FCC RF Test Report

APPLICANT	:	Relay, Inc.
EQUIPMENT	:	Relay
BRAND NAME	:	Relay
MODEL NAME	:	RY2268
FCC ID	:	2AMBHRY2268
STANDARD	:	47 CFR Part 2, and 90(S)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Dec. 12, 2023 ~ Mar. 06, 2024

We, Sporton International Inc. (Kunshan), 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.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen).

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

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG250507D	Rev. 01	Initial issue of report	May 30, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	—	Report only	-
3.2	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	—	Report only	-
3.3	§2.1051 §90.691	Emission masks – In-band emissions	< 50+10log$_{10}$(P[Watts])	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log$_{10}$(P[Watts])	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 47.66 dB at 2440.000 MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Relay, Inc.
4200 Six Forks Rd, Suite 1800, Raleigh, NC 27609, USA

1.2 Manufacturer

Relay, Inc.
4200 Six Forks Rd, Suite 1800, Raleigh, NC 27609, USA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Relay
Brand Name	Relay
Model Name	RY2268
FCC ID	2AMBHRY2268
IMEI Code	Conducted: 004400152020000 Radiation: 990007570009388/990007570004066
HW Version	v01
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 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	814 ~ 824 MHz
Rx Frequency	859 ~ 869 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
Maximum Output Power to Antenna	<Ant.1>: 23.97 dBm
Antenna Gain	<Ant.1>: -0.01 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum Conducted Power and Emission Designator

LTE Band 26		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power(W)	Emission Designator (99%OBW)	Maximum Conducted power(W)	Emission Designator (99%OBW)
1.4	814.7 ~ 823.3	0.2495	1M10G7D	0.1936	1M09W7D
3	815.5 ~ 822.5	0.2455	2M72G7D	0.1982	2M73W7D
5	816.5 ~ 821.5	0.2443	4M51G7D	0.1968	4M50W7D
10	819.0	0.2495	9M01G7D	0.1954	9M05W7D
15	824	0.2443	13M4G7D	0.1986	13M4W7D

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

1.7 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-KS	CN1257	314309

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 data subcontracted: Conducted test cases in section 3.1~3.4&3.6 of this report.

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	210616

1.9 Applied Standards

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

- 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

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

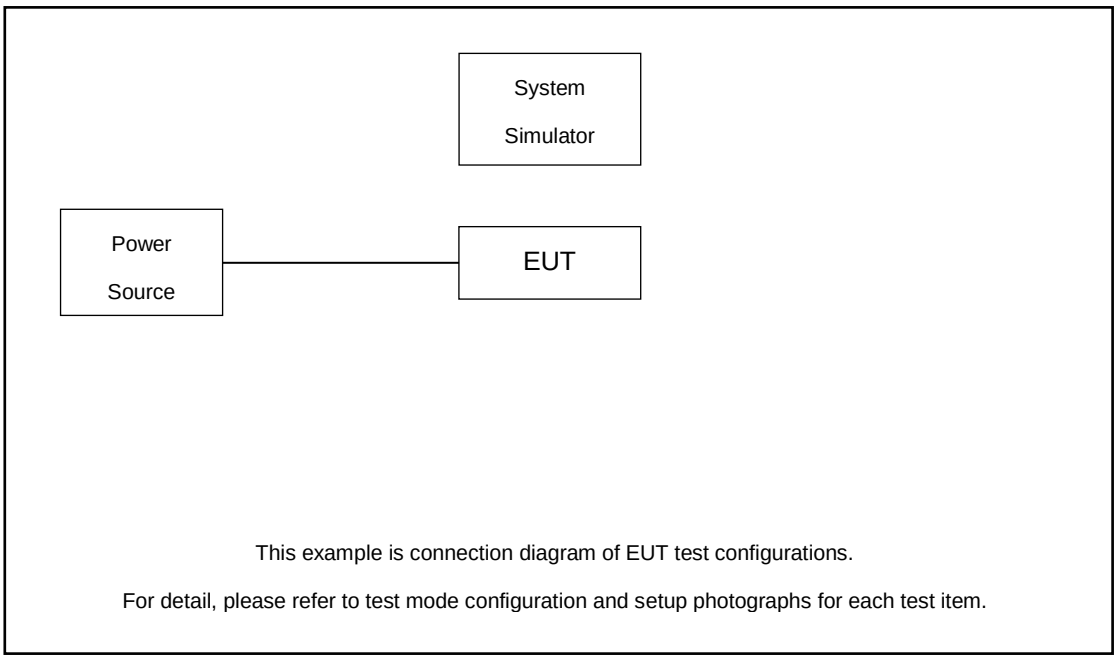
2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission. (Y Plane)

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	H
Max. Output Power	26	v	v	v	v	v	-	v	v	v	-	v		v	v	v	v
26dB and 99% Bandwidth	26	v	v	v	v	v	-	v	v		-			v		v	
Emission masks In-band emissions	26	v	v	v	v	v	-	v	v	v	-	v		v	v		v
Emission masks – Out of band emissions	26	v	v	v	v	v	-	v			-	v			v	v	v
Frequency Stability	26				v		-	v			-			v		v	
Radiated Spurious Emission	26				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. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies.																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

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.

Following shows an offset computation example with cable loss 4.0 dB and 10dB attenuator.

Example :

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

= 4.0 + 10 = 14.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	26740	-
	Frequency	-	819	-
5	Channel	26715	26740	26765
	Frequency	816.5	819	821.5
3	Channel	26705	26740	26775
	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819	823.3

LTE Band 26 Cross-rule Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**-**	**Middle**	**-**
15	Channel	-	26790	-
	Frequency	-	824	-
10	Channel	-	26790	-
	Frequency	-	824	-
5	Channel	-	26790	-
	Frequency	-	824	-
3	Channel	-	26790	-
	Frequency	-	824	-
1.4	Channel	-	26790	-
	Frequency	-	824	-

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

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

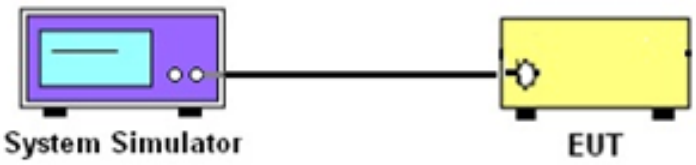
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 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.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.2.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% 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 emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

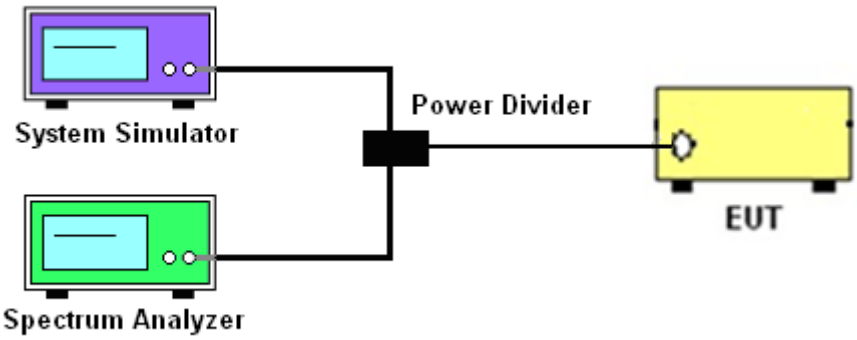
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

3.2.4 Test Setup



3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A.

3.3 Emissions Mask Measurement

3.3.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a):

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 $Log_{10}(f/6.1)$ decibels or 50 + 10 $Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + $10Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

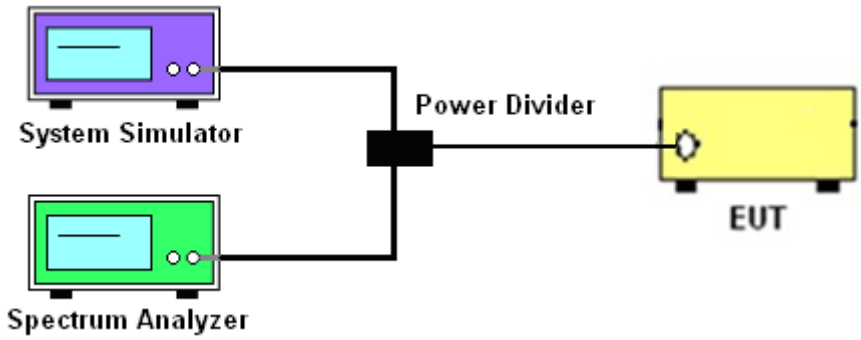
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor 10log (1% of OBW/measured RBW)(dB) was compensated, if required.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

3.3.4 Test Setup



3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.

3.4 Emissions Mask – Out Of Band Emissions Measurement

3.4.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least 43 + 10 log (P) dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

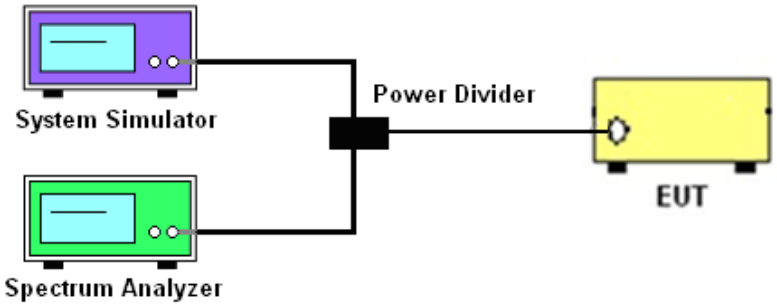
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a 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 RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.4.4 Test Setup



3.4.5 Test Result (Plots) of Conducted Emission

Please refer to Appendix A.

