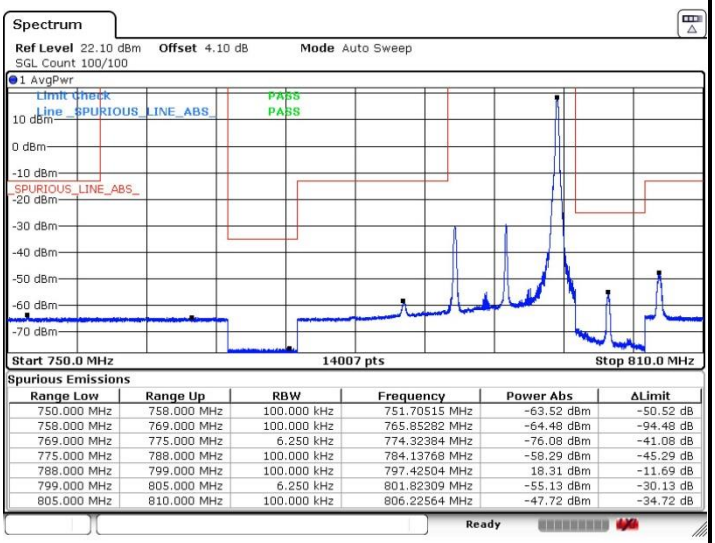
Highest Band Edge / 1 RB

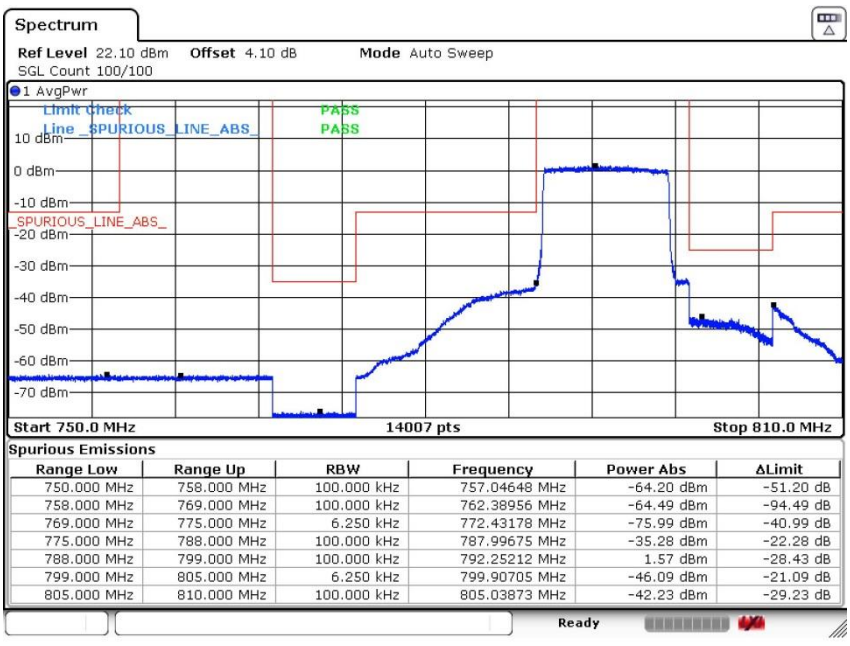


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.70515 MHz	-63.52 dBm	-50.52 dB
758.000 MHz	769.000 MHz	100.000 kHz	765.85282 MHz	-64.48 dBm	-94.48 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.32384 MHz	-76.08 dBm	-41.08 dB
775.000 MHz	788.000 MHz	100.000 kHz	784.13768 MHz	-58.29 dBm	-45.29 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.42504 MHz	18.31 dBm	-11.69 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.82309 MHz	-55.13 dBm	-30.13 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.22564 MHz	-47.72 dBm	-34.72 dB

