FCC RF Test Report

APPLICANT	:	Thundercomm Technology Co., Ltd
EQUIPMENT	:	Cellular Module
BRAND NAME	:	TurboX
MODEL NAME	:	CM6125
FCC ID	:	2AOHHTURBOXCM6125
STANDARD	:	47 CFR Part 2, 90(R)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)
TEST DATE(S)	:	May 10, 2022 ~ Jun. 02, 2022

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 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 Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED Cert #5145.01

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG232517C	Rev. 01	Initial issue of report	Jun. 22, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.2	§2.1046	Conducted Output Power	—	Reporting only	-
	§90.542 (a)(7)	Effective Radiated Power	ERP < 3Watt	PASS	-
3.3	-	Peak-to-Average Ratio	—	Reporting only	-
3.4	§2.1049	Occupied Bandwidth	—	Reporting only	-
3.5	§2.1053 §90.543 (e)(2)(3)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.6	§2.1051 §90.210(n)	Emission Mask	Mask B	PASS	-
3.7	§2.1053 §90.543 (e)(3)	Conducted Spurious Emission	< $43+10\log_{10}$(P[Watts])	PASS	-
3.8	§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 21.41 dB at 1577.000 MHz

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Applicant

Thundercomm Technology Co., Ltd
No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122

1.2 Manufacturer

Thundercomm Technology Co., Ltd
No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Cellular Module
Brand Name	TurboX
Model Name	CM6125
FCC ID	2AOHHTURBOXCM6125
Tx Frequency	LTE Band 14: 788 MHz ~ 798 MHz
Rx Frequency	LTE Band 14: 758 MHz ~ 768 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	23.30 dBm
Antenna Gain	1.2 dBi
Type of Modulation	QPSK / 16QAM / 64QAM
IMEI Code	Conducted : 869835050001758/869835050002558 Radiation : 869835050002228/869835050003028
HW Version	V03
SW Version	Turbox-CM6125_xx.xx_la1.0.V.userdebug.20220509.0843
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 Conducted Power, and Emission Designator

LTE Band 14		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	**790.5~795.5**	0.1841	4M51G7D	0.1722	4M51W7D
10	**793**	0.2138	9M07G7D	0.1563	9M07W7D

Note: All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report

1.5 Testing Site

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH02-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.7 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
- KDB 971168 D01 Power Meas License Digital Systems v03r01
- 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

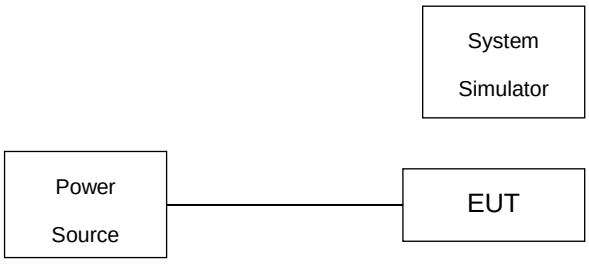
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (X-Plane)

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	
Peak-to-Average Ratio	14	-	-		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	Worst case													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.	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.	WWAN Antenna	N/A	N/A	N/A	N/A	N/A
4.	Adapter	N/A	N/A	N/A	Shielded,1.2m	N/A
5.	Test jig	N/A	N/A	N/A	N/A	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 and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.0 dB and a 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.0 + 10 = 14.0 (dB)

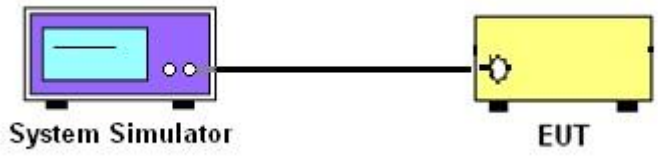
3 Conducted Test Items

3.1 Measuring Instruments

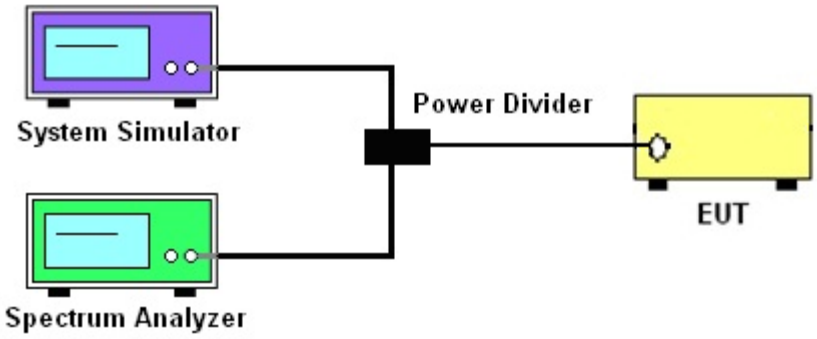
See list of measuring instruments of this test report.

3.1.1 Test Setup

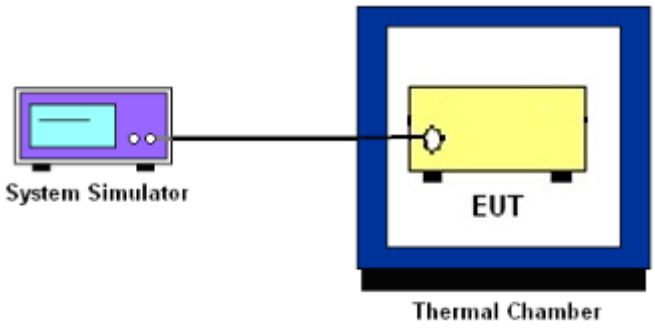
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge, Emission Mask, and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP

3.2.1 Description of the Conducted Output Power Measurement and ERP

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

3.2.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.

3.4 Occupied Bandwidth

3.4.1 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.

3.4.2 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. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.5 Conducted Band Edge Measurement

3.5.1 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.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set spectrum analyzer with RMS detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. Checked that all the results comply with the emission limit line.

   Example:

   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.

3.6 Emission Mask

3.6.1 Description of Emission Mask

<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.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
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.

3.7 Conducted Spurious Emission Measurement

3.7.1 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.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and base station via power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. 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.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. 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.

3.8 Frequency Stability Measurement

3.8.1 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.

3.8.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

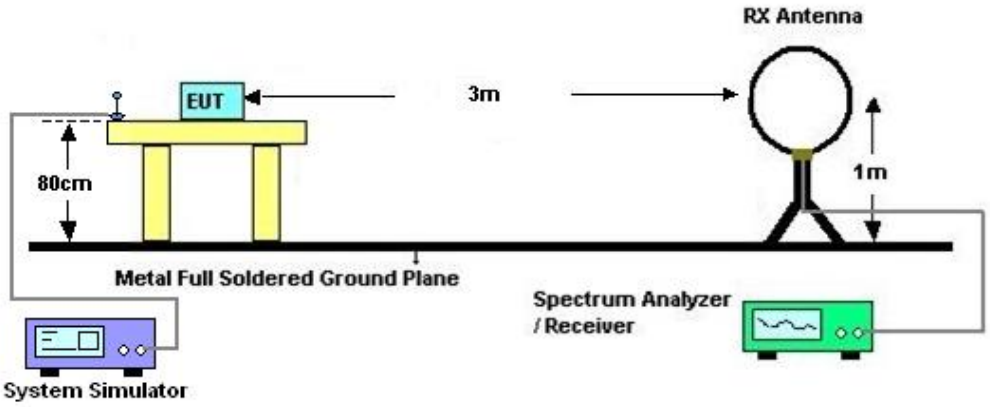
4 Radiated Test Items

4.1 Measuring Instruments

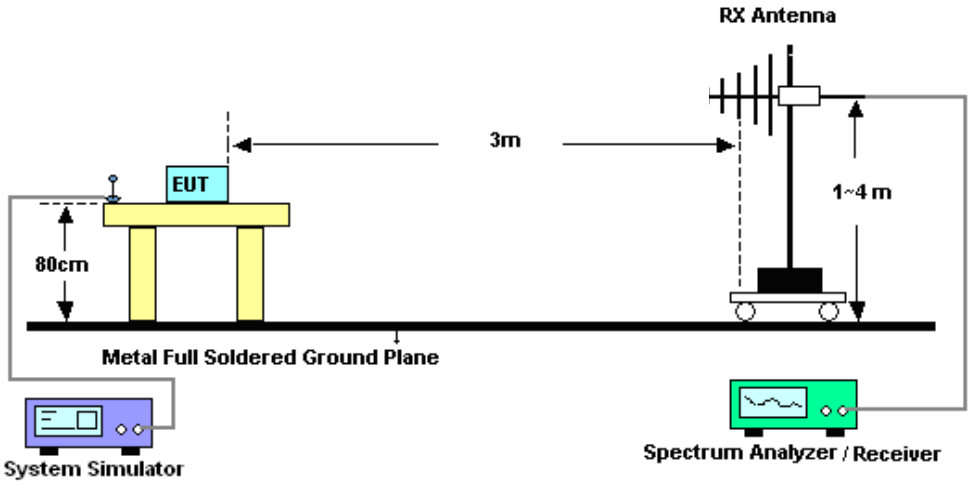
See list of measuring instruments of this test report.

4.2 Test Setup

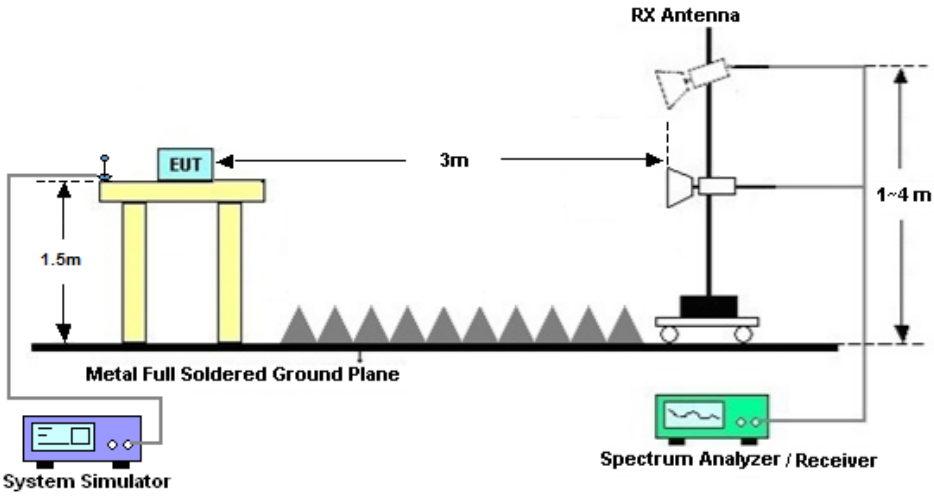
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

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
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 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. 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.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	Jun. 01, 2022~ Jun. 02, 2022	Apr. 06, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2021	Jun. 01, 2022~ Jun. 02, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Jun. 01, 2022~ Jun. 02, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 14, 2021	May 10, 2022	Jul. 13, 2022	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2021	May 10, 2022	Jun. 21, 2022	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 22, 2021	May 10, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2022	May 10, 2022	Apr. 07, 2023	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 13, 2021	May 10, 2022	Jul. 12, 2022	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	May 10, 2022	Apr. 09, 2023	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 22, 2021	May 10, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 22, 2021	May 10, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	May 10, 2022	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	May 10, 2022	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	May 10, 2022	NCR	Radiation (03CH02-SZ)

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))	**2.47dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.31dB**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.72dB**

---------- THE END ----------

Appendix A. Test Results of Conducted Test

Test Engineer :	Sam Zheng	Temperature :	24~26℃
		Relative Humidity :	50~53%

Conducted Output Power(Average power)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					23330	
Frequency (MHz)					793	
10	QPSK	1	0		23.10	
10	QPSK	1	25		23.30	
10	QPSK	1	49		23.28	
10	QPSK	25	0		21.65	
10	QPSK	25	12		21.66	
10	QPSK	25	25		21.59	
10	QPSK	50	0		21.54	
10	16QAM	1	0		21.94	
10	16QAM	1	25		21.84	
10	16QAM	1	49		21.85	
10	16QAM	25	0		20.89	
10	16QAM	25	12		20.71	
10	16QAM	25	25		20.74	
10	16QAM	50	0		21.13	
10	64QAM	1	0		20.78	
10	64QAM	1	25		20.89	
10	64QAM	1	49		20.78	
10	64QAM	25	0		19.90	
10	64QAM	25	12		19.74	
10	64QAM	25	25		19.67	
10	64QAM	50	0		20.04	
Channel				23305	23330	23355
Frequency (MHz)				790.5	793	795.5

5	QPSK	1	0	22.59	22.55	22.61
5	QPSK	1	12	22.59	22.51	22.65
5	QPSK	1	24	22.42	22.63	22.50
5	QPSK	12	0	21.70	21.70	21.57
5	QPSK	12	7	21.68	21.68	21.65
5	QPSK	12	13	21.68	21.59	21.65
5	QPSK	25	0	21.68	21.68	21.56
5	16QAM	1	0	22.02	21.74	21.82
5	16QAM	1	12	21.85	21.88	22.35
5	16QAM	1	24	21.69	22.36	21.89
5	16QAM	12	0	20.84	20.72	20.76
5	16QAM	12	7	20.88	20.87	20.85
5	16QAM	12	13	20.65	20.76	20.82
5	16QAM	25	0	20.76	20.71	20.71
5	64QAM	1	0	20.99	21.04	20.97
5	64QAM	1	12	20.96	21.02	21.23
5	64QAM	1	24	20.89	21.08	20.92
5	64QAM	12	0	19.88	19.83	19.74
5	64QAM	12	7	19.92	19.88	19.70
5	64QAM	12	13	19.87	19.91	19.74
5	64QAM	25	0	19.76	19.74	19.69

ERP

LTE Band 14 (G_T - L_C = 1.20 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)	22.59	22.51	22.65		23.30	
Conducted Power (Watts)	0.1816	0.1782	0.1841		0.2138	
ERP(dBm)	21.64	21.56	21.70		22.35	
ERP(Watts)	0.1459	0.1432	0.1479		0.1718	