3.5 Field Strength of Spurious Radiation Measurement

3.5.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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 $43+10\log_{10}(P[Watts])$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.5.2 Measuring Instruments

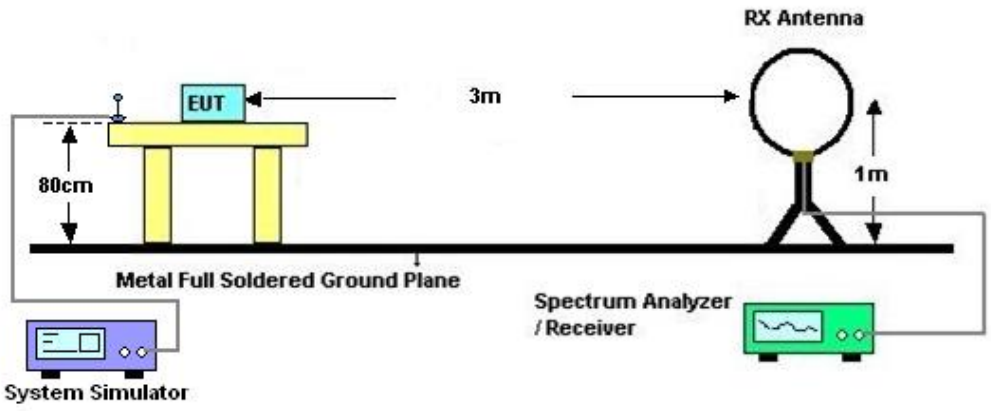
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

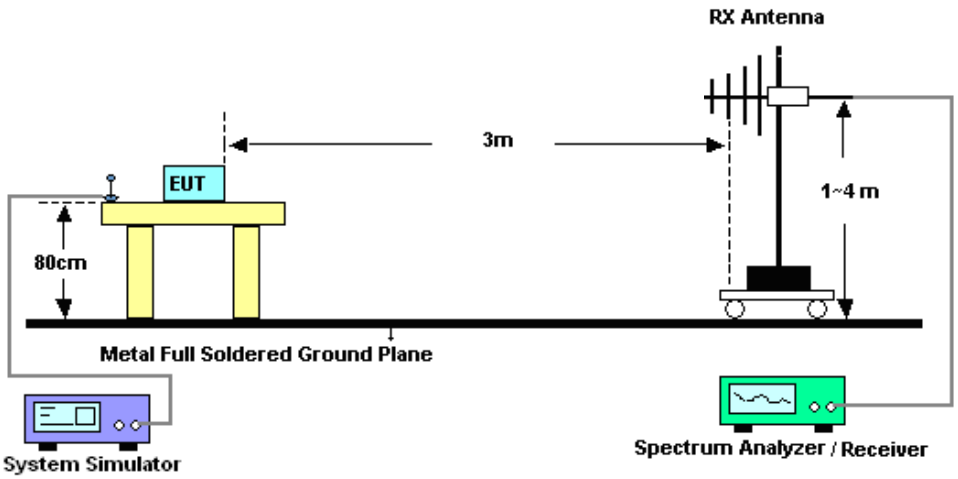
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. 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.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
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.
13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

3.5.4 Test Setup

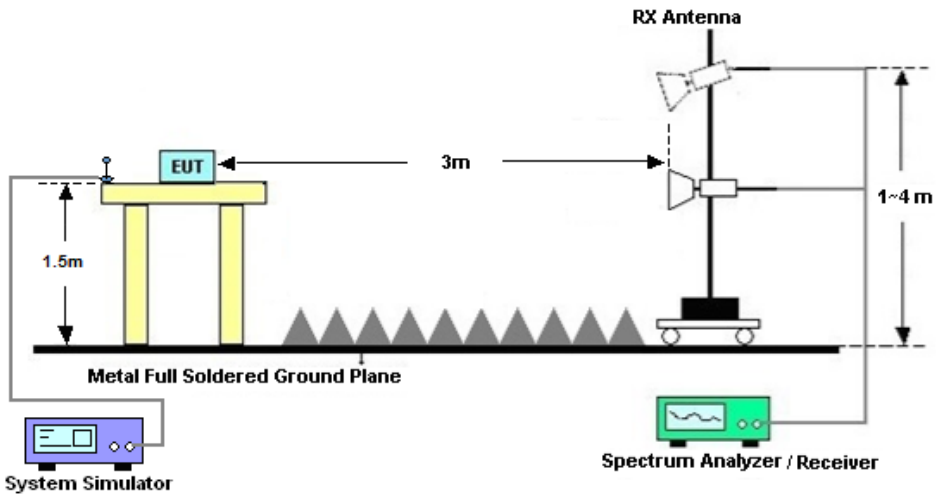
For radiated test from 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.5.5 Test Result of Field Strength of Spurious Radiated

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.

3.6 Frequency Stability Measurement

3.6.1 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 ±0.00025% (±2.5ppm) of the center frequency according to FCC Part 90.213.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

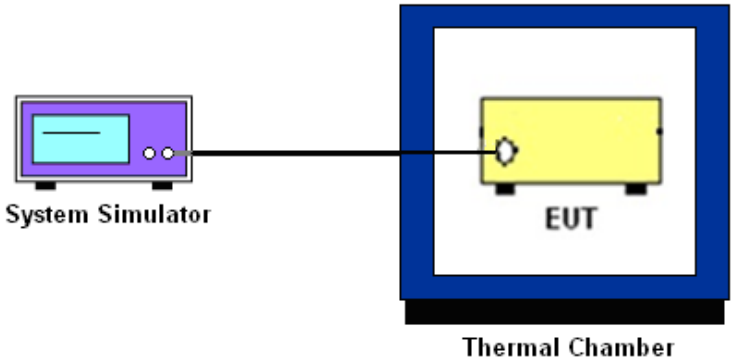
3.6.3 Test Procedures for Temperature Variation

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 for three hours. 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.

3.6.4 Test Procedures for Voltage Variation

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

3.6.5 Test Setup



3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.

4 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. 06, 2023	Dec. 12, 2023 ~ Dec. 13, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 16, 2023	Dec. 12, 2023 ~ Dec. 13, 2023	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2022	Dec. 12, 2023 ~ Dec. 13, 2023	Dec. 24, 2023	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Dec. 12, 2023 ~ Dec. 13, 2023	Jul. 04, 2024	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 10, 2023	Mar. 06, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Mar. 06, 2024	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Mar. 06, 2024	Apr. 08, 2024	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 10, 2023	Mar. 06, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Mar. 06, 2024	Jul. 05, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 10, 2023	Mar. 06, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 10, 2023	Mar. 06, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 06, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 06, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 06, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

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 Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Frequency Stability	±1.3 Hz

Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.82dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.56dB

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Hank Lin	Temperature :	24~26℃
		Relative Humidity :	50~53%

Conducted Output Power (Average power)

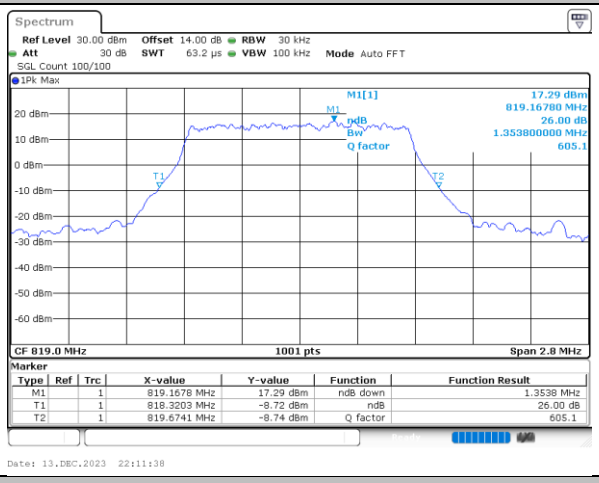
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power (W)		
Channel					26790				
Frequency (MHz)					824		L	M	H
15	QPSK	1	0		23.88			0.2443	
15	QPSK	1	74		23.84			0.2421	
15	QPSK	75	0		22.95			0.1972	
15	16QAM	1	0		22.98			0.1986	
15	64QAM	1	0		21.89			0.1545	
Channel					26740		Power (W)		
Frequency (MHz)					819			M	
10	QPSK	1	0		23.97			0.2495	
10	QPSK	1	49		23.66			0.2323	
10	QPSK	50	0		22.81			0.1910	
10	16QAM	1	0		22.91			0.1954	
10	64QAM	1	0		21.89			0.1545	
Channel				26715	26740	26765	Power (W)		
Frequency (MHz)				816.5	819	821.5	L	M	H
5	QPSK	1	0	23.73	23.88	23.84	0.2360	0.2443	0.2421
5	16QAM	1	0	22.93	22.94	22.82	0.1963	0.1968	0.1914
Channel				26705	26740	26775	Power (W)		
Frequency (MHz)				815.5	819	822.5	L	M	H
3	QPSK	1	0	23.81	23.90	23.86	0.2404	0.2455	0.2432
3	16QAM	1	0	22.85	22.97	22.81	0.1928	0.1982	0.1910
Channel				26697	26740	26783	Power (W)		
Frequency (MHz)				814.7	819	823.3	L	M	H
1.4	QPSK	1	0	23.71	23.97	23.83	0.2350	0.2495	0.2415
1.4	16QAM	1	0	22.71	22.87	22.67	0.1866	0.1936	0.1849

26dB Bandwidth

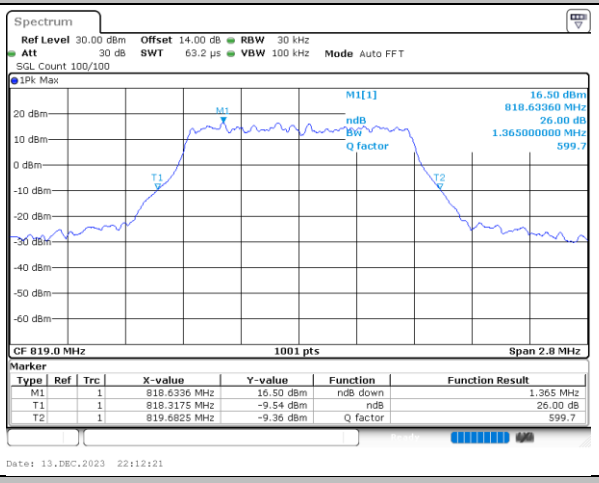
Mode	LTE Band 26 : 26dB BW(MHz)									
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.35	1.37	3.10	3.06	5.04	5.05	9.97	9.79	14.51	14.63