Date: 16.JAN.2019 15:51:44

Band Edge / Full RB

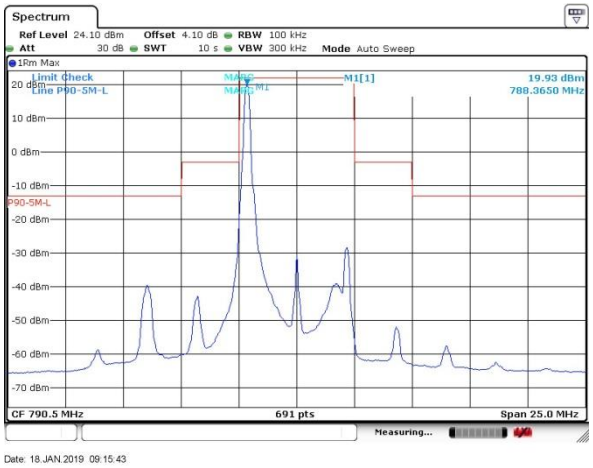
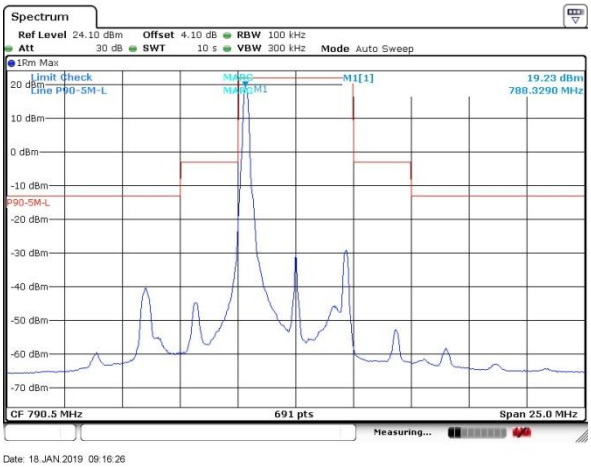
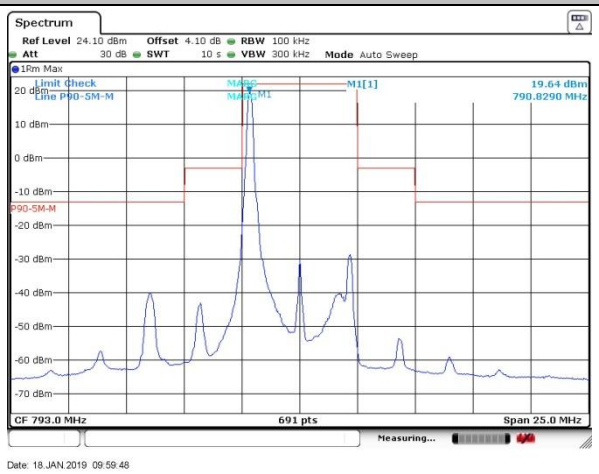
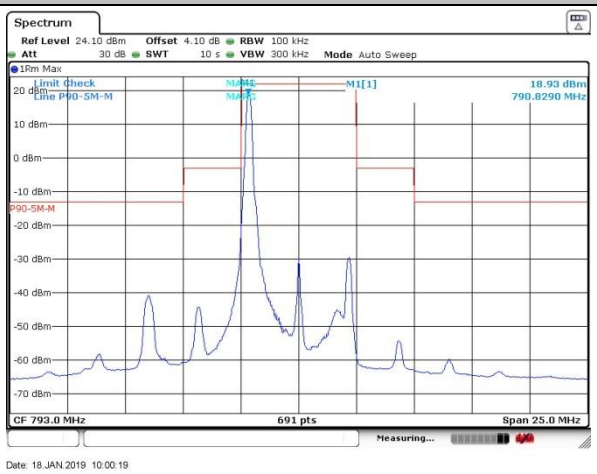


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.04648 MHz	-64.20 dBm	-51.20 dB
758.000 MHz	769.000 MHz	100.000 kHz	762.38956 MHz	-64.49 dBm	-94.49 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.43178 MHz	-75.99 dBm	-40.99 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99675 MHz	-35.28 dBm	-22.28 dB
788.000 MHz	799.000 MHz	100.000 kHz	792.25212 MHz	1.57 dBm	-28.43 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.90705 MHz	-46.09 dBm	-21.09 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.03873 MHz	-42.23 dBm	-29.23 dB

Date: 16.JAN.2019 15:55:57

Emission Mask B

LTE Band 14/ 5M(1RB0)	
Lowest Channel / 5MHz / QPSK	**Lowest Channel / 5MHz / 16QAM**
	
Middle Channel / 5MHz / QPSK	**Middle Channel / 5MHz / 16QAM**
	
Highest Channel / 5MHz / QPSK	**Highest Channel / 5MHz / 16QAM**