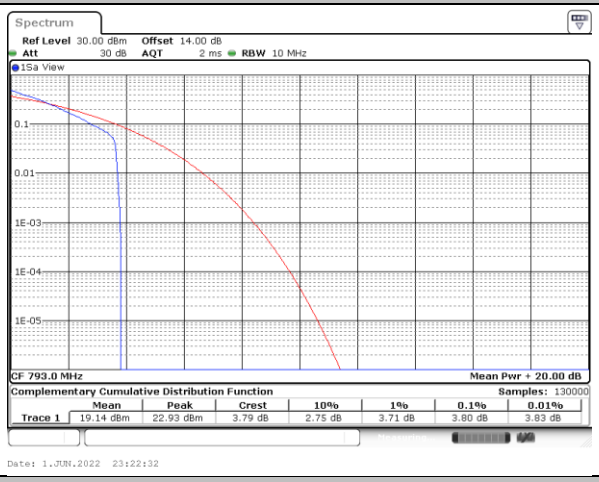
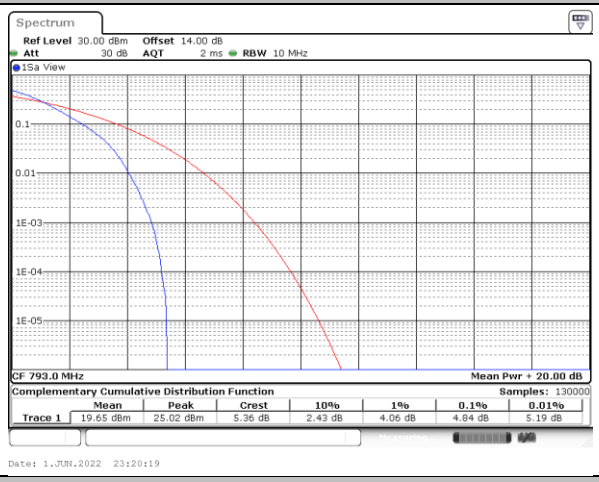
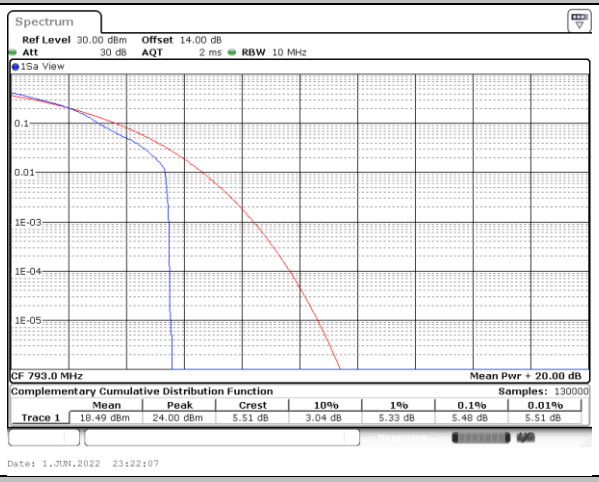
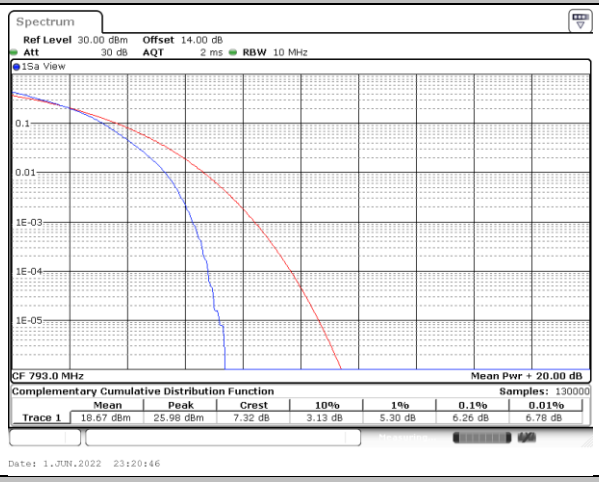
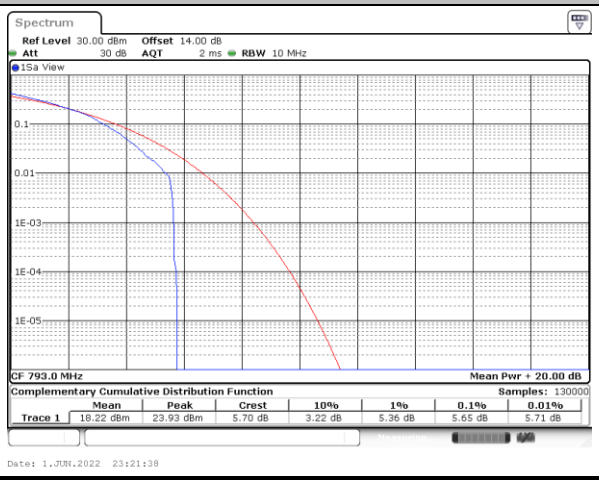
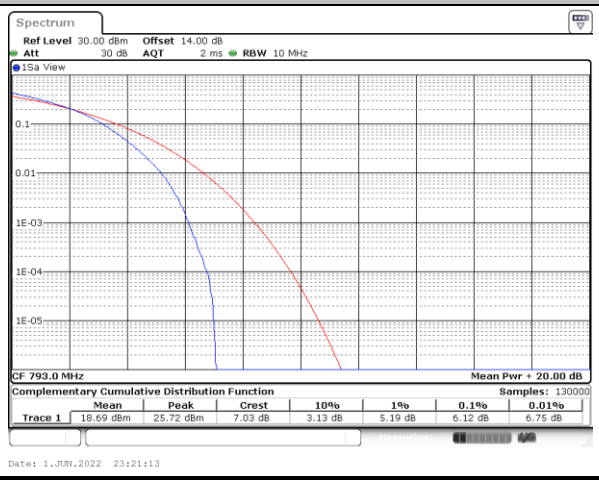
LTE Band 14 (G_T - L_C = 1.20 dBi) 16QAM						
Bandwidth	**5M**				**10M**	
Channel	**23305**	**23330**	**23355**		**23330**	
	(Low)	**(Mid)**	**(High)**		**(Mid)**	
Frequency (MHz)	**790.5**	**793**	**795.5**		**793**	
Conducted Power (dBm)	21.69	22.36	21.89		21.94	
Conducted Power (Watts)	0.1476	0.1722	0.1545		0.1563	
ERP(dBm)	20.74	21.41	20.94		20.99	
ERP(Watts)	0.1186	0.1384	0.1242		0.1256	

LTE Band 14 (G_T - L_C = 1.20 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)	20.96	21.02	21.23		20.89	
Conducted Power (Watts)	0.1247	0.1265	0.1327		0.1227	
ERP(dBm)	20.01	20.07	20.28		19.94	
ERP(Watts)	0.1002	0.1016	0.1067		0.0986	

LTE Band 14

Peak-to-Average Ratio

Mode	LTE Band 14 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.80	4.84	5.48	6.26	
Highest CH	-	-	-	-	
Mode	LTE Band 14 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.65	6.12	-	-	
Highest CH	-	-	-	-	

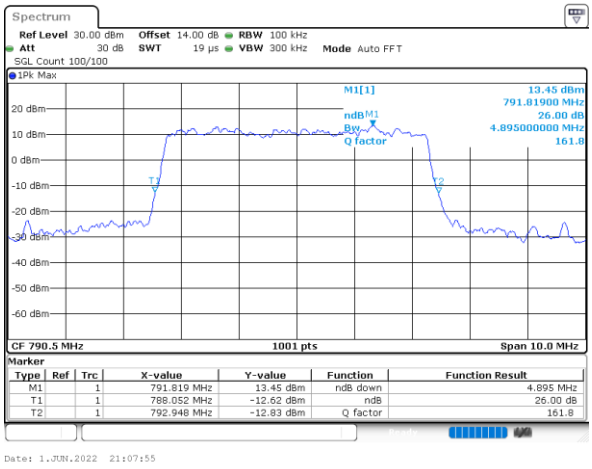
LTE Band 14 / 10MHz / QPSK	
Middle Channel/ 1RB	**Middle Channel / Full RB**
	
LTE Band 14 / 10MHz / 16QAM	
Middle Channel/ 1RB	**Middle Channel / Full RB**
	
LTE Band 14 / 10MHz / 64QAM	
Middle Channel/ 1RB	**Middle Channel / Full RB**
	

26dB Bandwidth

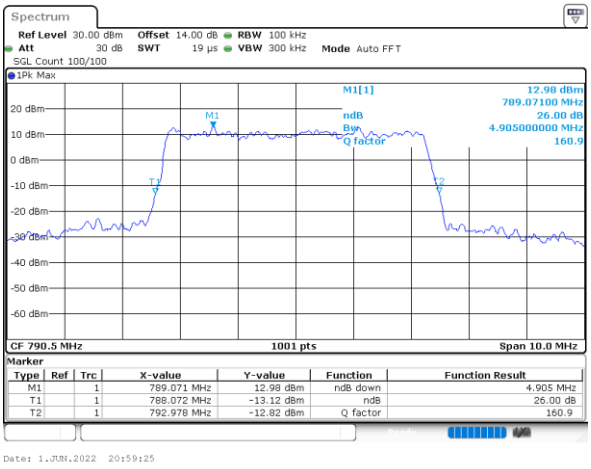
Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.90	4.91			-	-	-	-
Middle CH	-	-	-	-	4.92	4.92	9.79	9.71	-	-	-	-
Highest CH	-	-	-	-	4.87	4.88			-	-	-	-
Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.86	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.83	-	9.89	-	-	-	-	-
Highest CH	-	-	-	-	4.89	-	-	-	-	-	-	-

LTE Band 14

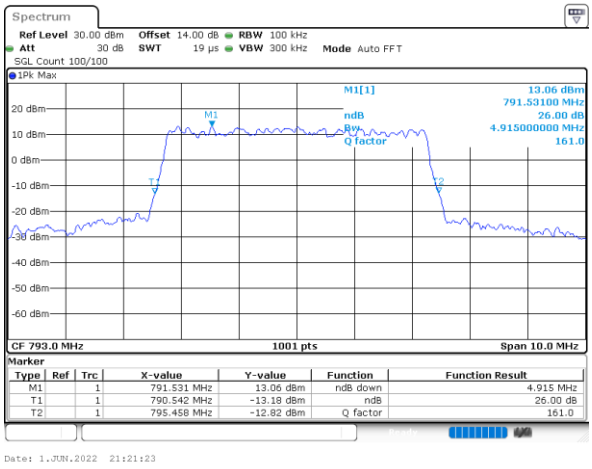
Lowest Channel / 5MHz / QPSK



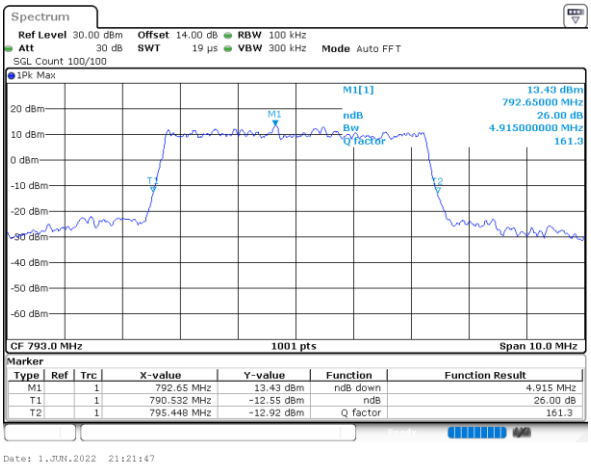
Lowest Channel / 5MHz / 16QAM



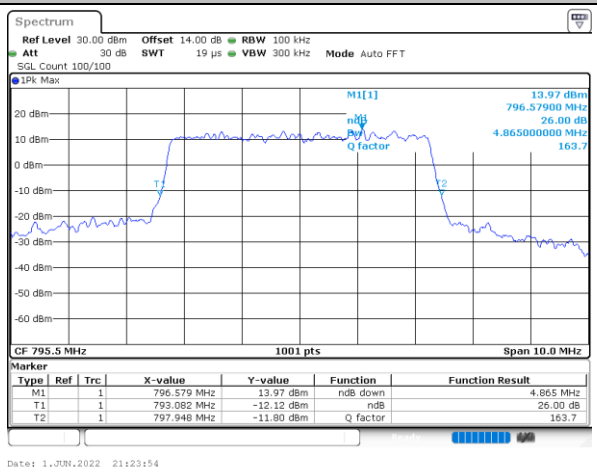
Middle Channel / 5MHz / QPSK



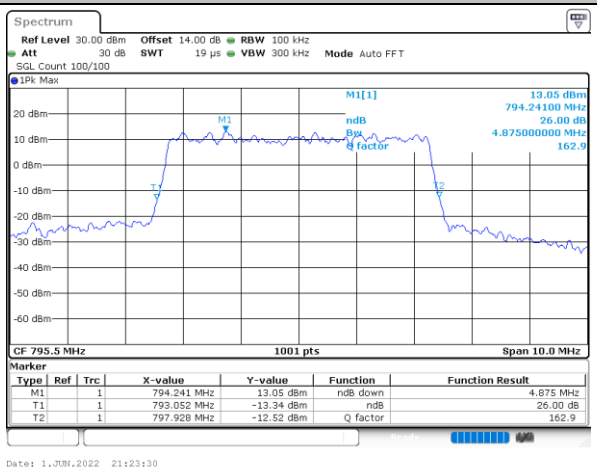
Middle Channel / 5MHz / 16QAM



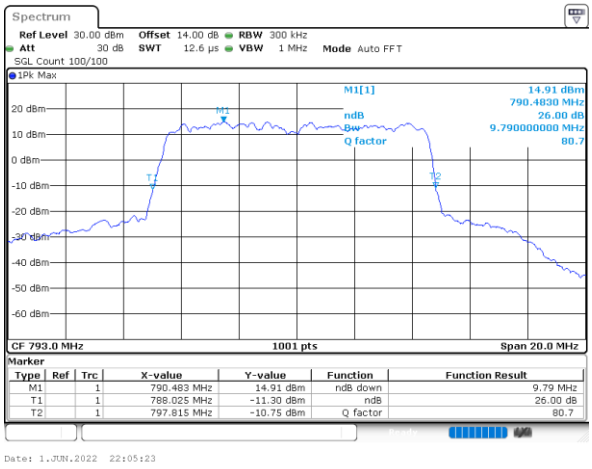
Highest Channel / 5MHz / QPSK

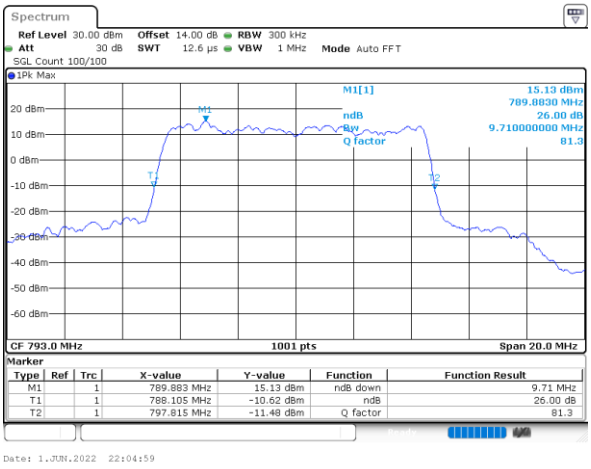


Highest Channel / 5MHz / 16QAM



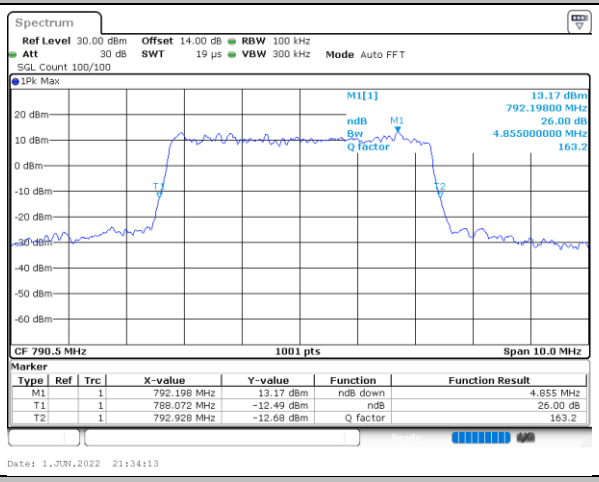
LTE Band 14	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**



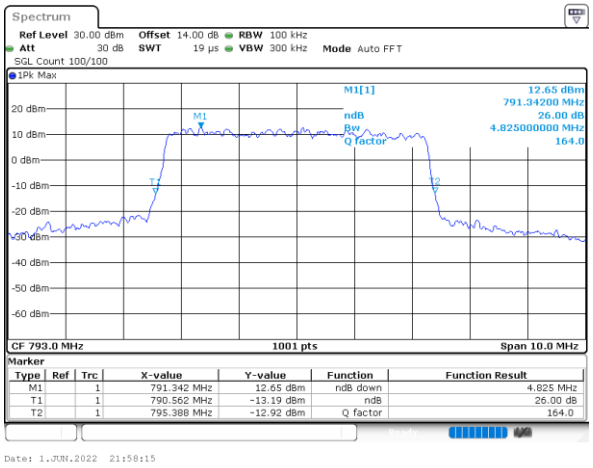


LTE Band 14

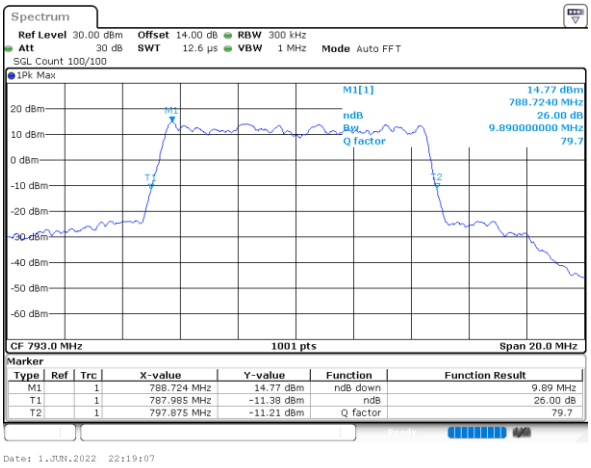
Lowest Channel / 5MHz / 64QAM



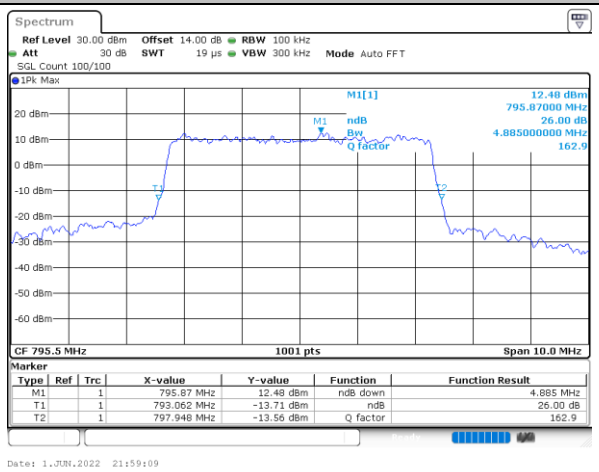
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