LTE Band 26

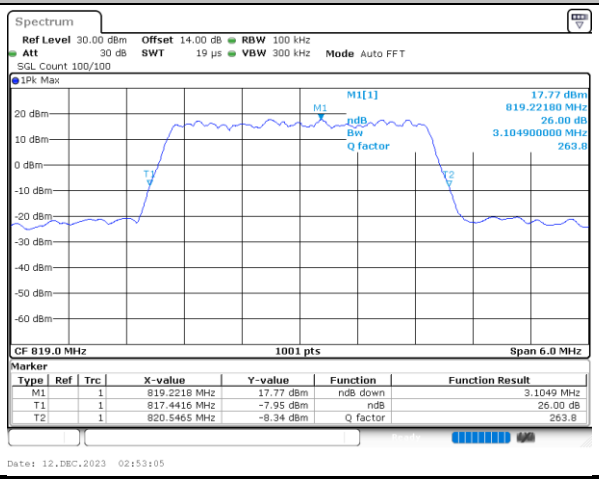
Middle Channel / 1.4MHz / QPSK



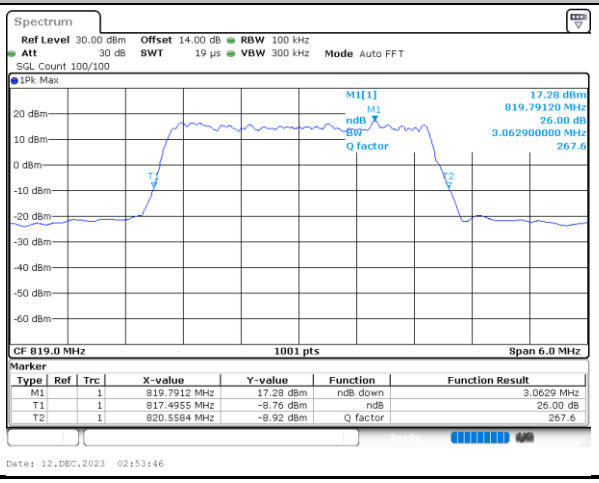
Middle Channel / 1.4MHz / 16QAM



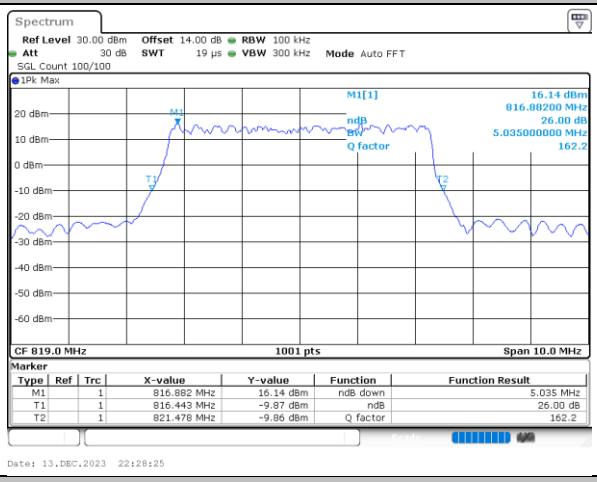
Middle Channel / 3MHz / QPSK



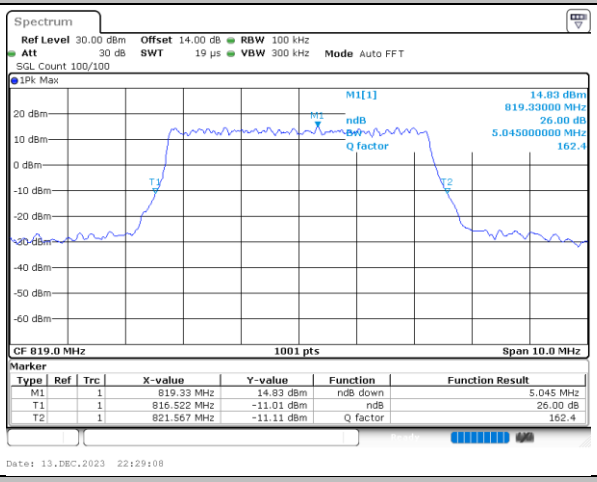
Middle Channel / 3MHz / 16QAM



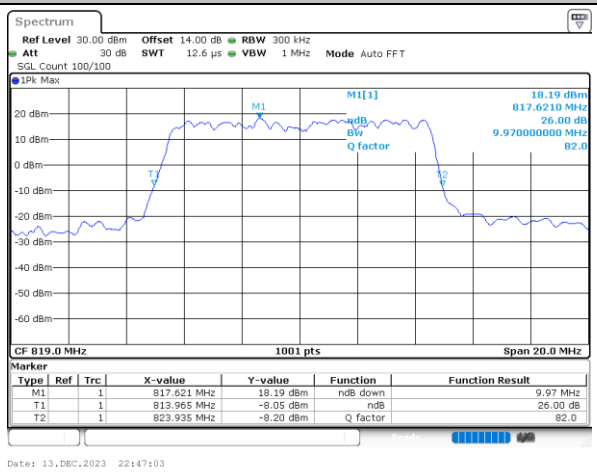
Middle Channel / 5MHz / QPSK



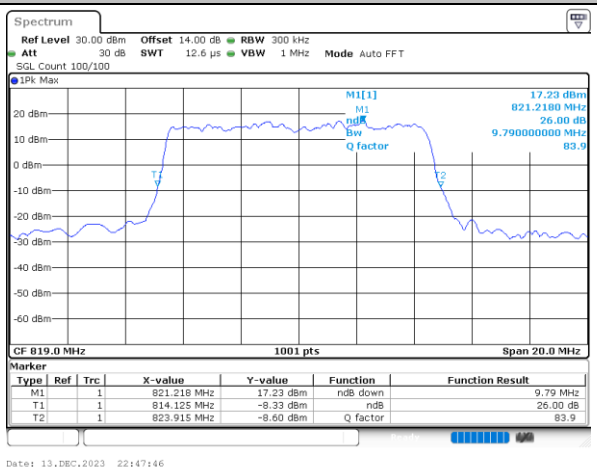
Middle Channel / 5MHz / 16QAM



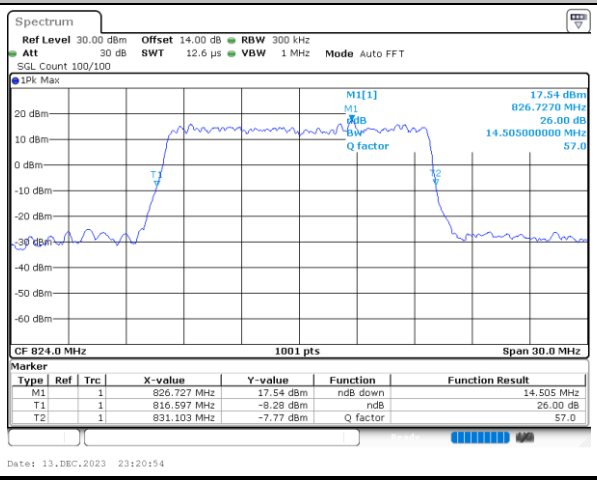
Middle Channel / 10MHz / QPSK



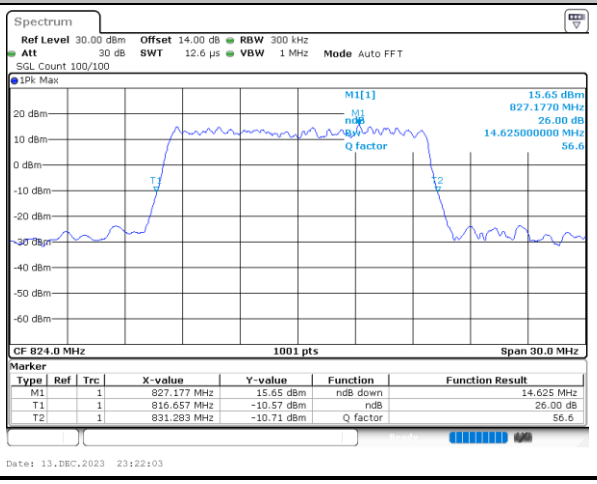
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM

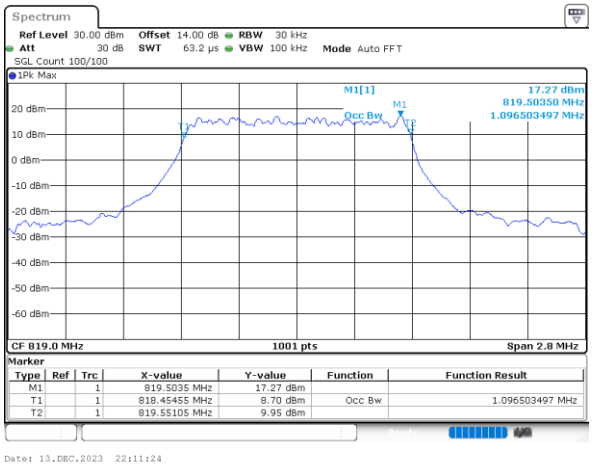


Occupied Bandwidth

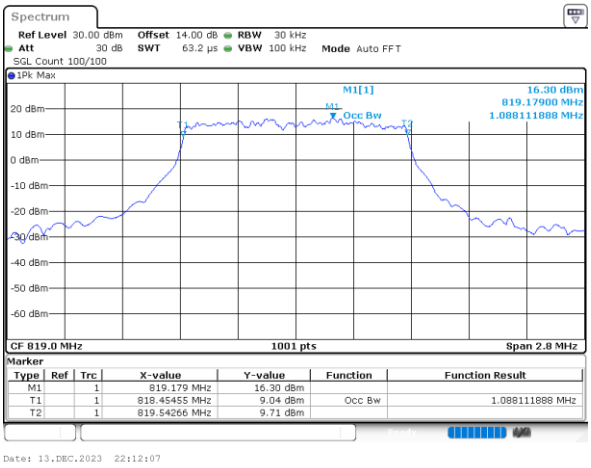
Mode	LTE Band 26 : 99%OBW(MHz)									
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.10	1.09	2.72	2.73	4.51	4.50	9.01	9.05	13.43	13.43

LTE Band 26

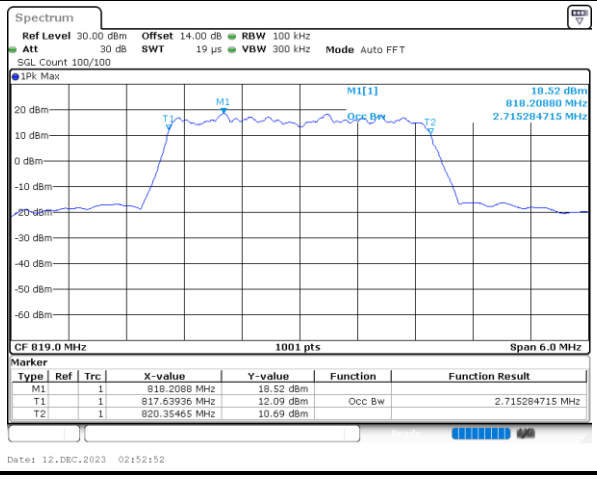
Middle Channel / 1.4MHz / QPSK



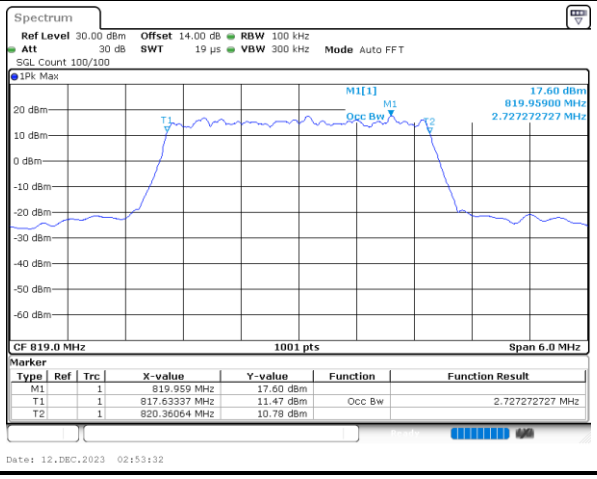
Middle Channel / 1.4MHz / 16QAM



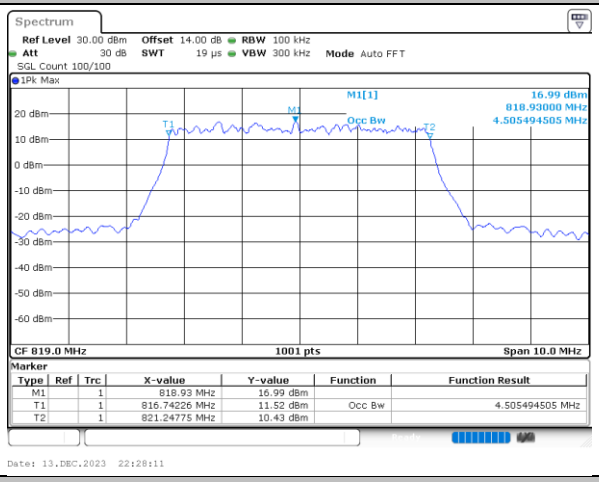
Middle Channel / 3MHz / QPSK



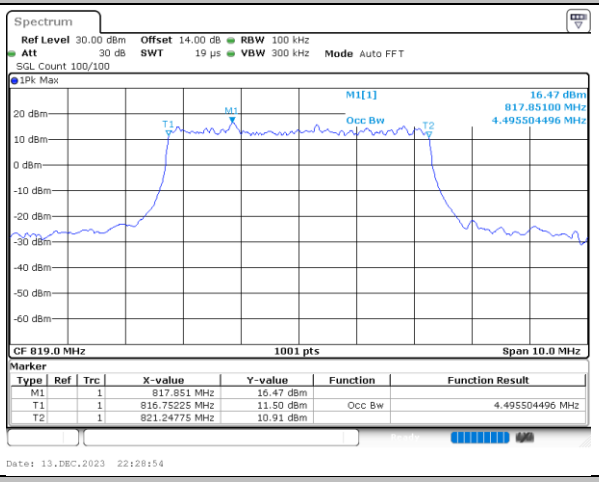
Middle Channel / 3MHz / 16QAM



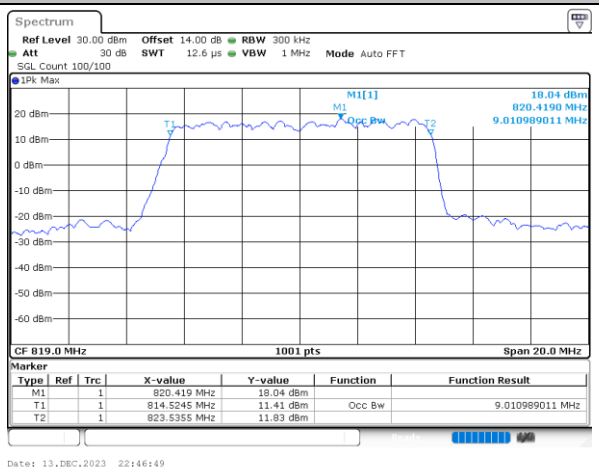
Middle Channel / 5MHz / QPSK



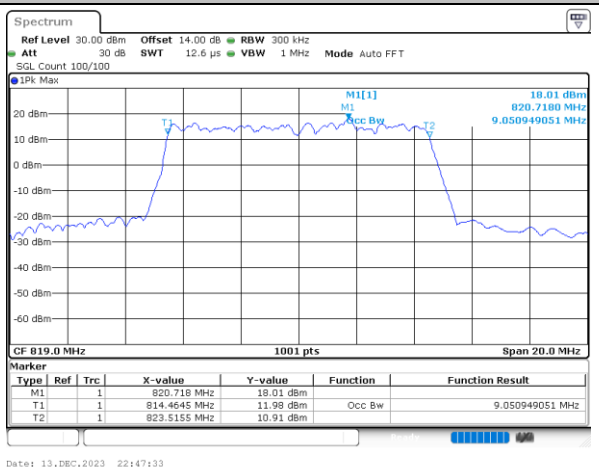
Middle Channel / 5MHz / 16QAM



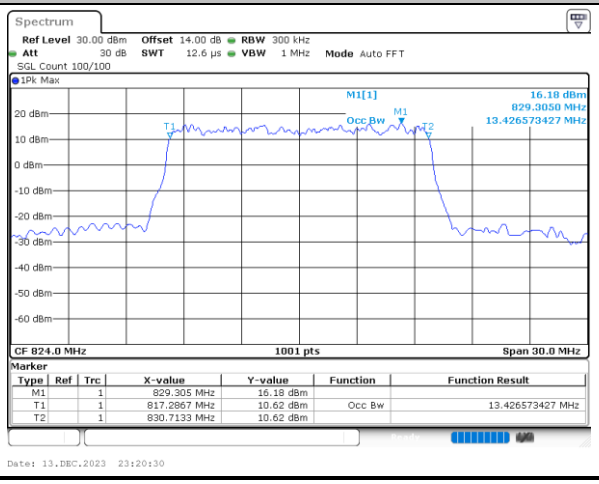
Middle Channel / 10MHz / QPSK



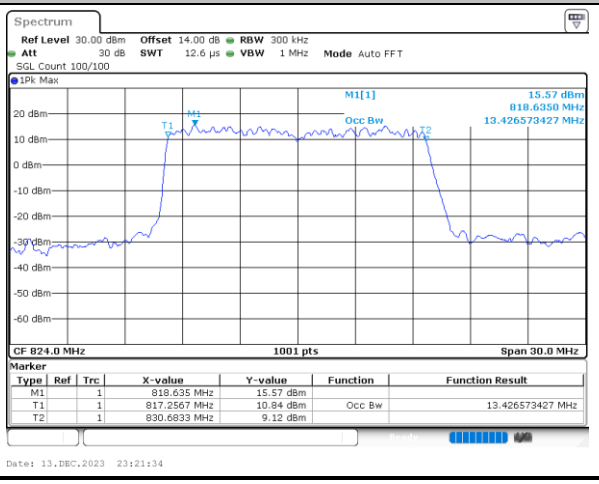
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



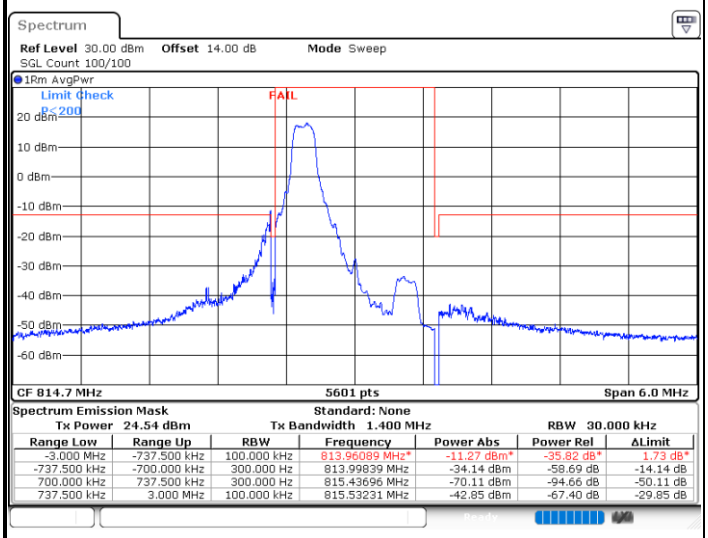
Middle Channel / 15MHz / 16QAM



Emission masks – In-band emissions

LTE Band 26 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

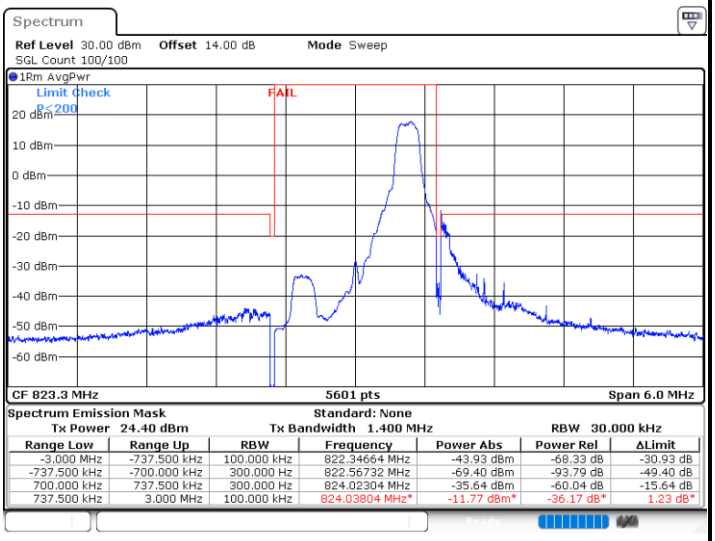


Spectrum Emission Mask Standard: None
Tx Power 24.54 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	813.96089 MHz*	-11.27 dBm*	-35.82 dB*	1.73 dB*
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99839 MHz	-34.14 dBm	-58.69 dB	-14.14 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.43696 MHz	-70.11 dBm	-94.66 dB	-50.11 dB
737.500 kHz	3.000 MHz	100.000 kHz	815.53231 MHz	-42.85 dBm	-67.40 dB	-29.85 dB