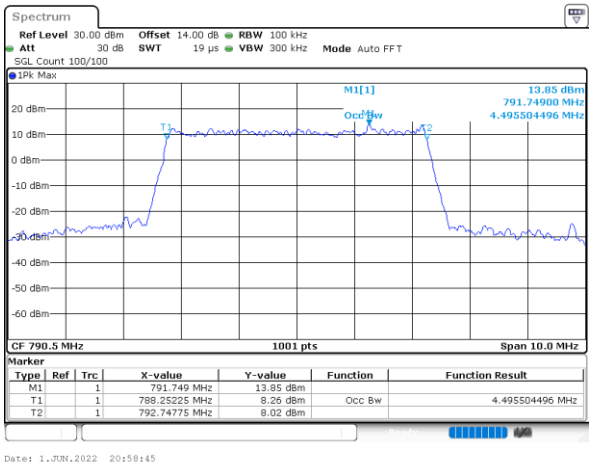


Occupied Bandwidth

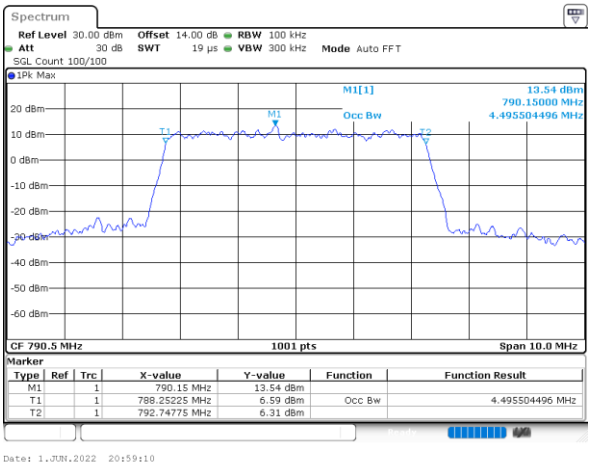
Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.50			-	-	-	-
Middle CH	-	-	-	-	4.50	4.49	9.07	9.07	-	-	-	-
Highest CH	-	-	-	-	4.51	4.46			-	-	-	-
Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.51	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	-	-	-	-	-	-

LTE Band 14

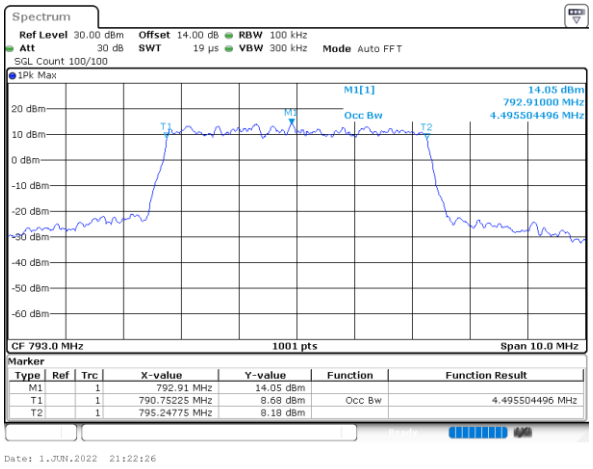
Lowest Channel / 5MHz / QPSK



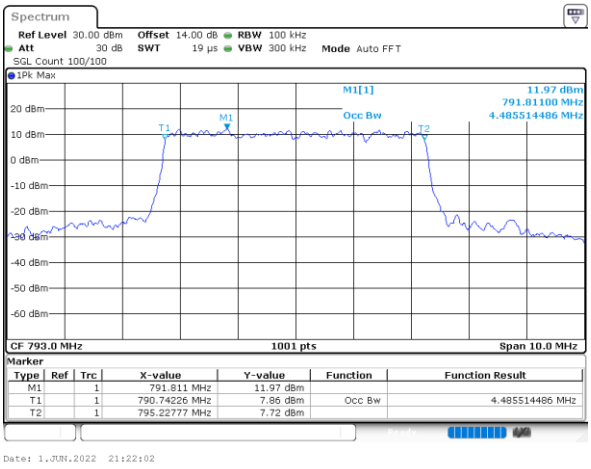
Lowest Channel / 5MHz / 16QAM



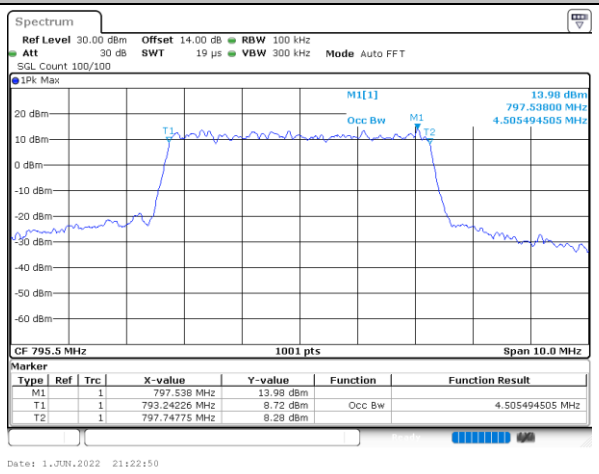
Middle Channel / 5MHz / QPSK



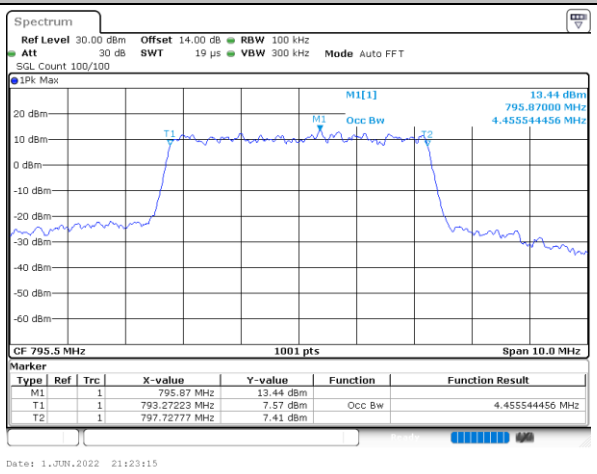
Middle Channel / 5MHz / 16QAM

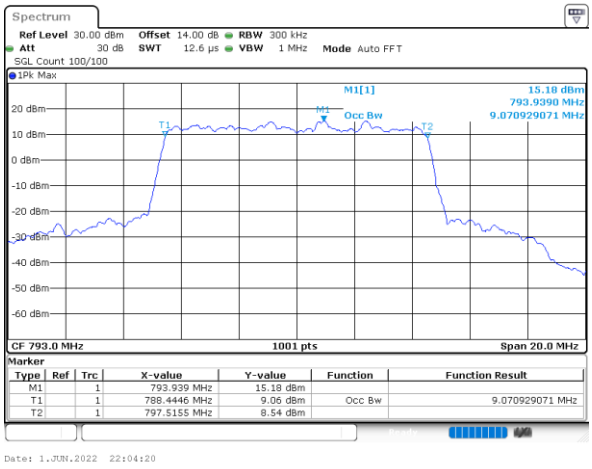
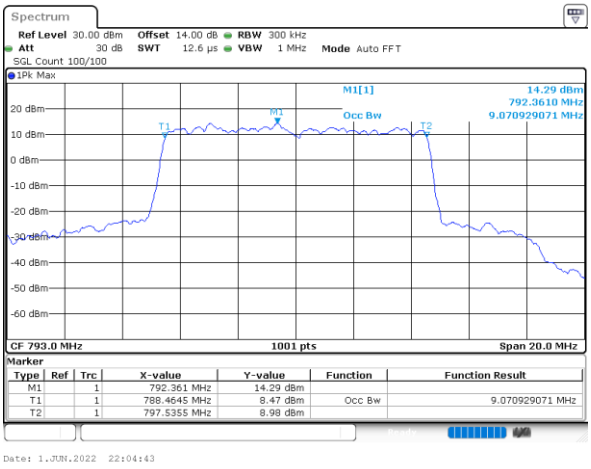


Highest Channel / 5MHz / QPSK



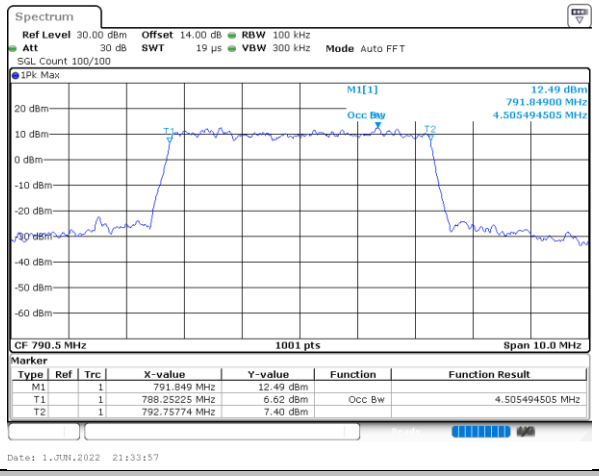
Highest Channel / 5MHz / 16QAM



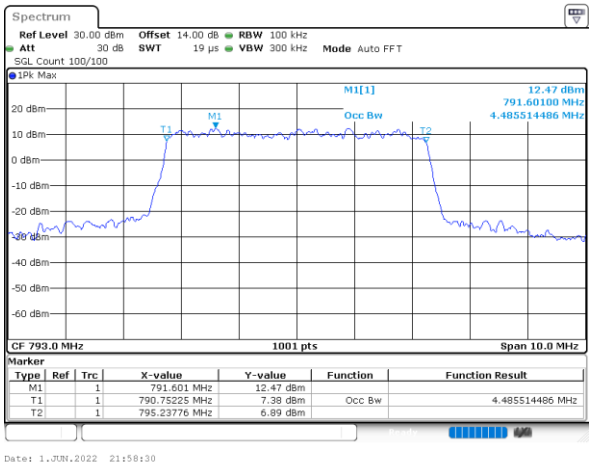
LTE Band 14	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

LTE Band 14

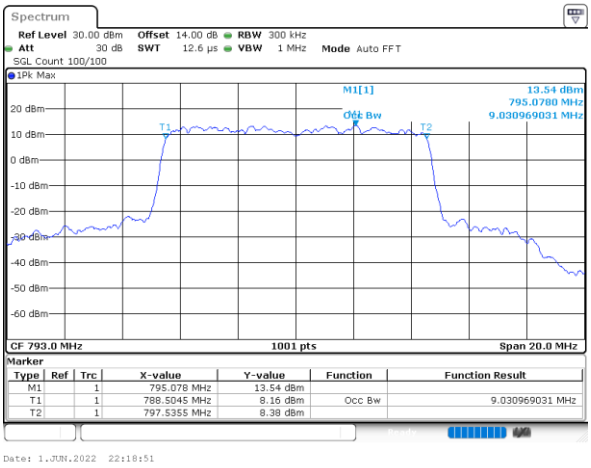
Lowest Channel / 5MHz / 64QAM



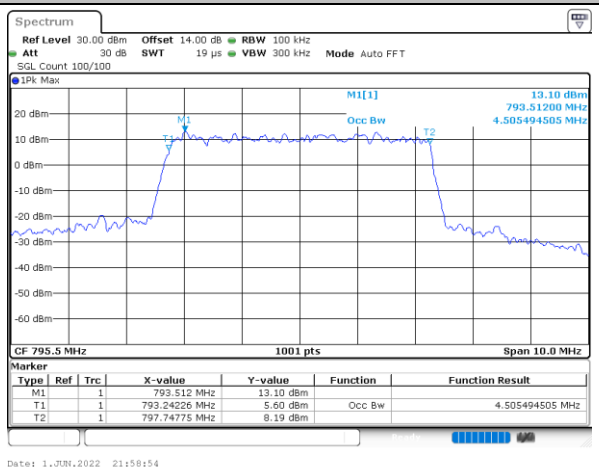
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



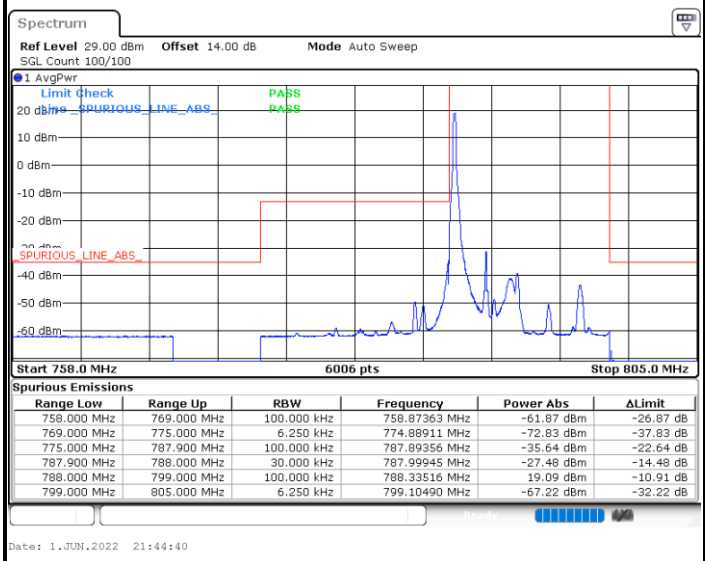
Highest Channel / 5MHz / 64QAM



Conducted Band Edge

LTE Band 14 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.87363 MHz	-61.87 dBm	-26.87 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.88911 MHz	-72.83 dBm	-37.83 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.89356 MHz	-35.64 dBm	-22.64 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.99945 MHz	-27.48 dBm	-14.48 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.33516 MHz	19.09 dBm	-10.91 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.10490 MHz	-67.22 dBm	-32.22 dB

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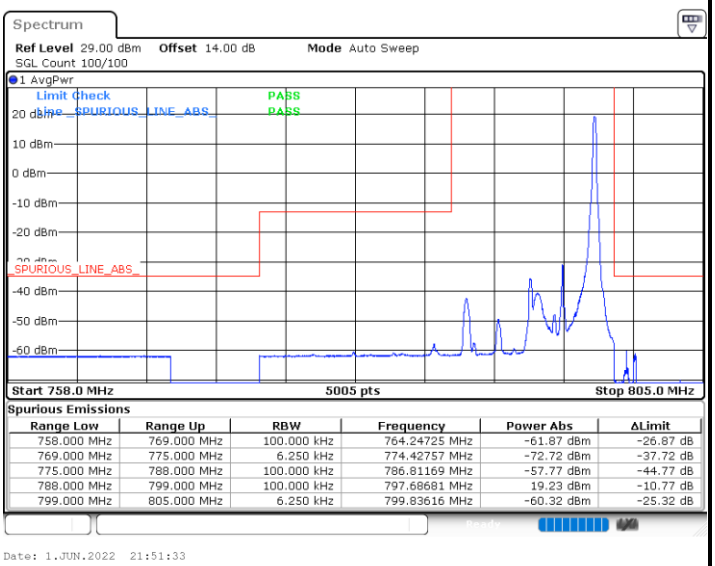
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	764.24725 MHz	-61.87 dBm	-26.87 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.42757 MHz	-72.72 dBm	-37.72 dB
775.000 MHz	788.000 MHz	100.000 kHz	786.81169 MHz	-57.77 dBm	-44.77 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.68681 MHz	19.23 dBm	-10.77 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.83616 MHz	-60.32 dBm	-25.32 dB

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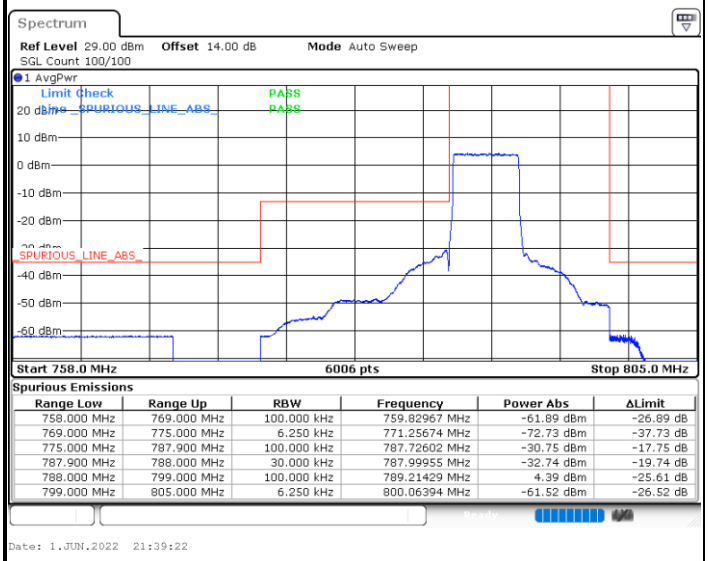
Lowest Band Edge / Full RB

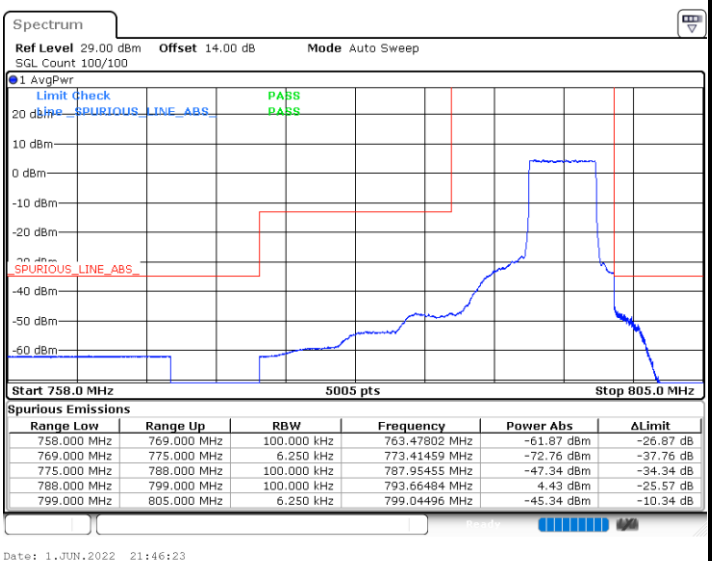


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	759.82967 MHz	-61.89 dBm	-26.89 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.25674 MHz	-72.73 dBm	-37.73 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.72602 MHz	-30.75 dBm	-17.75 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.99955 MHz	-32.74 dBm	-19.74 dB
788.000 MHz	799.000 MHz	100.000 kHz	789.21429 MHz	4.39 dBm	-25.61 dB
799.000 MHz	805.000 MHz	6.250 kHz	800.06394 MHz	-61.52 dBm	-26.52 dB

Date: 1.JUN.2022 21:39:22

Highest Band Edge / Full RB



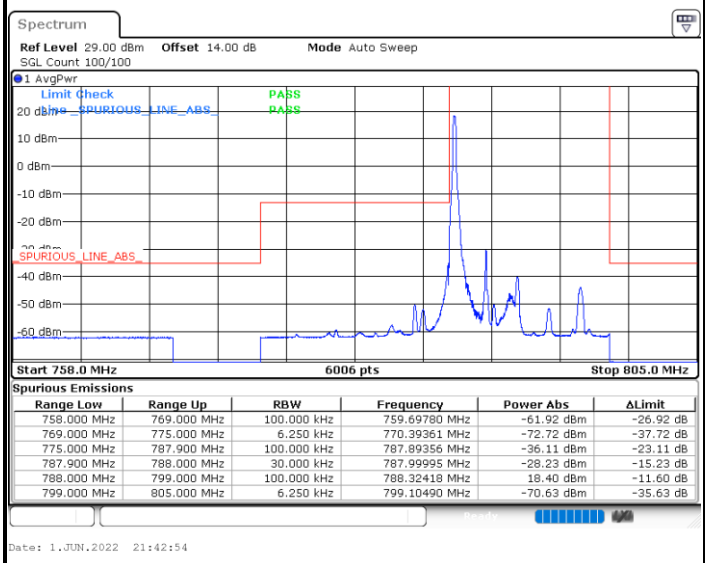
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	763.47802 MHz	-61.87 dBm	-26.87 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.41459 MHz	-72.76 dBm	-37.76 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.95455 MHz	-47.34 dBm	-34.34 dB
788.000 MHz	799.000 MHz	100.000 kHz	793.66484 MHz	4.43 dBm	-25.57 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.04496 MHz	-45.34 dBm	-10.34 dB

Date: 1.JUN.2022 21:46:23

LTE Band 14 / 5MHz / 16QAM

Lowest Band Edge /1 RB

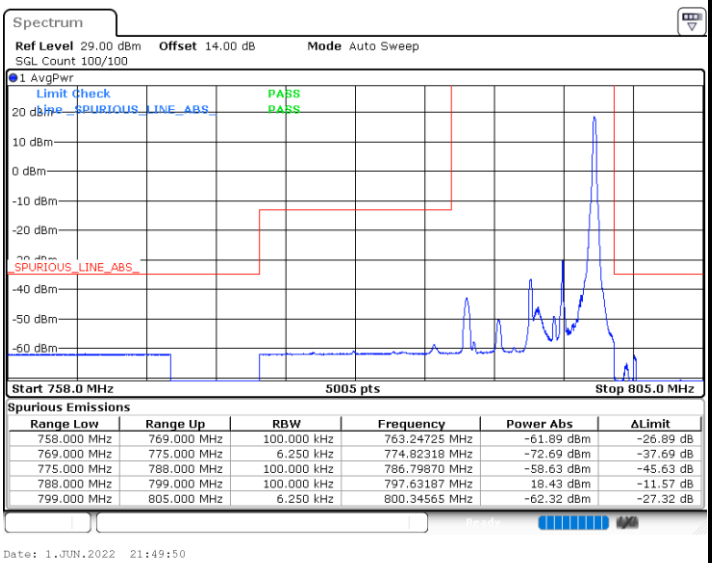


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	759.69780 MHz	-61.92 dBm	-26.92 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.39361 MHz	-72.72 dBm	-37.72 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.89356 MHz	-36.11 dBm	-23.11 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.99995 MHz	-28.23 dBm	-15.23 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.32418 MHz	18.40 dBm	-11.60 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.10490 MHz	-70.63 dBm	-35.63 dB

Date: 1.JUN.2022 21:42:54

Highest Band Edge / 1 RB

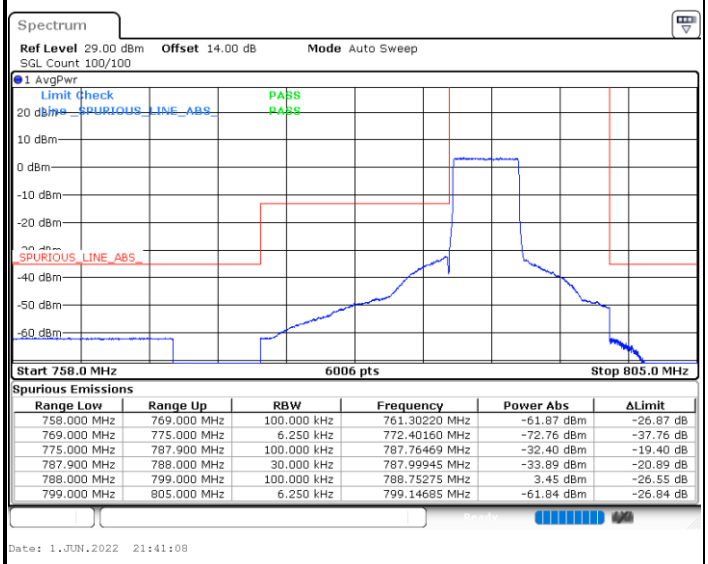


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	763.24725 MHz	-61.89 dBm	-26.89 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.82318 MHz	-72.69 dBm	-37.69 dB
775.000 MHz	788.000 MHz	100.000 kHz	786.79870 MHz	-58.63 dBm	-45.63 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.63187 MHz	18.43 dBm	-11.57 dB
799.000 MHz	805.000 MHz	6.250 kHz	800.34565 MHz	-62.32 dBm	-27.32 dB

Date: 1.JUN.2022 21:49:50

Lowest Band Edge / Full RB

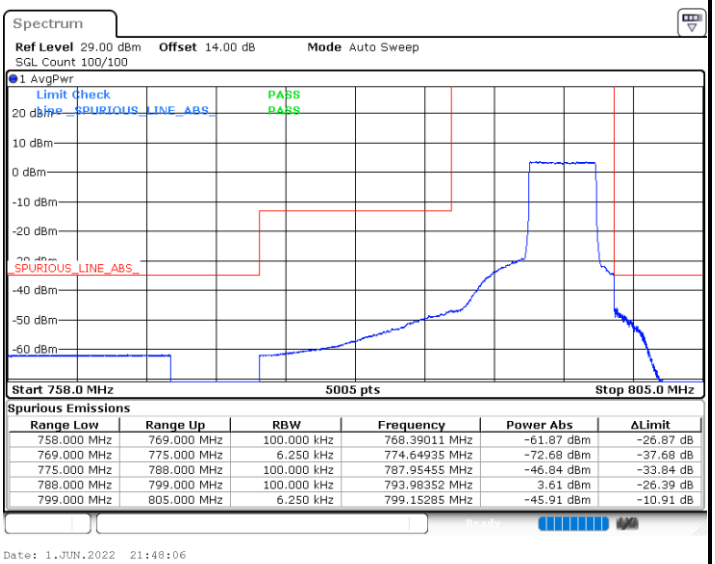


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	761.30220 MHz	-61.87 dBm	-26.87 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.40160 MHz	-72.76 dBm	-37.76 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.76469 MHz	-32.40 dBm	-19.40 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.99945 MHz	-33.89 dBm	-20.89 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.75275 MHz	3.45 dBm	-26.55 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.14685 MHz	-61.84 dBm	-26.84 dB

Date: 1.JUN.2022 21:41:08

Highest Band Edge / Full RB



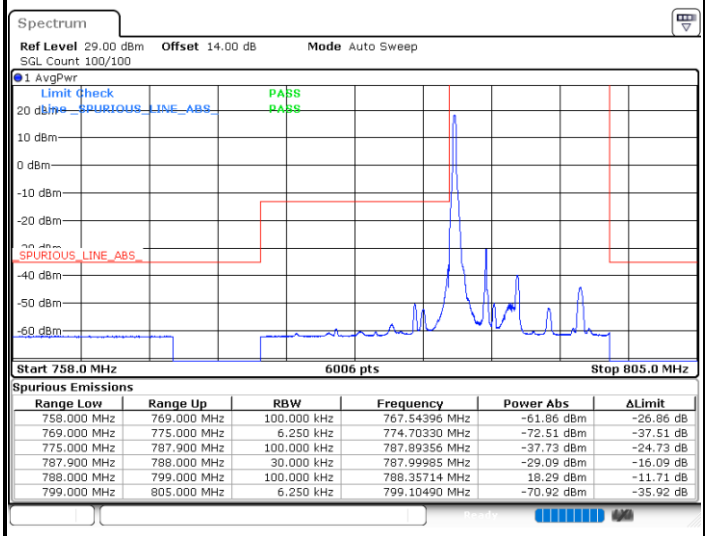
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	768.39011 MHz	-61.87 dBm	-26.87 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.64935 MHz	-72.68 dBm	-37.68 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.95455 MHz	-46.84 dBm	-33.84 dB
788.000 MHz	799.000 MHz	100.000 kHz	793.98352 MHz	3.61 dBm	-26.39 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.15285 MHz	-45.91 dBm	-10.91 dB

Date: 1.JUN.2022 21:48:06

LTE Band 14 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

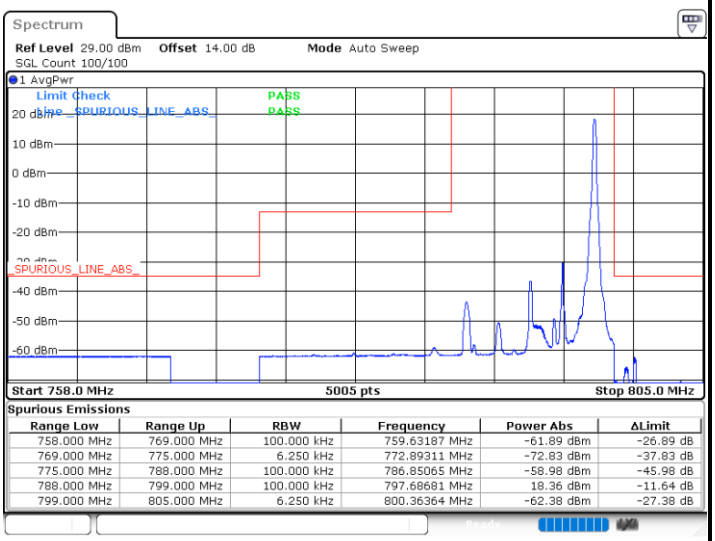


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	767.54396 MHz	-61.86 dBm	-26.86 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.70330 MHz	-72.51 dBm	-37.51 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.89356 MHz	-37.73 dBm	-24.73 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.99985 MHz	-29.09 dBm	-16.09 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.35714 MHz	18.29 dBm	-11.71 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.10490 MHz	-70.92 dBm	-35.92 dB

Date: 1.JUN.2022 21:55:05

Highest Band Edge / 1 RB

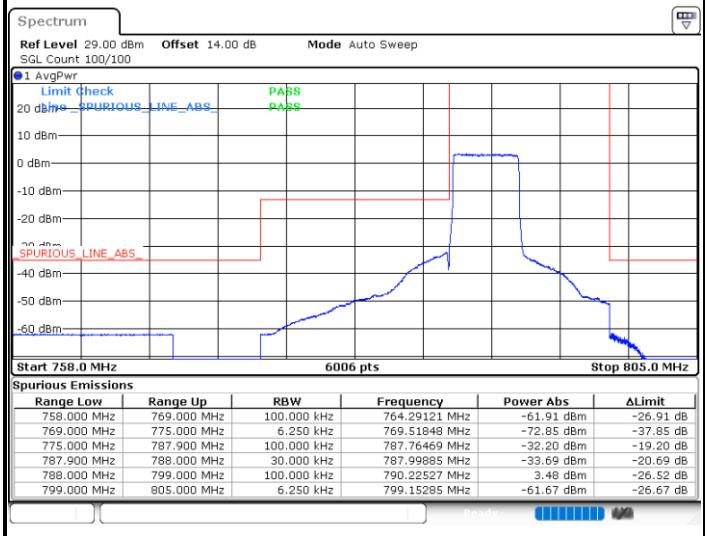


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	759.63187 MHz	-61.89 dBm	-26.89 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.89311 MHz	-72.83 dBm	-37.83 dB
775.000 MHz	788.000 MHz	100.000 kHz	786.85065 MHz	-58.98 dBm	-45.98 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.68681 MHz	18.36 dBm	-11.64 dB
799.000 MHz	805.000 MHz	6.250 kHz	800.36364 MHz	-62.38 dBm	-27.38 dB

Date: 1.JUN.2022 22:02:27

Lowest Band Edge / Full RB

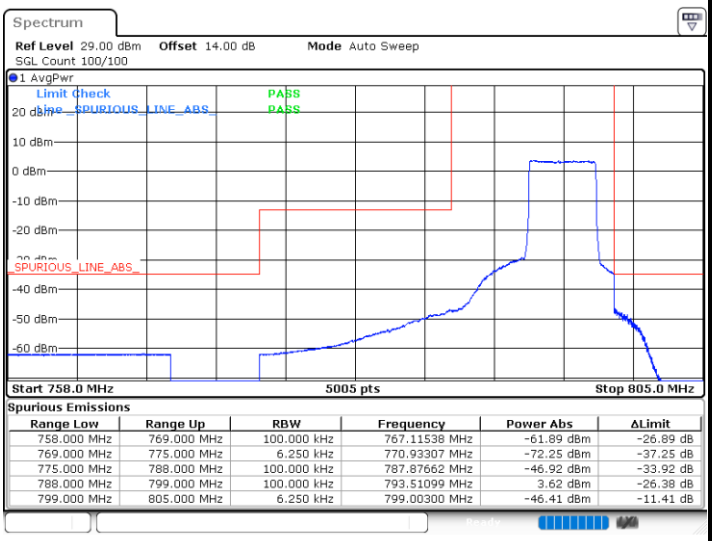


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	764.29121 MHz	-61.91 dBm	-26.91 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.51848 MHz	-72.85 dBm	-37.85 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.76469 MHz	-32.20 dBm	-19.20 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.99885 MHz	-33.69 dBm	-20.69 dB
788.000 MHz	799.000 MHz	100.000 kHz	790.22527 MHz	3.48 dBm	-26.52 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.15285 MHz	-61.67 dBm	-26.67 dB