Date: 13.DEC.2023 22:03:35

Highest Band Edge / 1RB

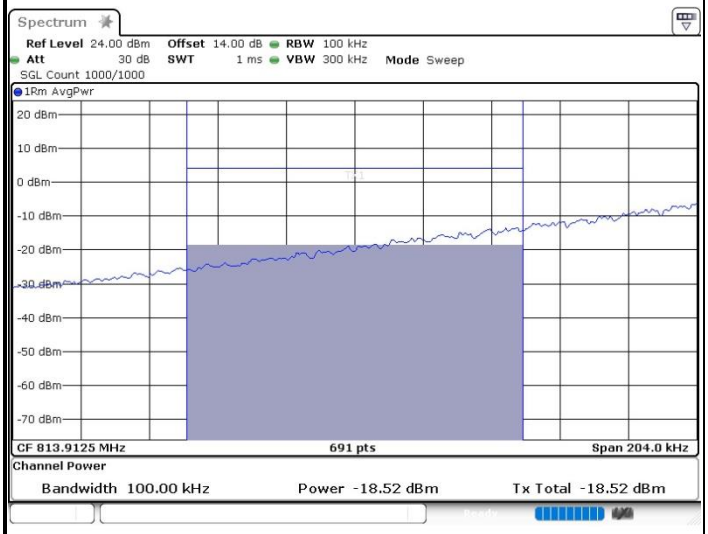


Spectrum Emission Mask Standard: None
Tx Power 24.40 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	822.34664 MHz	-43.93 dBm	-68.33 dB	-30.93 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.56732 MHz	-69.40 dBm	-93.79 dB	-49.40 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.02304 MHz	-35.64 dBm	-60.04 dB	-15.64 dB
737.500 kHz	3.000 MHz	100.000 kHz	824.03804 MHz*	-11.77 dBm*	-36.17 dB*	1.23 dB*

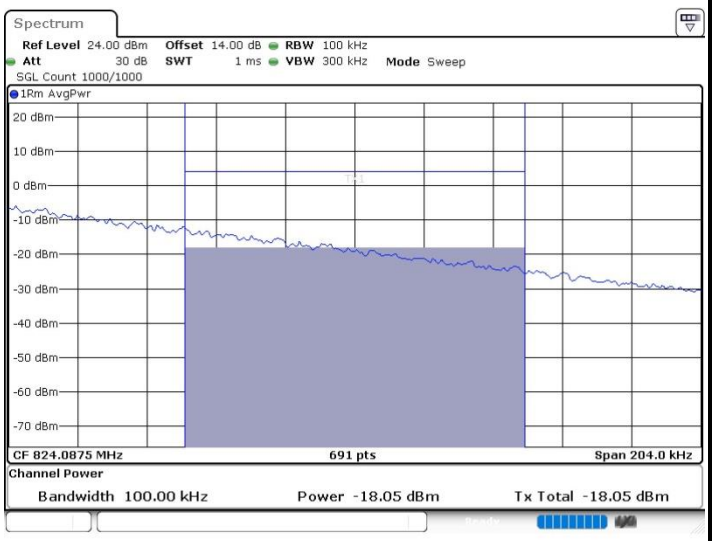
Date: 13.DEC.2023 22:13:18

Lowest Band Edge / 1RB-CP



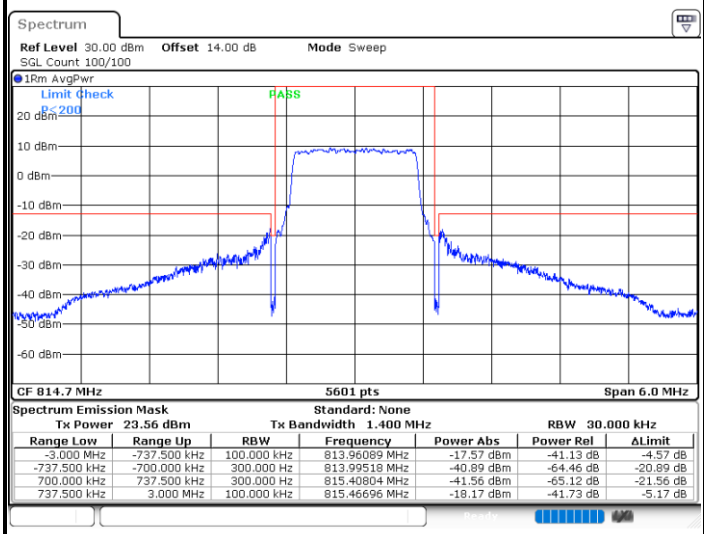
Date: 13.DEC.2023 23:10:25

Highest Band Edge / 1RB-CP



Date: 13.DEC.2023 23:14:37

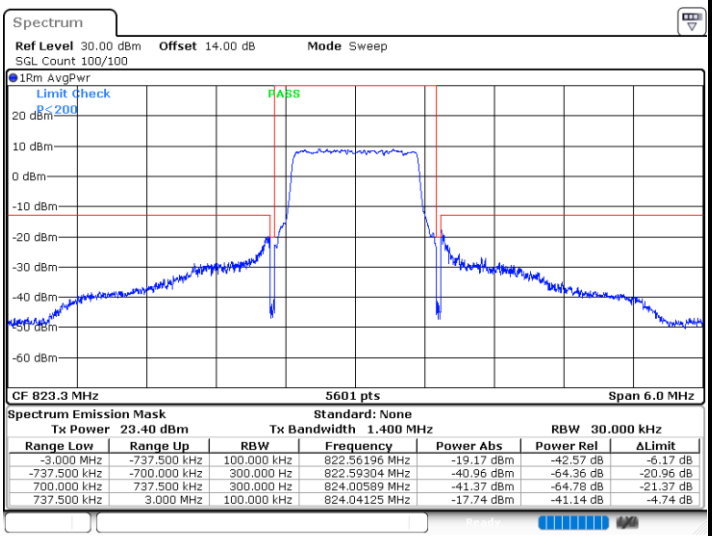
Lowest Band Edge / Full RB	Highest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 23.56 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	813.96089 MHz	-17.57 dBm	-41.13 dB	-4.57 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99518 MHz	-40.89 dBm	-64.46 dB	-20.89 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40804 MHz	-41.56 dBm	-65.12 dB	-21.56 dB
737.500 kHz	3.000 MHz	100.000 kHz	815.46696 MHz	-18.17 dBm	-41.73 dB	-5.17 dB

Date: 13.DEC.2023 22:08:25



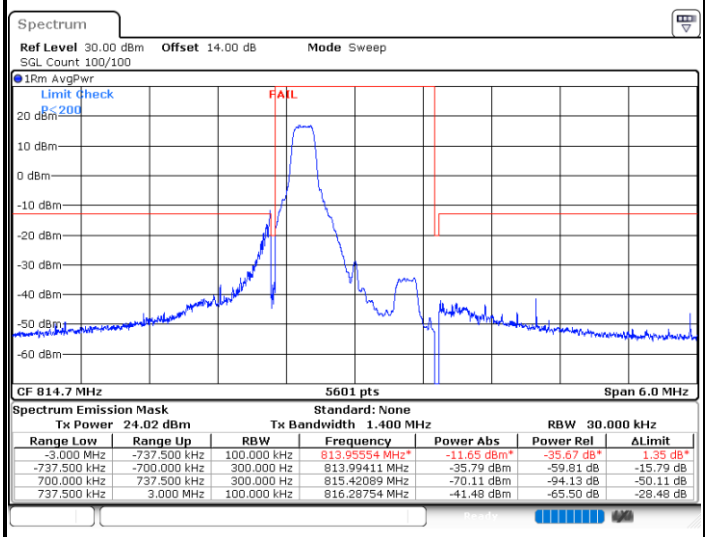
Spectrum Emission Mask Standard: None
Tx Power 23.40 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	822.56196 MHz	-19.17 dBm	-42.57 dB	-6.17 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.59304 MHz	-40.96 dBm	-64.36 dB	-20.96 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00589 MHz	-41.37 dBm	-64.78 dB	-21.37 dB
737.500 kHz	3.000 MHz	100.000 kHz	824.04125 MHz	-17.74 dBm	-41.14 dB	-4.74 dB