Date: 1.JUN.2022 21:53:19

Highest Band Edge / Full RB



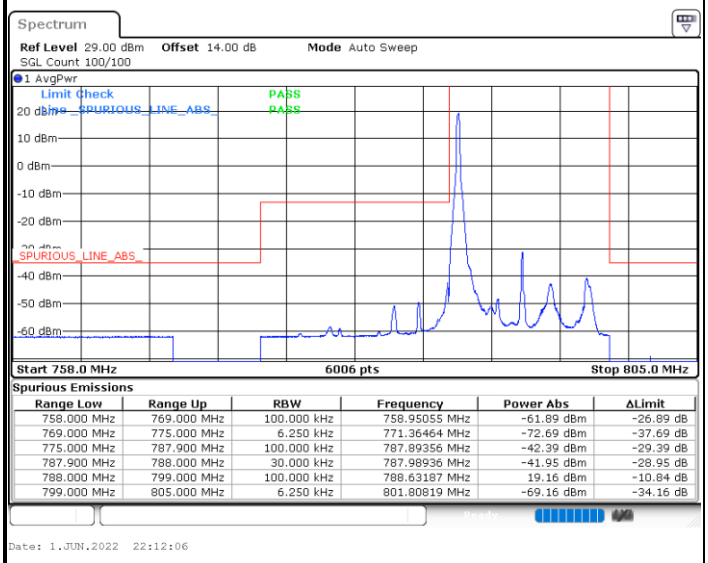
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	767.11538 MHz	-61.89 dBm	-26.89 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.93307 MHz	-72.25 dBm	-37.25 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.87662 MHz	-46.92 dBm	-33.92 dB
788.000 MHz	799.000 MHz	100.000 kHz	793.51099 MHz	3.62 dBm	-26.38 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.00300 MHz	-46.41 dBm	-11.41 dB

Date: 1.JUN.2022 22:00:44

LTE Band 14 / 10MHz / QPSK

Lowest Band Edge / 1 RB

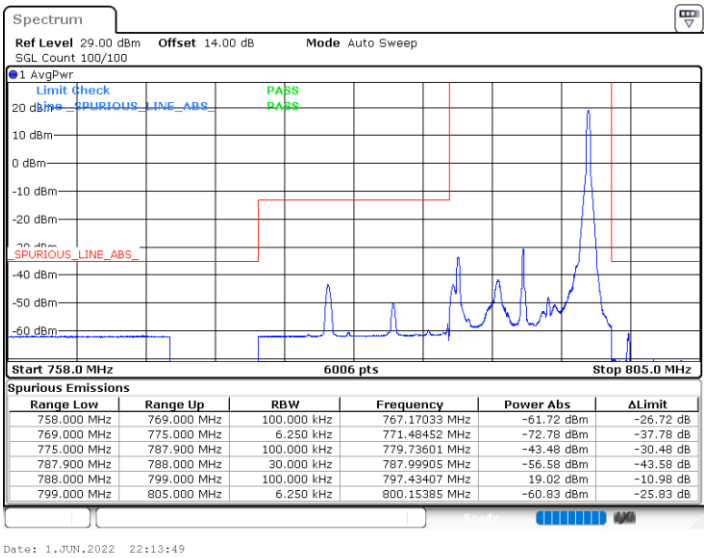


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.95055 MHz	-61.89 dBm	-26.89 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.36464 MHz	-72.69 dBm	-37.69 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.89356 MHz	-42.39 dBm	-29.39 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.98936 MHz	-41.95 dBm	-28.95 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.63187 MHz	19.16 dBm	-10.84 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.80819 MHz	-69.16 dBm	-34.16 dB

Date: 1.JUN.2022 22:12:06

Highest Band Edge / 1 RB

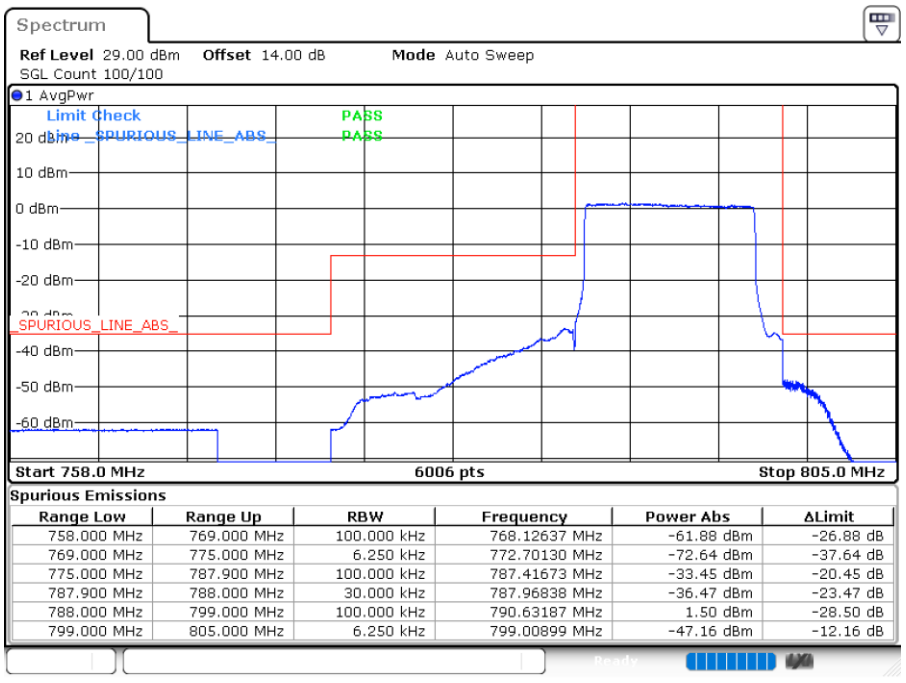


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	767.17033 MHz	-61.72 dBm	-26.72 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.48452 MHz	-72.78 dBm	-37.78 dB
775.000 MHz	787.900 MHz	100.000 kHz	779.73601 MHz	-43.48 dBm	-30.48 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.99905 MHz	-56.58 dBm	-43.58 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.43407 MHz	19.02 dBm	-10.98 dB
799.000 MHz	805.000 MHz	6.250 kHz	800.15385 MHz	-60.83 dBm	-25.83 dB

Date: 1.JUN.2022 22:13:49

Band Edge / Full RB



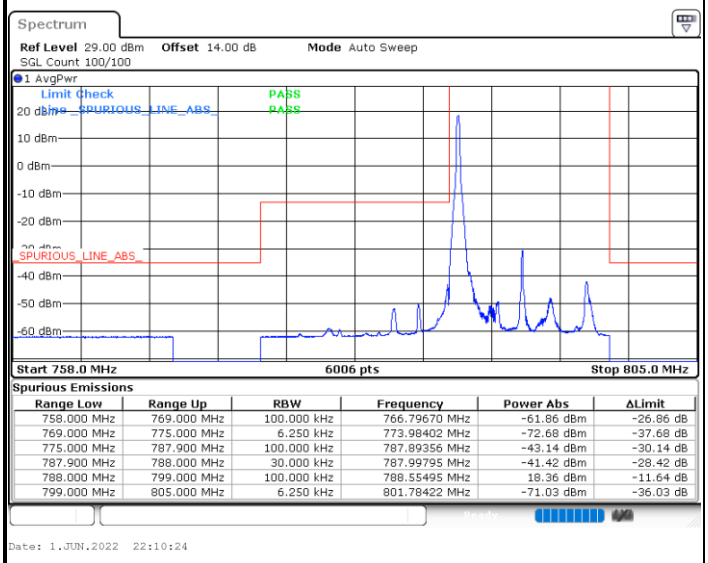
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	768.12637 MHz	-61.88 dBm	-26.88 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.70130 MHz	-72.64 dBm	-37.64 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.41673 MHz	-33.45 dBm	-20.45 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.96838 MHz	-36.47 dBm	-23.47 dB
788.000 MHz	799.000 MHz	100.000 kHz	790.63187 MHz	1.50 dBm	-28.50 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.00899 MHz	-47.16 dBm	-12.16 dB

Date: 1.JUN.2022 22:06:57

LTE Band 14 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

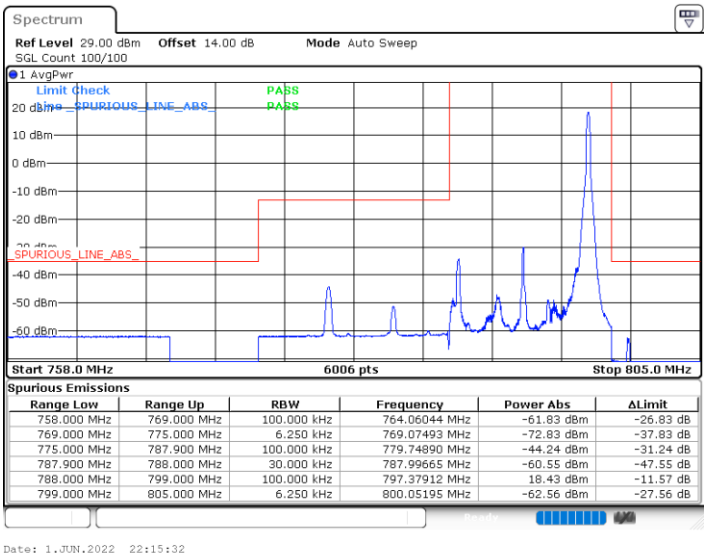


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	766.79670 MHz	-61.86 dBm	-26.86 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.98402 MHz	-72.68 dBm	-37.68 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.89356 MHz	-43.14 dBm	-30.14 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.99795 MHz	-41.42 dBm	-28.42 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.55495 MHz	18.36 dBm	-11.64 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.78422 MHz	-71.03 dBm	-36.03 dB

Date: 1.JUN.2022 22:10:24

Highest Band Edge / 1 RB

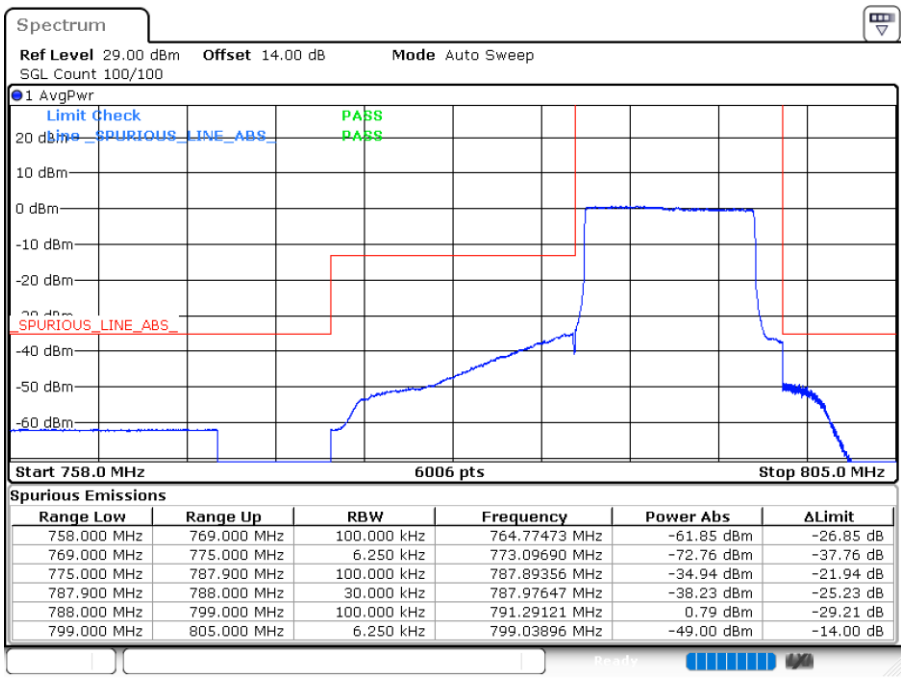


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	764.06044 MHz	-61.83 dBm	-26.83 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.07493 MHz	-72.83 dBm	-37.83 dB
775.000 MHz	787.900 MHz	100.000 kHz	779.74890 MHz	-44.24 dBm	-31.24 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.99665 MHz	-60.55 dBm	-47.55 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.37912 MHz	18.43 dBm	-11.57 dB
799.000 MHz	805.000 MHz	6.250 kHz	800.05195 MHz	-62.56 dBm	-27.56 dB

Date: 1.JUN.2022 22:15:32

Band Edge / Full RB



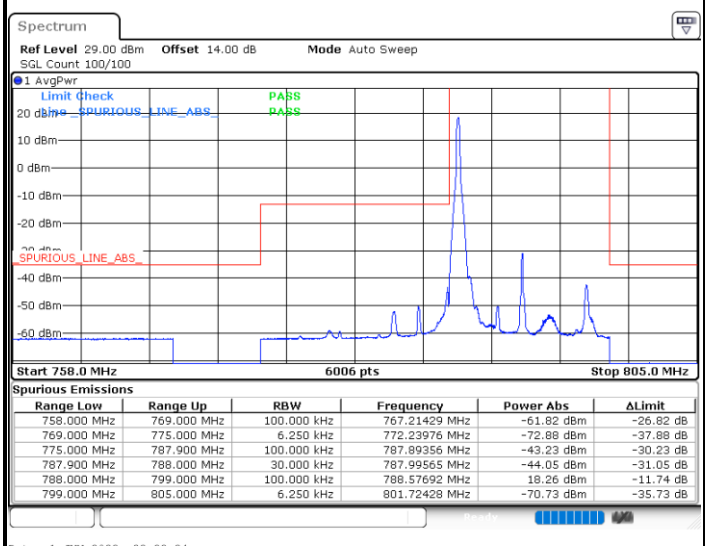
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	764.77473 MHz	-61.85 dBm	-26.85 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.09690 MHz	-72.76 dBm	-37.76 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.89356 MHz	-34.94 dBm	-21.94 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.97647 MHz	-38.23 dBm	-25.23 dB
788.000 MHz	799.000 MHz	100.000 kHz	791.29121 MHz	0.79 dBm	-29.21 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.03896 MHz	-49.00 dBm	-14.00 dB

Date: 1.JUN.2022 22:08:41

LTE Band 14 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

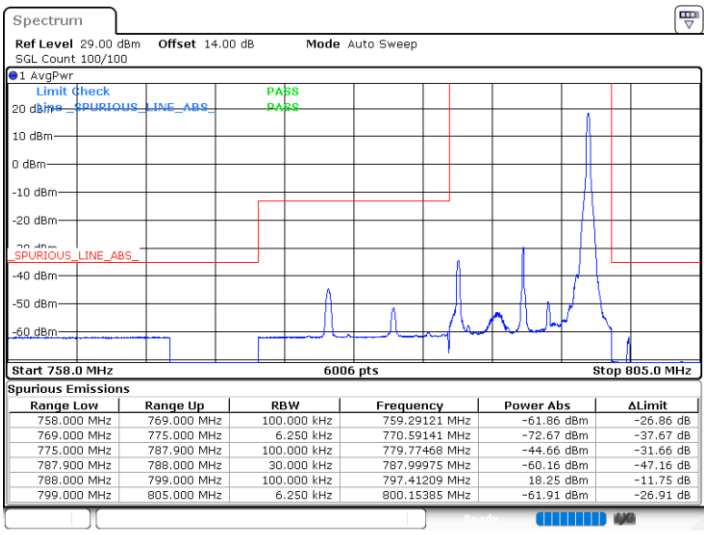


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	767.21429 MHz	-61.82 dBm	-26.82 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.23976 MHz	-72.88 dBm	-37.88 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.89356 MHz	-43.23 dBm	-30.23 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.99565 MHz	-44.05 dBm	-31.05 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.57692 MHz	18.26 dBm	-11.74 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.72428 MHz	-70.73 dBm	-35.73 dB

Date: 1.JUN.2022 22:22:24

Highest Band Edge / 1 RB

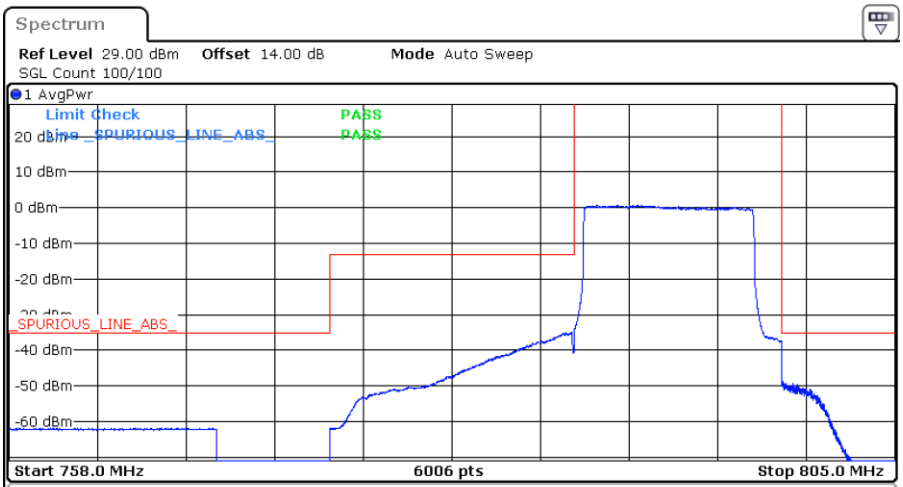


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	759.29121 MHz	-61.86 dBm	-26.86 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.59141 MHz	-72.67 dBm	-37.67 dB
775.000 MHz	787.900 MHz	100.000 kHz	779.77468 MHz	-44.66 dBm	-31.66 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.99975 MHz	-60.16 dBm	-47.16 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.41209 MHz	18.25 dBm	-11.75 dB
799.000 MHz	805.000 MHz	6.250 kHz	800.15385 MHz	-61.91 dBm	-26.91 dB