Date: 13.DEC.2023 22:18:08

LTE Band 26 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

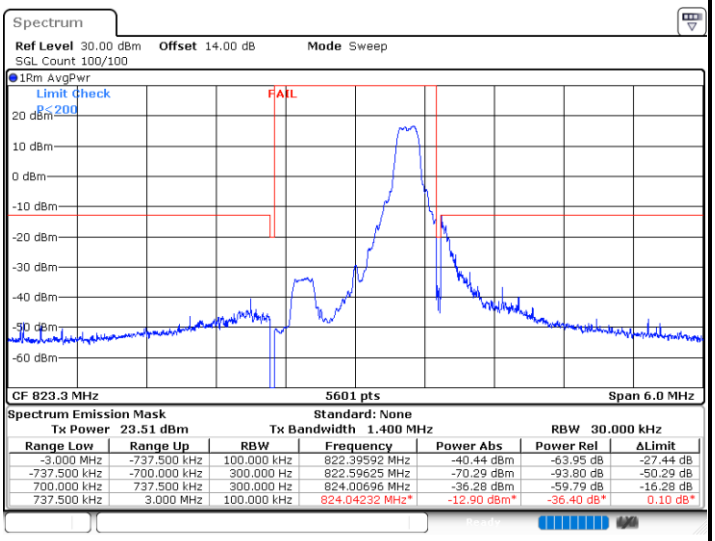


Spectrum Emission Mask Standard: None
Tx Power 24.02 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	813.95554 MHz*	-11.65 dBm*	-35.67 dB*	1.35 dB*
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99411 MHz	-35.79 dBm	-59.81 dB	-15.79 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.42089 MHz	-70.11 dBm	-94.13 dB	-50.11 dB
737.500 kHz	3.000 MHz	100.000 kHz	816.28754 MHz	-41.48 dBm	-65.50 dB	-28.48 dB

Date: 13.DEC.2023 22:04:33

Highest Band Edge / 1 RB

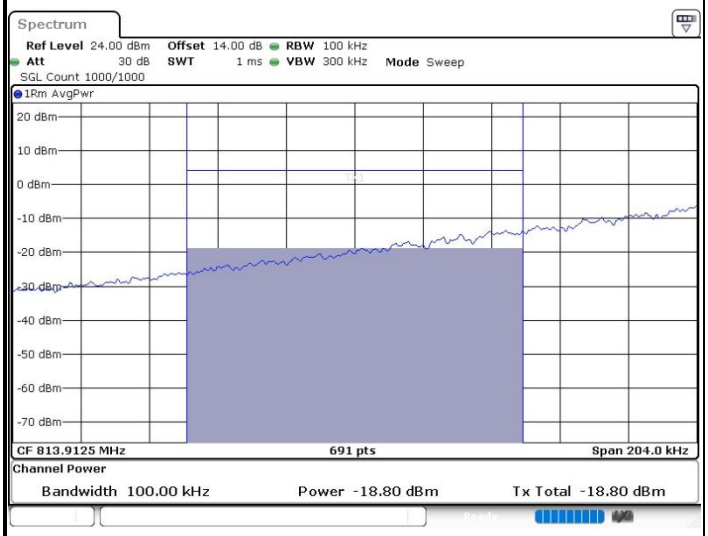


Spectrum Emission Mask Standard: None
Tx Power 23.51 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	822.39592 MHz	-40.44 dBm	-63.95 dB	-27.44 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.59625 MHz	-70.29 dBm	-93.80 dB	-50.29 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00696 MHz	-36.28 dBm	-59.79 dB	-16.28 dB
737.500 kHz	3.000 MHz	100.000 kHz	824.04232 MHz*	-12.90 dBm*	-36.40 dB*	0.10 dB*

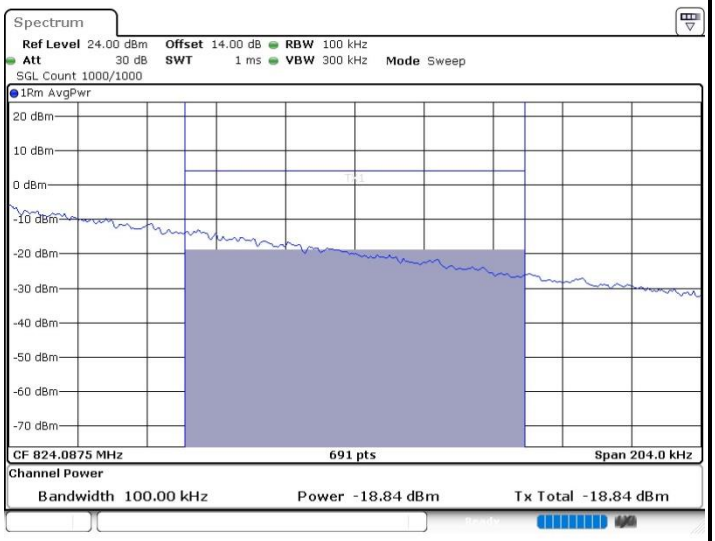
Date: 13.DEC.2023 22:14:16

Lowest Band Edge / 1RB-CP



Date: 13.DEC.2023 23:11:24

Highest Band Edge / 1RB-CP



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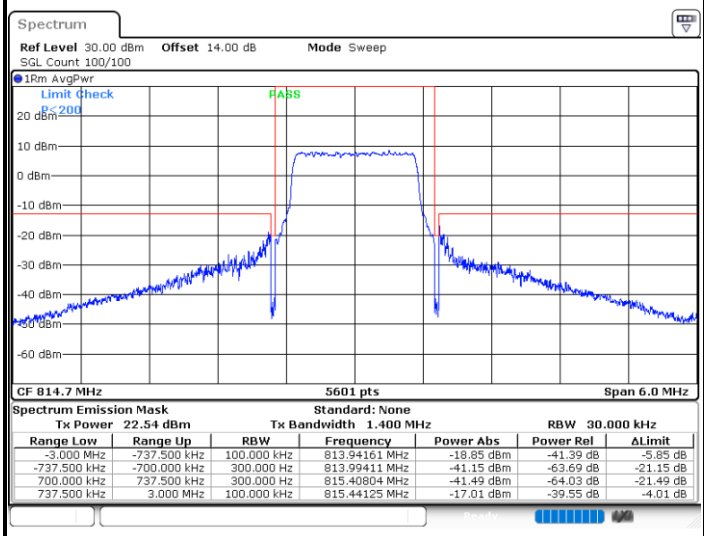
Lowest Band Edge / Full RB

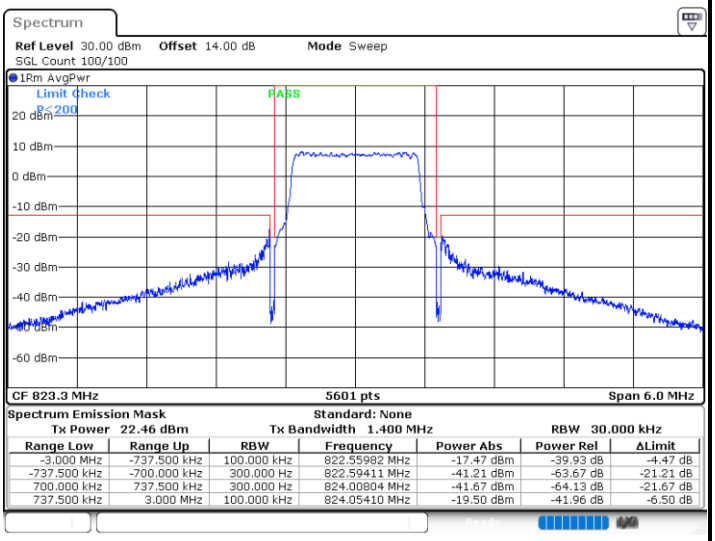


Spectrum Emission Mask Standard: None
Tx Power 22.54 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	813.94161 MHz	-18.85 dBm	-41.39 dB	-5.85 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99411 MHz	-41.15 dBm	-63.69 dB	-21.15 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40804 MHz	-41.49 dBm	-64.03 dB	-21.49 dB
737.500 kHz	3.000 MHz	100.000 kHz	815.44125 MHz	-17.01 dBm	-39.55 dB	-4.01 dB

Date: 13.DEC.2023 22:07:27

Highest Band Edge / Full RB



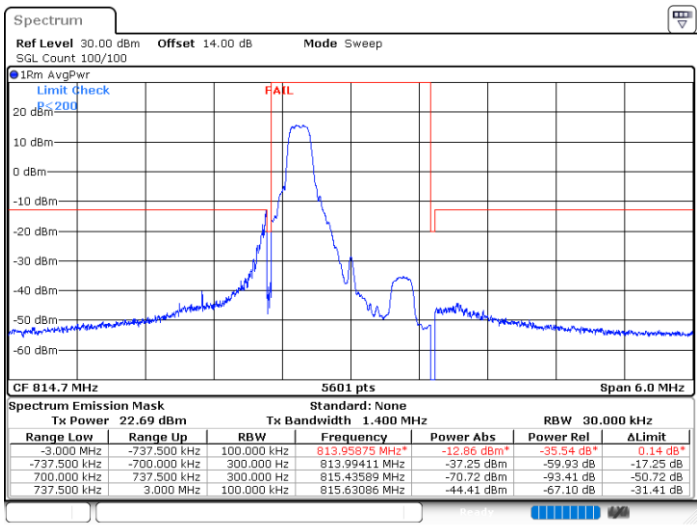
Spectrum Emission Mask Standard: None
Tx Power 22.46 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	822.55982 MHz	-17.47 dBm	-39.93 dB	-4.47 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.59411 MHz	-41.21 dBm	-63.67 dB	-21.21 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00804 MHz	-41.67 dBm	-64.13 dB	-21.67 dB
737.500 kHz	3.000 MHz	100.000 kHz	824.05410 MHz	-19.50 dBm	-41.96 dB	-6.50 dB