Date: 1.JUN.2022 22:24:07

Band Edge / Full RB



Spurious Emissions

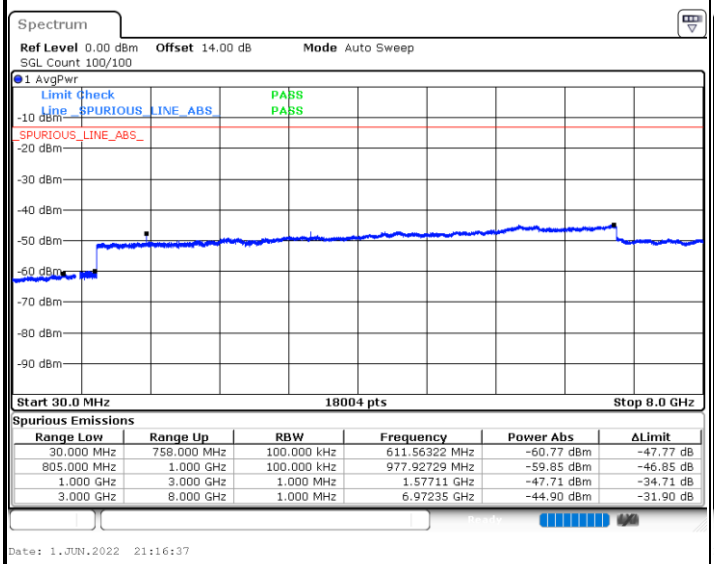
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	760.39011 MHz	-61.86 dBm	-26.86 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.41259 MHz	-72.75 dBm	-37.75 dB
775.000 MHz	787.900 MHz	100.000 kHz	787.89356 MHz	-34.93 dBm	-21.93 dB
787.900 MHz	788.000 MHz	30.000 kHz	787.98586 MHz	-38.19 dBm	-25.19 dB
788.000 MHz	799.000 MHz	100.000 kHz	789.23626 MHz	0.74 dBm	-29.26 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.05694 MHz	-48.61 dBm	-13.61 dB

Date: 1.JUN.2022 22:20:41

Conducted Spurious Emission

LTE Band 14 / 5MHz

Lowest Channel / QPSK

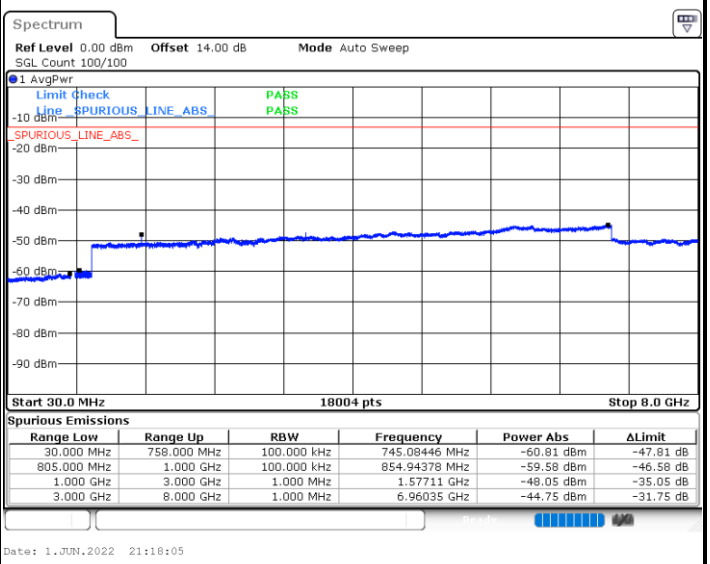


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	611.56322 MHz	-60.77 dBm	-47.77 dB
805.000 MHz	1.000 GHz	100.000 kHz	977.92729 MHz	-59.85 dBm	-46.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57711 GHz	-47.71 dBm	-34.71 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.97235 GHz	-44.90 dBm	-31.90 dB

Date: 1.JUN.2022 21:16:37

Lowest Channel / 16QAM

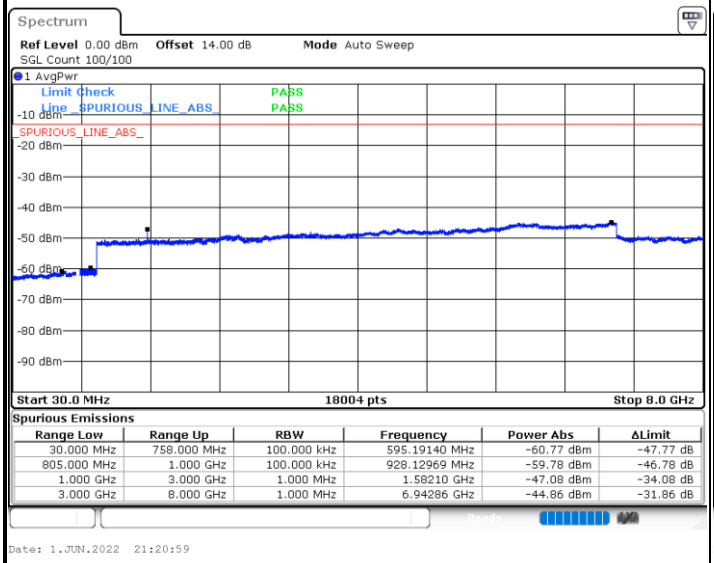


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	745.08446 MHz	-60.81 dBm	-47.81 dB
805.000 MHz	1.000 GHz	100.000 kHz	854.94378 MHz	-59.58 dBm	-46.58 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57711 GHz	-48.05 dBm	-35.05 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.96035 GHz	-44.75 dBm	-31.75 dB

Date: 1.JUN.2022 21:18:05

Middle Channel / QPSK

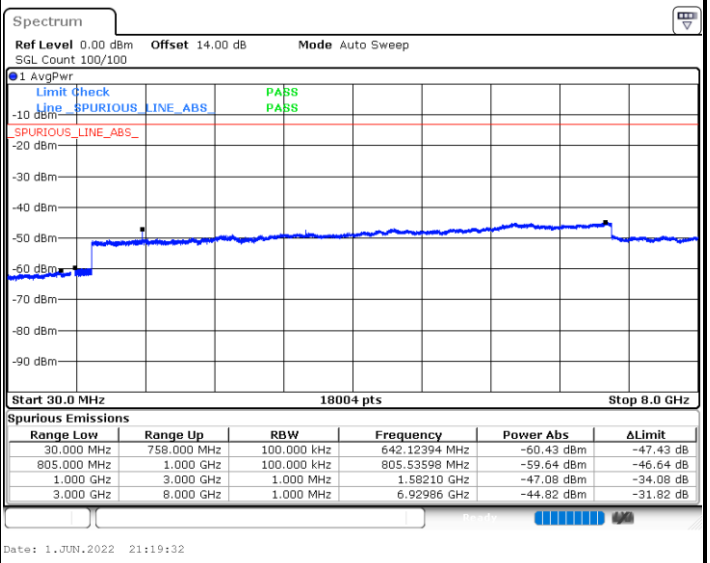


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	595.19140 MHz	-60.77 dBm	-47.77 dB
805.000 MHz	1.000 GHz	100.000 kHz	928.12969 MHz	-59.78 dBm	-46.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58210 GHz	-47.08 dBm	-34.08 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.94286 GHz	-44.86 dBm	-31.86 dB

Date: 1.JUN.2022 21:20:59

Middle Channel / 16QAM



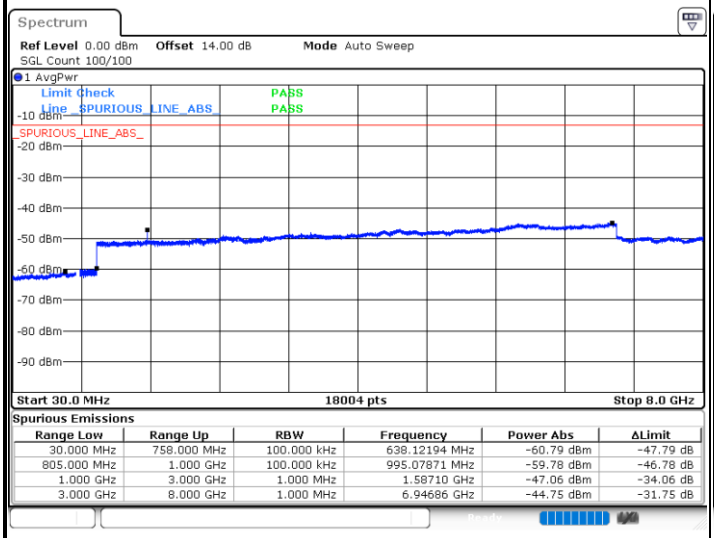
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	642.12394 MHz	-60.43 dBm	-47.43 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.53598 MHz	-59.64 dBm	-46.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58210 GHz	-47.08 dBm	-34.08 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.92986 GHz	-44.82 dBm	-31.82 dB

Date: 1.JUN.2022 21:19:32

LTE Band 14 / 5MHz

Highest Channel / QPSK

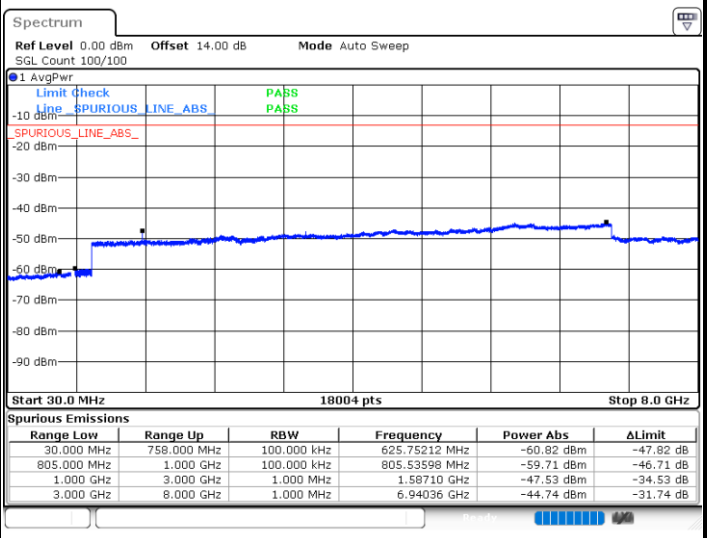


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	638.12194 MHz	-60.79 dBm	-47.79 dB
805.000 MHz	1.000 GHz	100.000 kHz	995.07871 MHz	-59.78 dBm	-46.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-47.06 dBm	-34.06 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.94686 GHz	-44.75 dBm	-31.75 dB

Date: 1.JUN.2022 21:32:04

Highest Channel / 16QAM



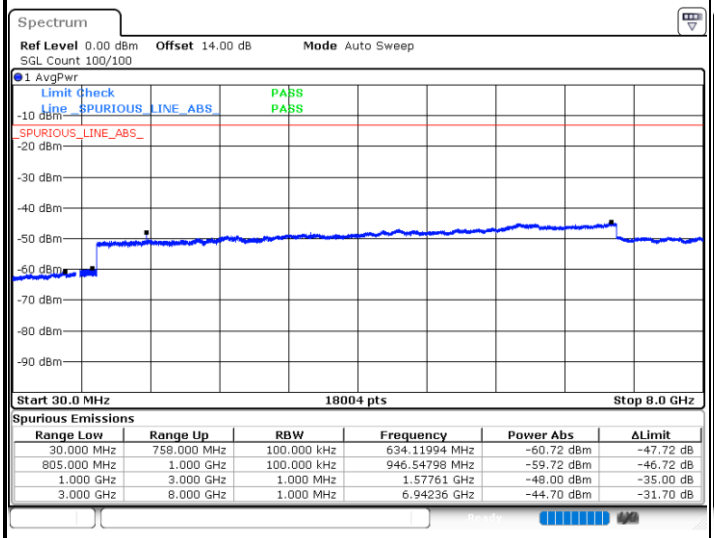
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	625.75212 MHz	-60.82 dBm	-47.82 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.53598 MHz	-59.71 dBm	-46.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-47.53 dBm	-34.53 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.94036 GHz	-44.74 dBm	-31.74 dB

Date: 1.JUN.2022 21:33:33

LTE Band 14 / 10MHz

Middle Channel / QPSK

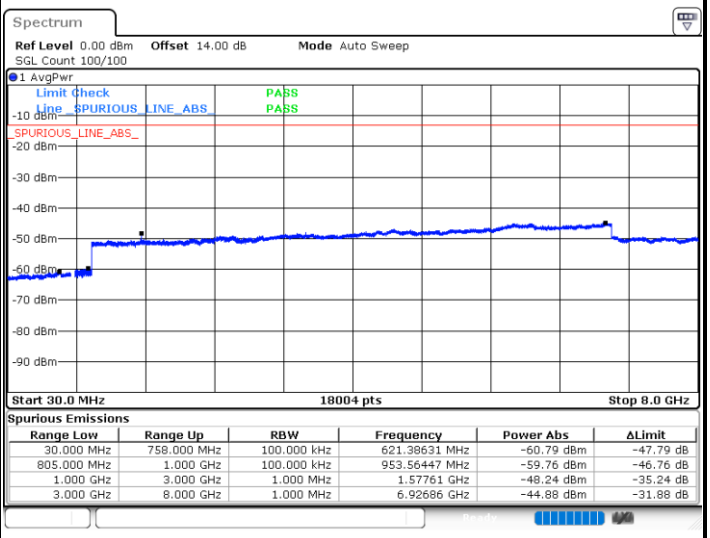


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	634.11994 MHz	-60.72 dBm	-47.72 dB
805.000 MHz	1.000 GHz	100.000 kHz	946.54798 MHz	-59.72 dBm	-46.72 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57761 GHz	-48.00 dBm	-35.00 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.94236 GHz	-44.70 dBm	-31.70 dB

Date: 1.JUN.2022 22:18:27

Middle Channel / 16QAM



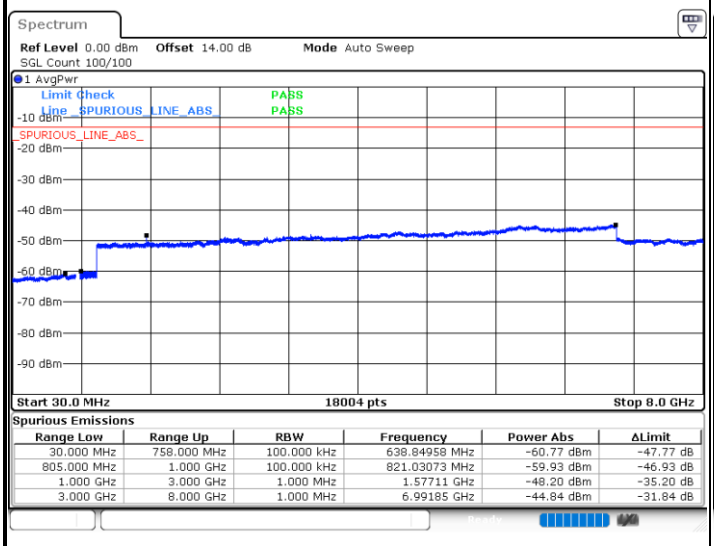
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	621.38631 MHz	-60.79 dBm	-47.79 dB
805.000 MHz	1.000 GHz	100.000 kHz	953.56447 MHz	-59.76 dBm	-46.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57761 GHz	-48.24 dBm	-35.24 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.92686 GHz	-44.88 dBm	-31.88 dB

Date: 1.JUN.2022 22:17:00

LTE Band 14 / 5MHz

Lowest Channel / 64QAM

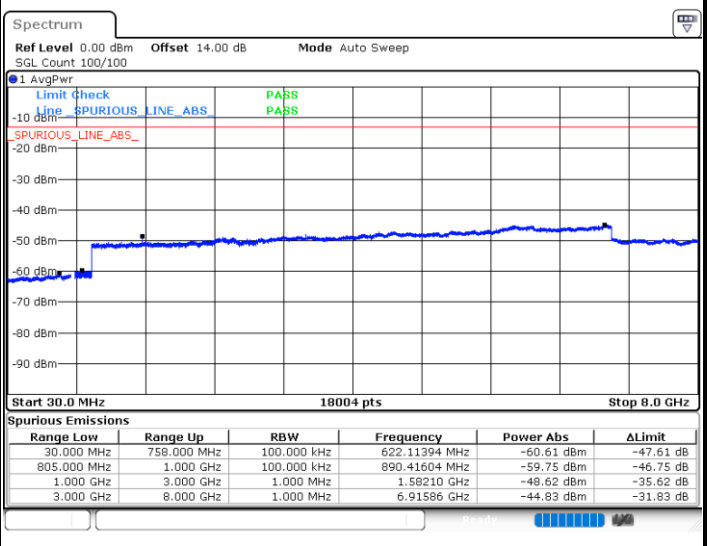


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	638.84958 MHz	-60.77 dBm	-47.77 dB
805.000 MHz	1.000 GHz	100.000 kHz	821.03073 MHz	-59.93 dBm	-46.93 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57711 GHz	-48.20 dBm	-35.20 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99185 GHz	-44.84 dBm	-31.84 dB

Date: 1.JUN.2022 21:56:24

Middle Channel / 64QAM

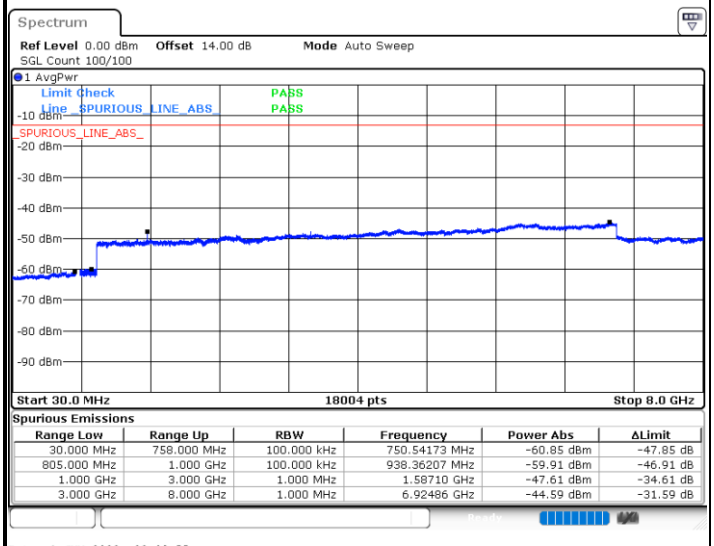


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	622.11394 MHz	-60.61 dBm	-47.61 dB
805.000 MHz	1.000 GHz	100.000 kHz	890.41604 MHz	-59.75 dBm	-46.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58210 GHz	-48.62 dBm	-35.62 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.91586 GHz	-44.83 dBm	-31.83 dB

Date: 1.JUN.2022 21:57:51

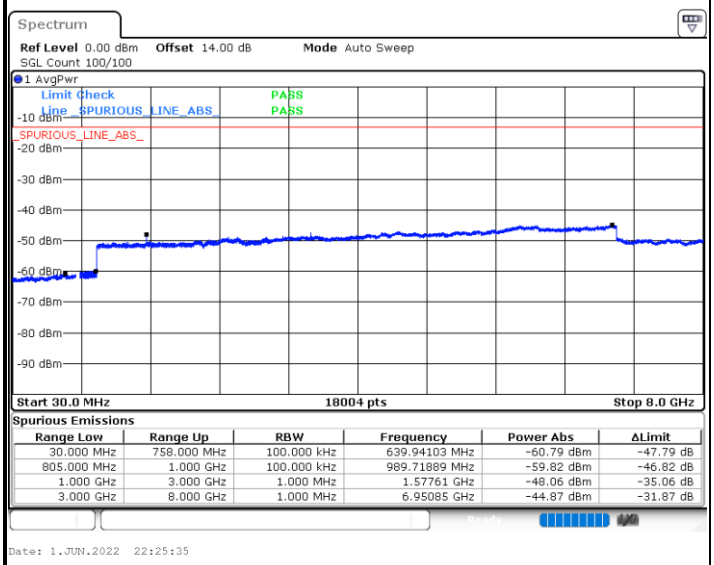
Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	750.54173 MHz	-60.85 dBm	-47.85 dB
805.000 MHz	1.000 GHz	100.000 kHz	938.36207 MHz	-59.91 dBm	-46.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-47.61 dBm	-34.61 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.92486 GHz	-44.59 dBm	-31.59 dB

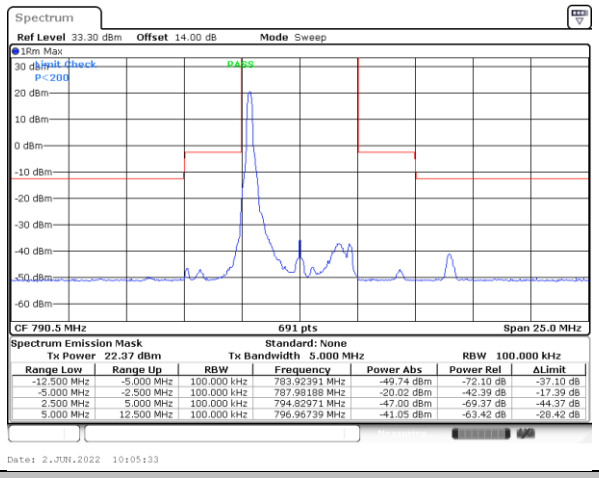
Date: 1.JUN.2022 22:03:55

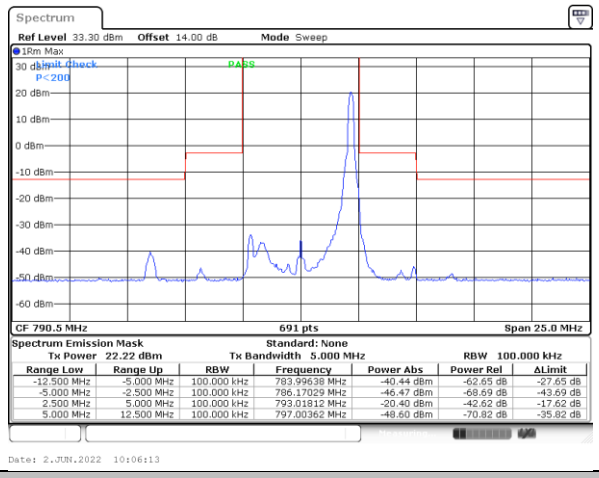
LTE Band 14 / 10MHz	
Middle Channel / 64QAM	
	