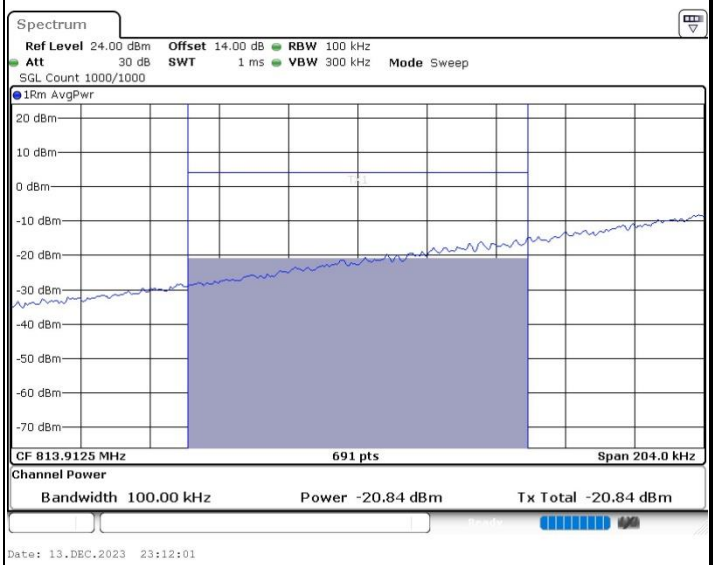
Date: 13.DEC.2023 22:17:10

LTE Band 26 / 1.4MHz / 64QAM

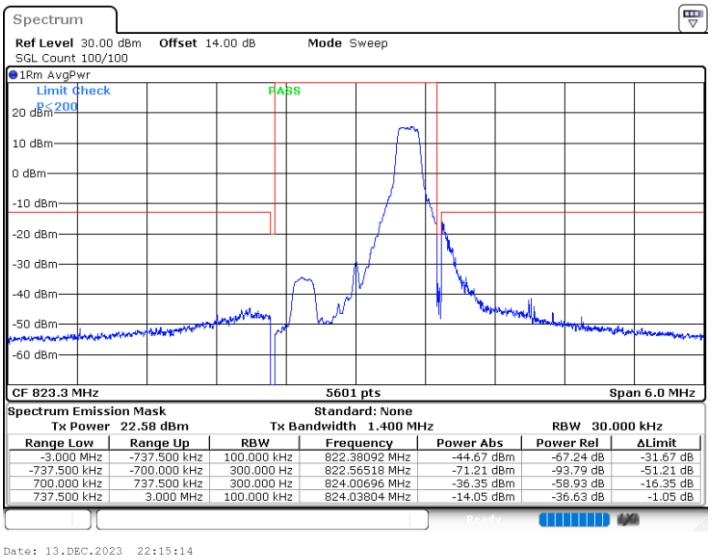
Lowest Band Edge / 1 RB



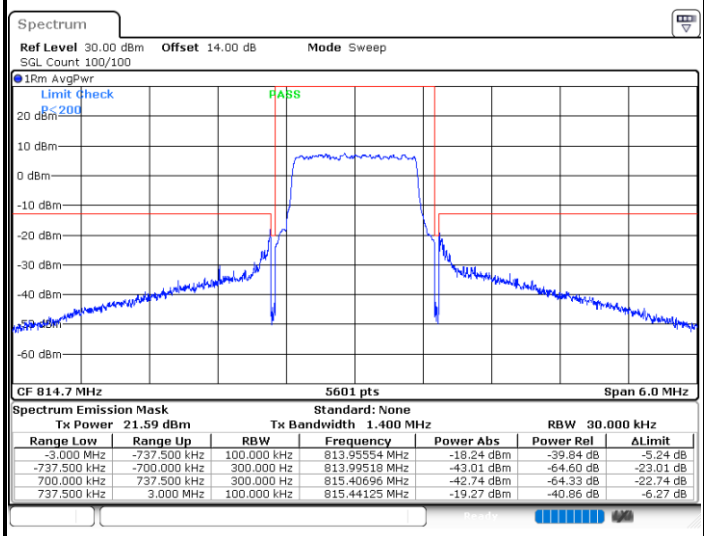
Lowest Band Edge / 1 RB-CP



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

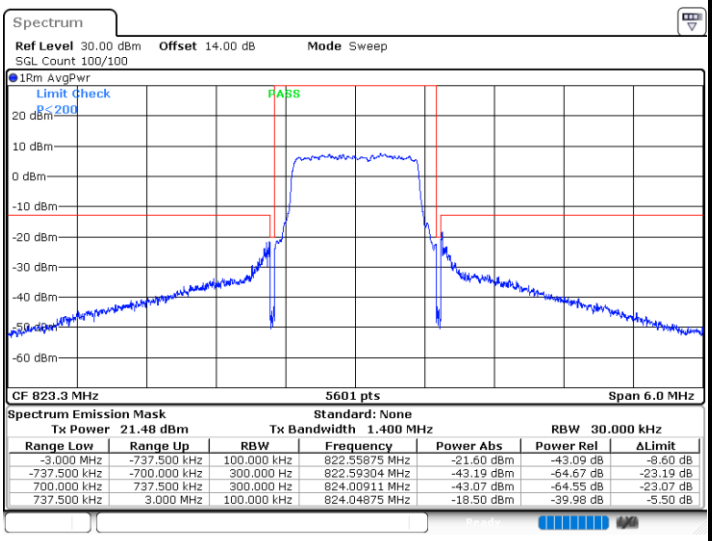


Spectrum Emission Mask — Standard: None
Tx Power 21.59 dBm — Tx Bandwidth 1.400 MHz — RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	813.95554 MHz	-18.24 dBm	-39.84 dB	-5.24 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99518 MHz	-43.01 dBm	-64.60 dB	-23.01 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40696 MHz	-42.74 dBm	-64.33 dB	-22.74 dB
737.500 kHz	3.000 MHz	100.000 kHz	815.44125 MHz	-19.27 dBm	-40.86 dB	-6.27 dB

Date: 13.DEC.2023 22:06:29

Highest Band Edge / Full RB



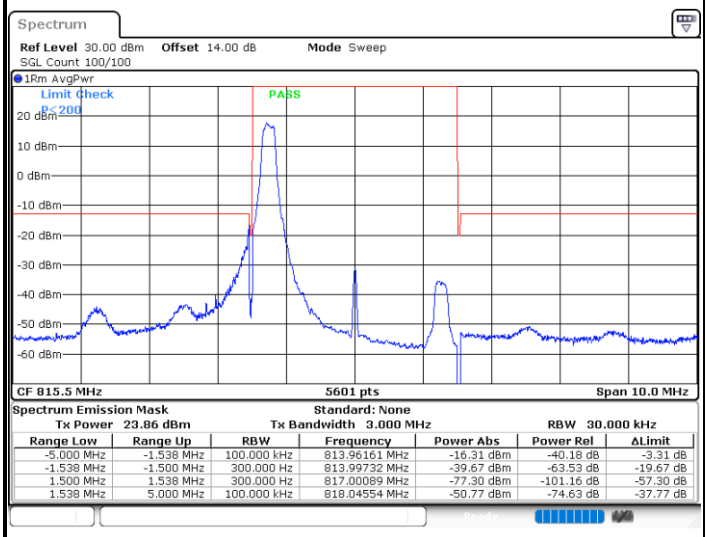
Spectrum Emission Mask — Standard: None
Tx Power 21.48 dBm — Tx Bandwidth 1.400 MHz — RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	822.55875 MHz	-21.60 dBm	-43.09 dB	-8.60 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.59304 MHz	-43.19 dBm	-64.67 dB	-23.19 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00911 MHz	-43.07 dBm	-64.55 dB	-23.07 dB
737.500 kHz	3.000 MHz	100.000 kHz	824.04875 MHz	-18.50 dBm	-39.98 dB	-5.50 dB

Date: 13.DEC.2023 22:16:12

LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB

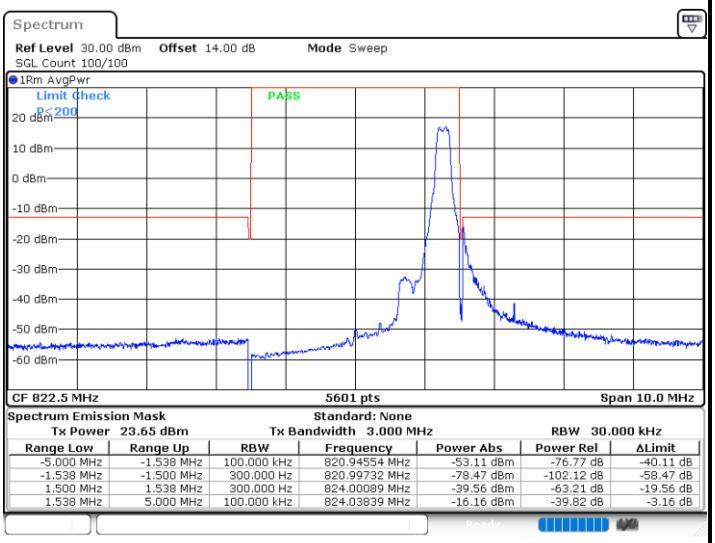


Spectrum Emission Mask Standard: None
Tx Power 23.86 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	813.96161 MHz	-16.31 dBm	-40.18 dB	-3.31 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99732 MHz	-39.67 dBm	-63.53 dB	-19.67 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00089 MHz	-77.30 dBm	-101.16 dB	-57.30 dB
1.538 MHz	5.000 MHz	100.000 kHz	818.04554 MHz	-50.77 dBm	-74.63 dB	-37.77 dB

Date: 12.DEC.2023 02:43:26

Highest Band Edge / 1RB

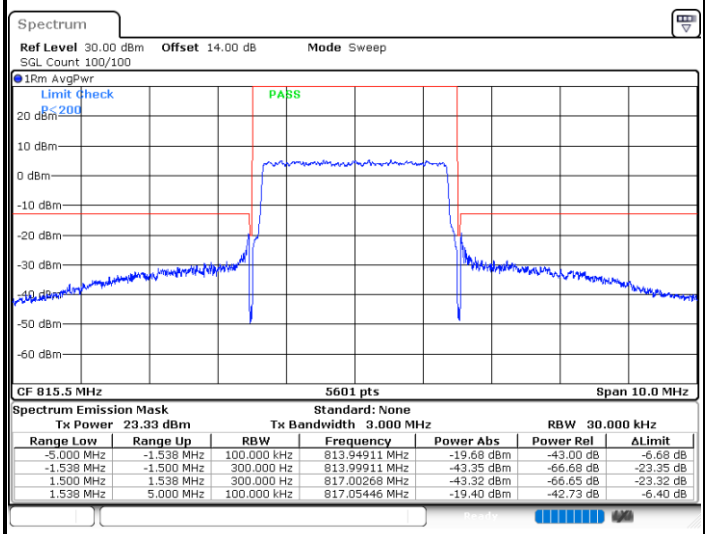


Spectrum Emission Mask Standard: None
Tx Power 23.65 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	820.94554 MHz	-53.11 dBm	-76.77 dB	-40.11 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99732 MHz	-78.47 dBm	-102.12 dB	-58.47 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00089 MHz	-39.56 dBm	-63.21 dB	-19.56 dB
1.538 MHz	5.000 MHz	100.000 kHz	824.03839 MHz	-16.16 dBm	-39.82 dB	-3.16 dB