Mask

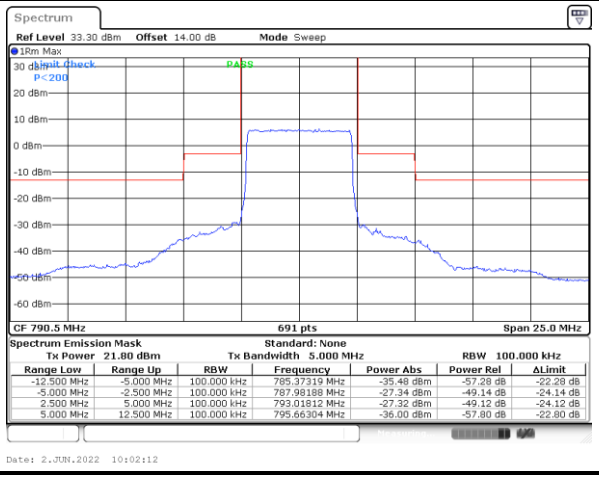
LTE Band 14 / 5MHz / QPSK

Lowest Channel / 1RB



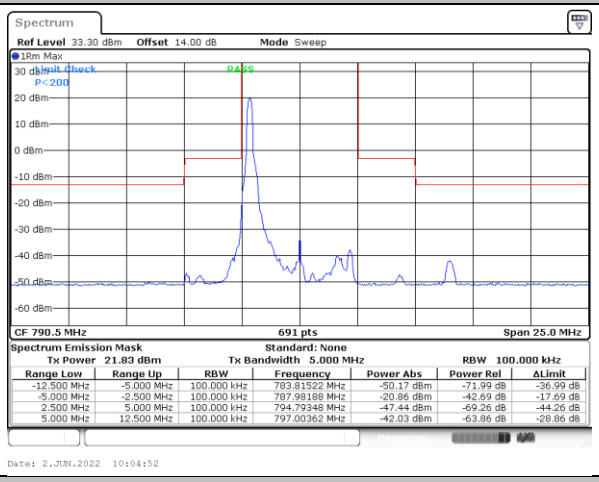


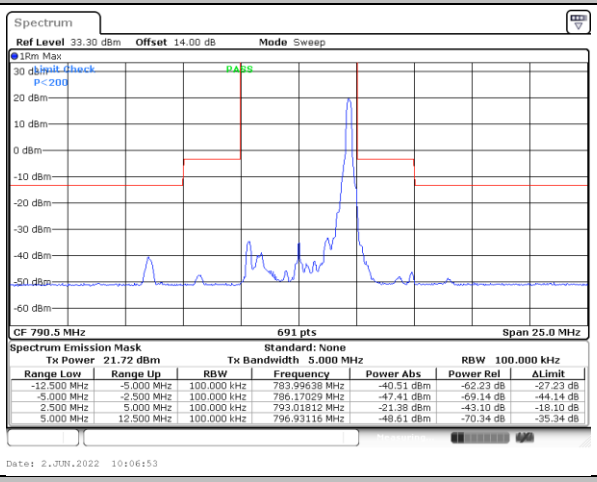
Lowest Channel / Full RB



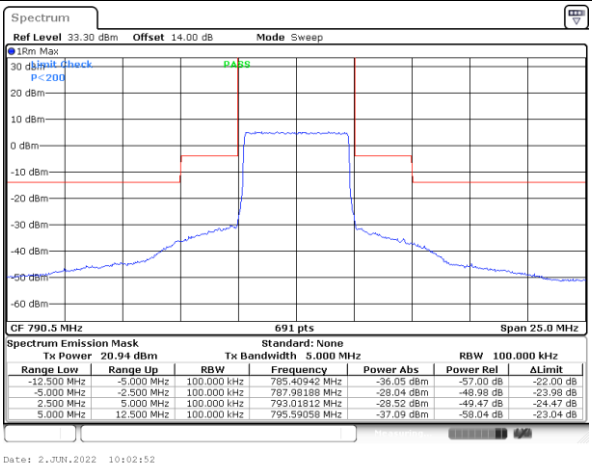
LTE Band 14 / 5MHz / 16QAM

Lowest Channel / 1RB



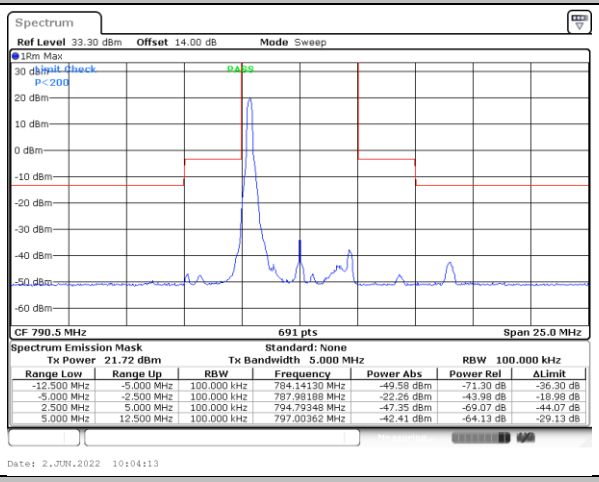


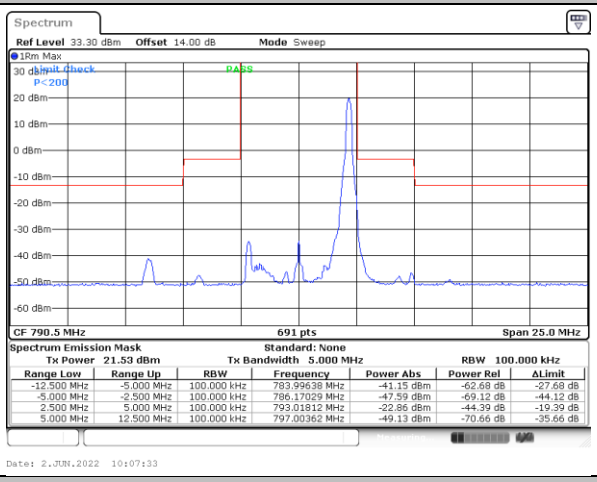
Lowest Channel / Full RB



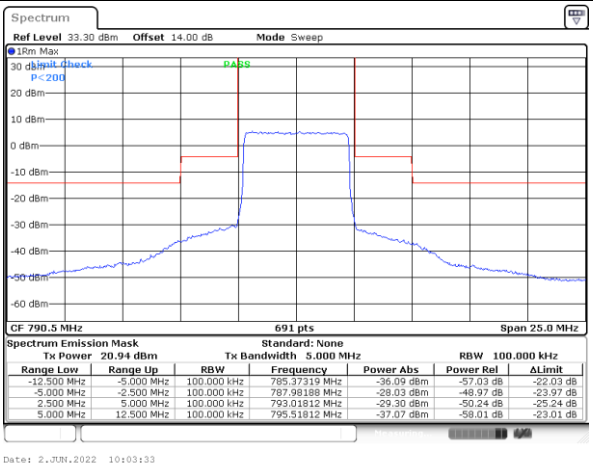
LTE Band 14 / 5MHz / 64QAM

Lowest Channel / 1RB



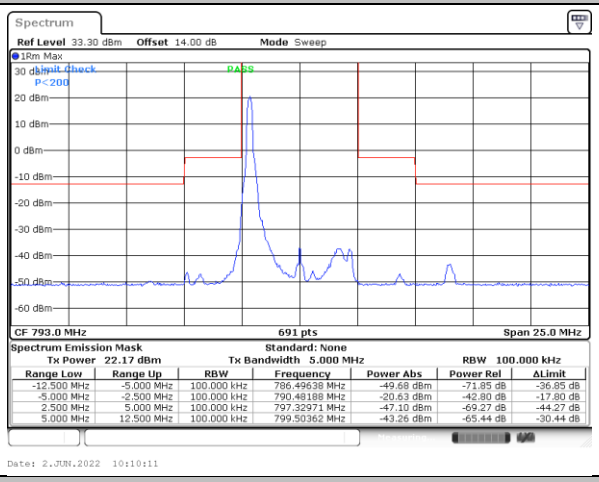


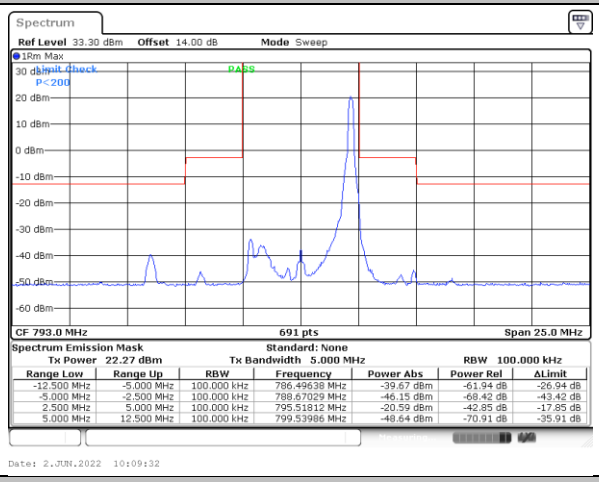
Lowest Channel / Full RB



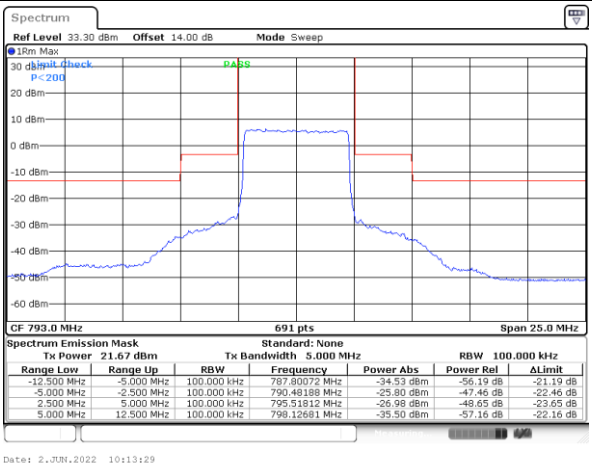
LTE Band 14 / 5MHz / QPSK

Middle Channel / 1RB



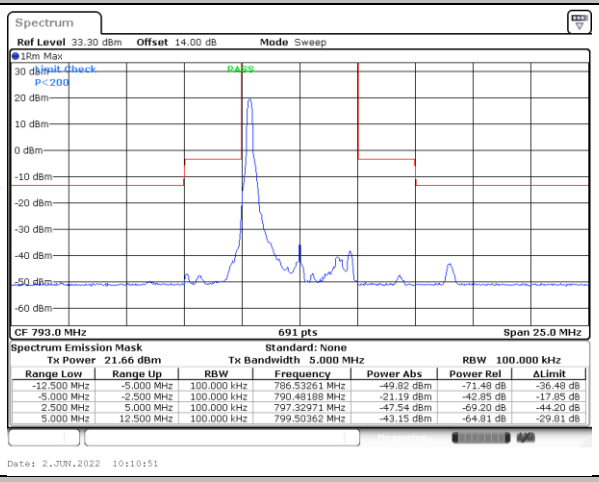


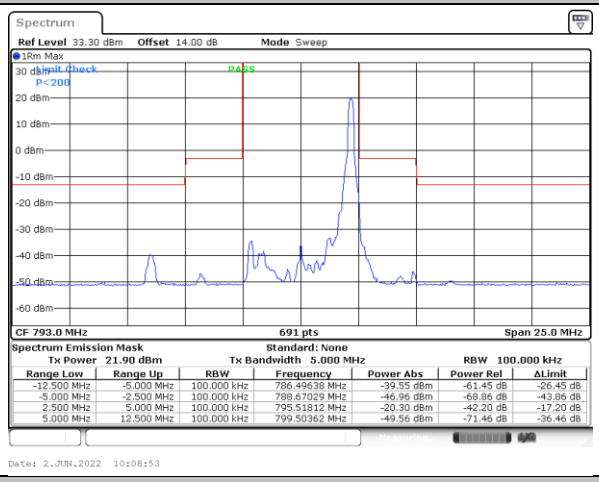
Middle Channel / Full RB



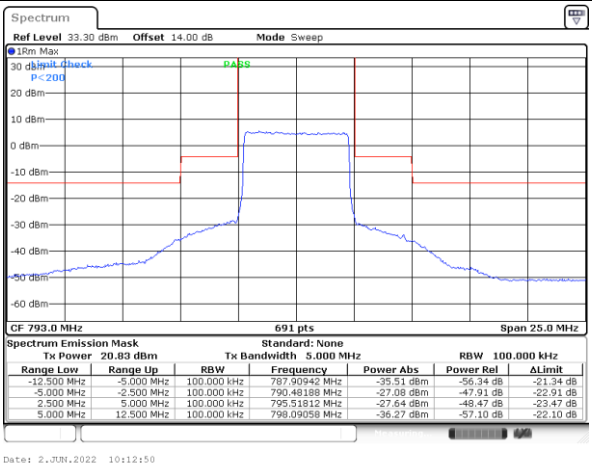
LTE Band 14 / 5MHz / 16QAM

Middle Channel / 1RB



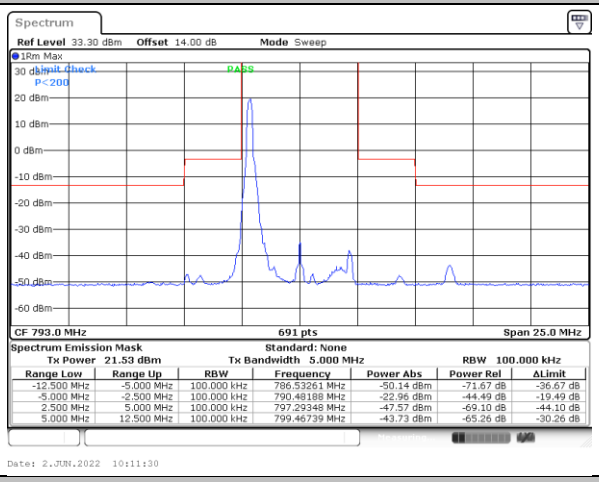


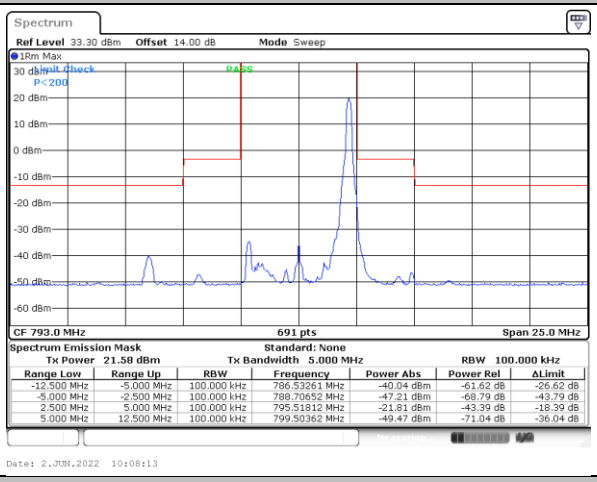
Middle Channel / Full RB



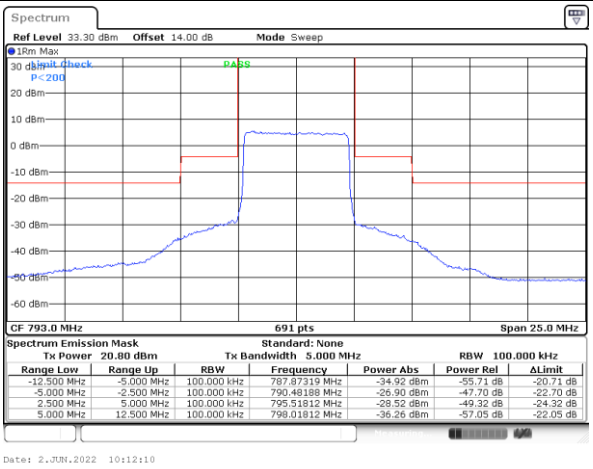
LTE Band 14 / 5MHz / 64QAM

Middle Channel / 1RB



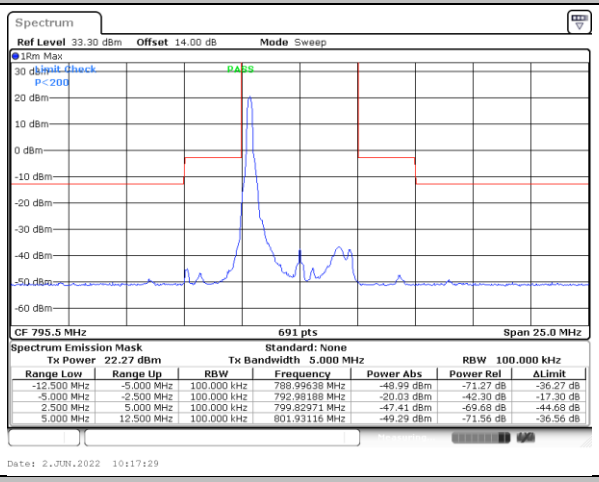


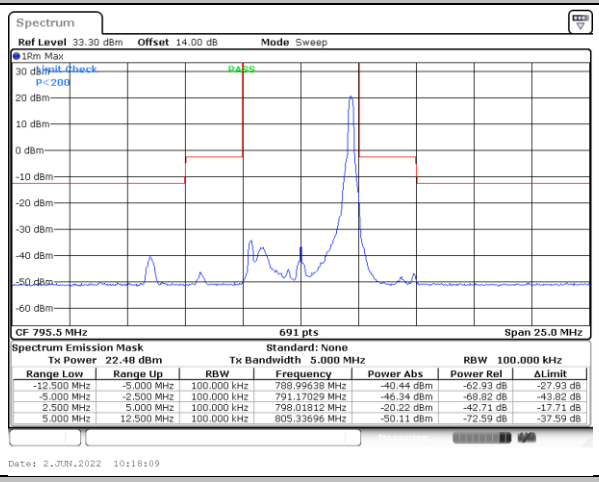
Middle Channel / Full RB



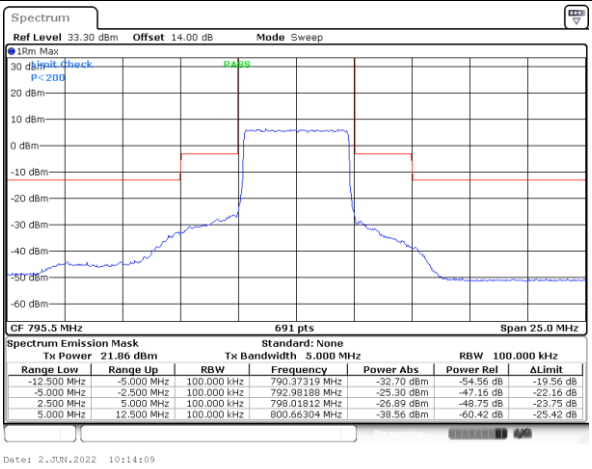
LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB



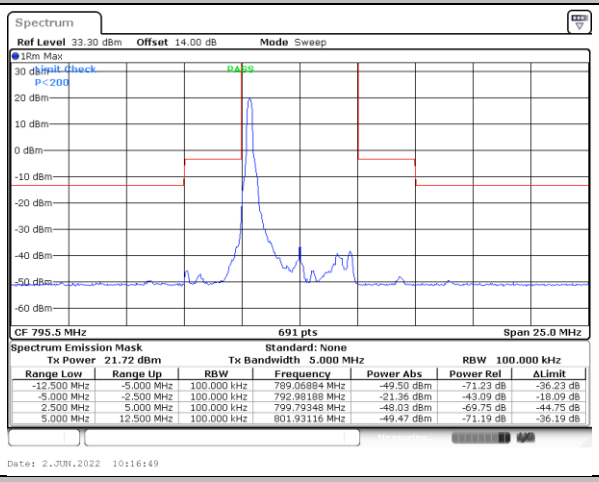


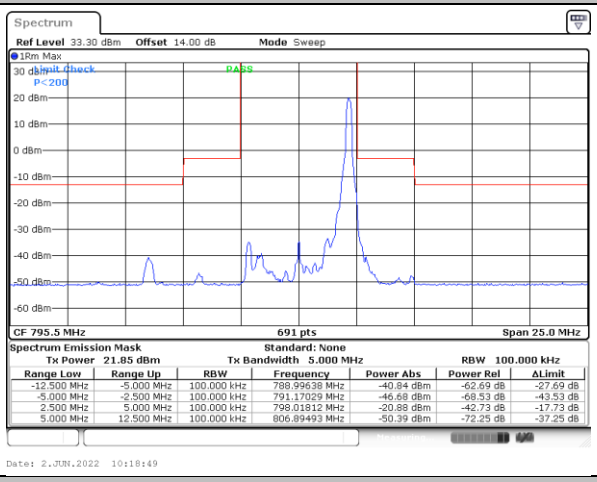
Highest Channel / Full RB



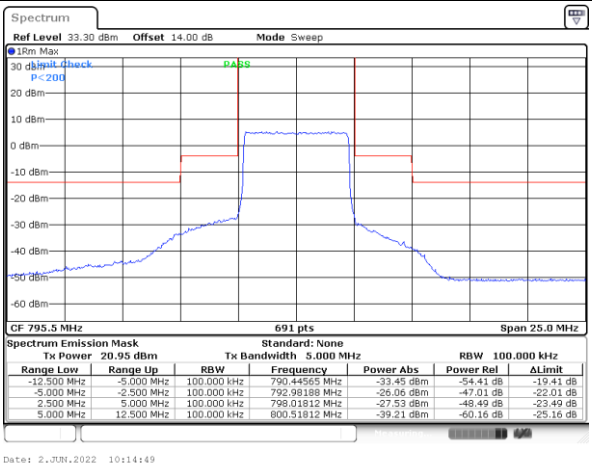
LTE Band 14 / 5MHz / 16QAM

Highest Channel / 1RB



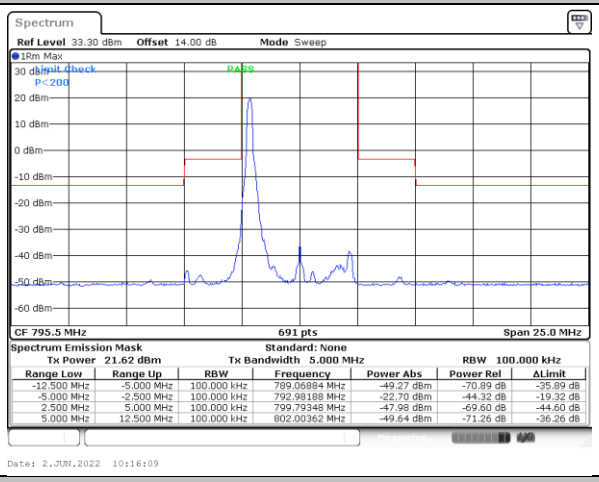


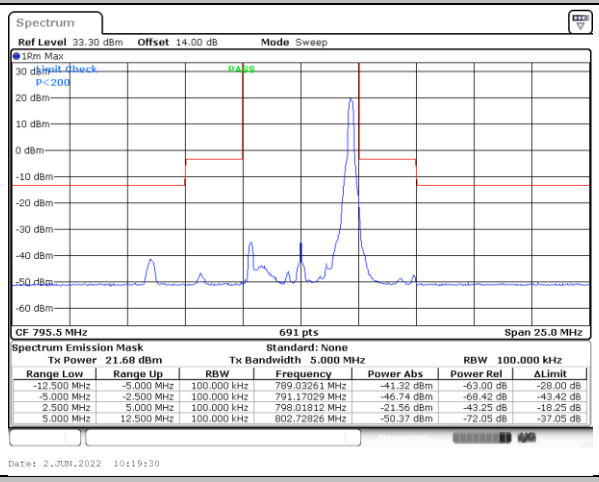
Highest Channel / Full RB



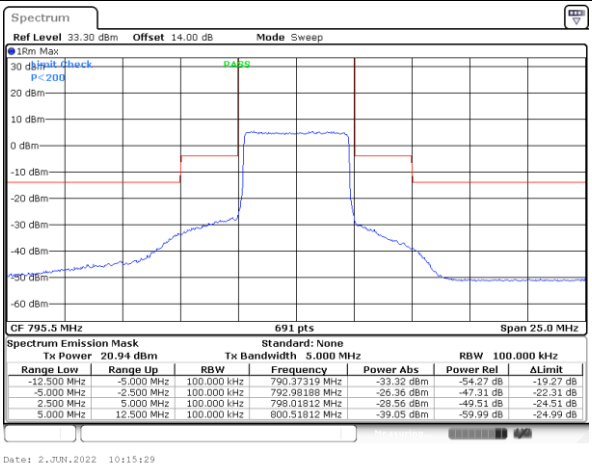
LTE Band 14 / 5MHz / 64QAM

Highest Channel / 1RB



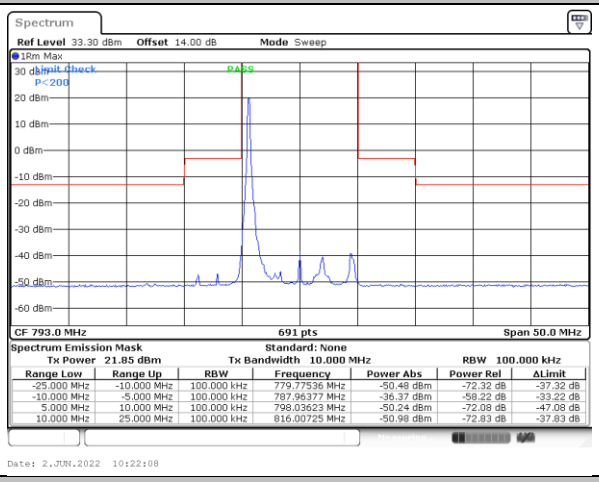


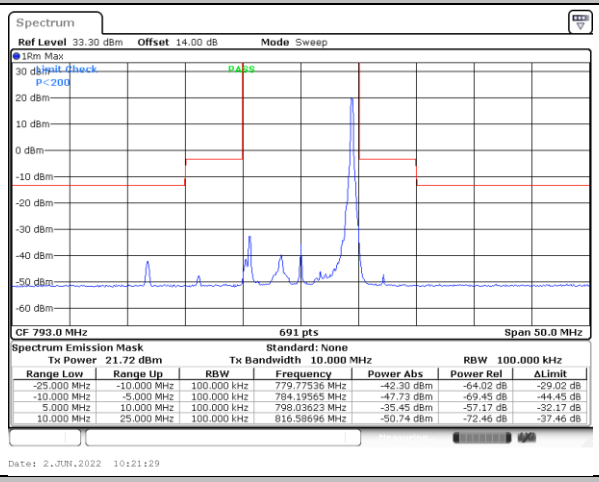
Highest Channel / Full RB



LTE Band 14 / 10MHz / QPSK

Middle Channel / 1RB





Middle Channel / Full RB