Date: 12.DEC.2023 02:55:02

Lowest Band Edge / Full RB

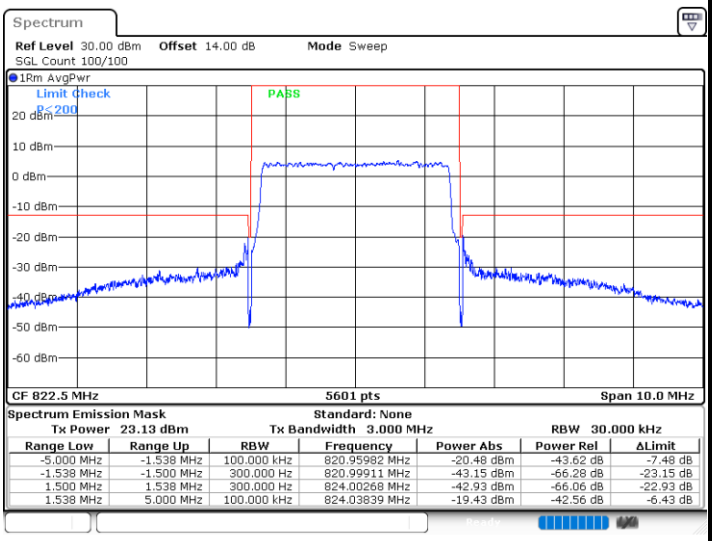


Spectrum Emission Mask Standard: None
Tx Power 23.33 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	813.94911 MHz	-19.68 dBm	-43.00 dB	-6.68 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99911 MHz	-43.35 dBm	-66.68 dB	-23.35 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00268 MHz	-43.32 dBm	-66.65 dB	-23.32 dB
1.538 MHz	5.000 MHz	100.000 kHz	817.05446 MHz	-19.40 dBm	-42.73 dB	-6.40 dB

Date: 12.DEC.2023 02:49:49

Highest Band Edge / Full RB



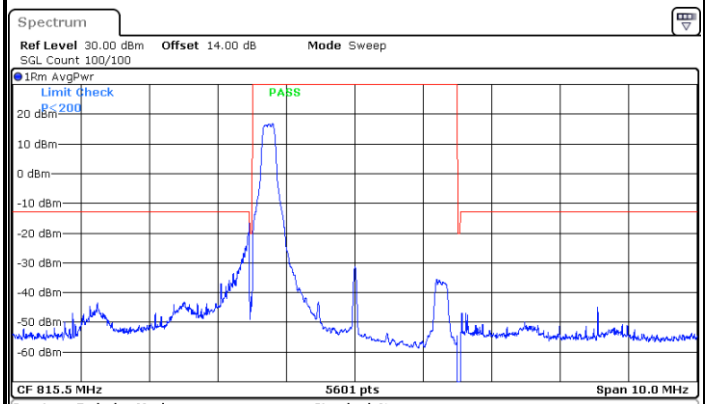
Spectrum Emission Mask Standard: None
Tx Power 23.13 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	820.95982 MHz	-20.48 dBm	-43.62 dB	-7.48 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99911 MHz	-43.15 dBm	-66.28 dB	-23.15 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00268 MHz	-42.93 dBm	-66.06 dB	-22.93 dB
1.538 MHz	5.000 MHz	100.000 kHz	824.03839 MHz	-19.43 dBm	-42.56 dB	-6.43 dB

Date: 12.DEC.2023 03:01:22

LTE Band 26 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

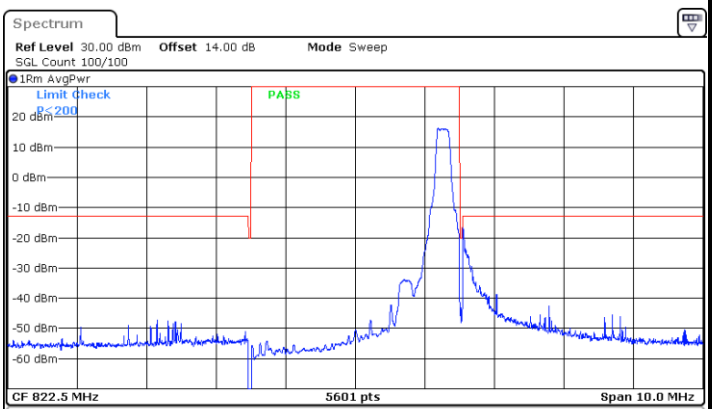


Spectrum Emission Mask Standard: None
Tx Power 23.53 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	813.96161 MHz	-16.12 dBm	-39.65 dB	-3.12 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99911 MHz	-39.81 dBm	-63.34 dB	-19.81 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00804 MHz	-75.12 dBm	-98.65 dB	-55.12 dB
1.538 MHz	5.000 MHz	100.000 kHz	819.04732 MHz	-44.95 dBm	-68.48 dB	-31.95 dB

Date: 12.DEC.2023 02:44:42

Highest Band Edge / 1 RB

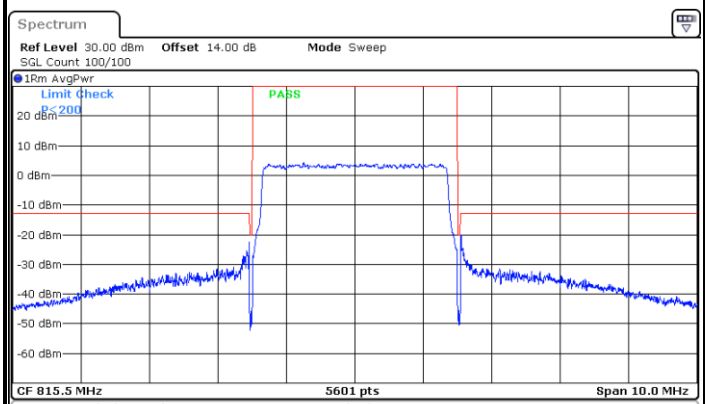


Spectrum Emission Mask Standard: None
Tx Power 23.18 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	819.64911 MHz	-47.25 dBm	-70.43 dB	-34.25 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99554 MHz	-75.26 dBm	-98.44 dB	-55.26 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00089 MHz	-41.43 dBm	-64.61 dB	-21.43 dB
1.538 MHz	5.000 MHz	100.000 kHz	824.04732 MHz	-15.94 dBm	-39.12 dB	-2.94 dB

Date: 12.DEC.2023 02:56:18

Lowest Band Edge / Full RB

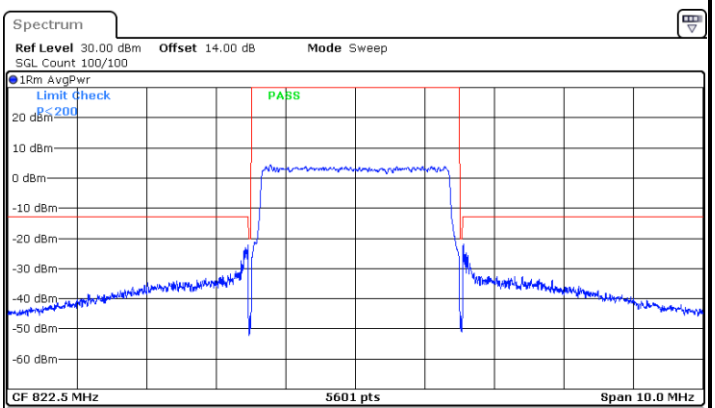


Spectrum Emission Mask Standard: None
Tx Power 22.32 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	813.95625 MHz	-22.49 dBm	-44.82 dB	-9.49 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99911 MHz	-44.67 dBm	-67.00 dB	-24.67 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00268 MHz	-44.09 dBm	-66.41 dB	-24.09 dB
1.538 MHz	5.000 MHz	100.000 kHz	817.04911 MHz	-20.09 dBm	-42.41 dB	-7.09 dB

Date: 12.DEC.2023 02:48:33

Highest Band Edge / Full RB



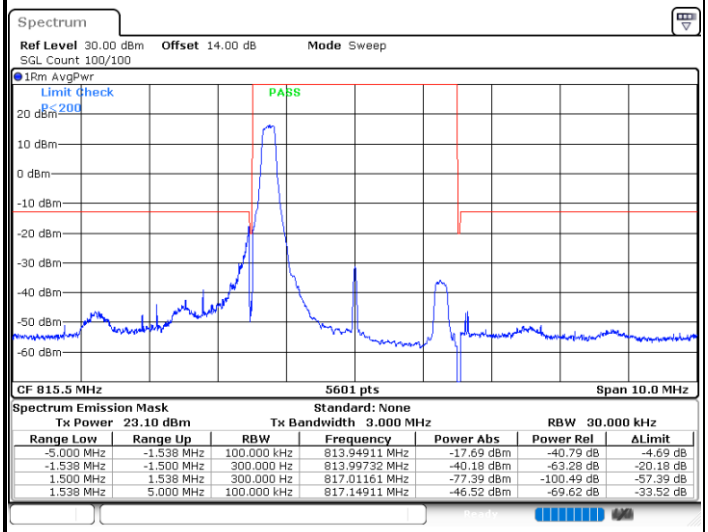
Spectrum Emission Mask Standard: None
Tx Power 22.18 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	820.96161 MHz	-22.15 dBm	-44.32 dB	-9.15 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99911 MHz	-44.77 dBm	-66.95 dB	-24.77 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00268 MHz	-44.46 dBm	-66.64 dB	-24.46 dB
1.538 MHz	5.000 MHz	100.000 kHz	824.05268 MHz	-21.84 dBm	-44.01 dB	-8.84 dB

Date: 12.DEC.2023 03:00:06

LTE Band 26 / 3MHz / 64QAM

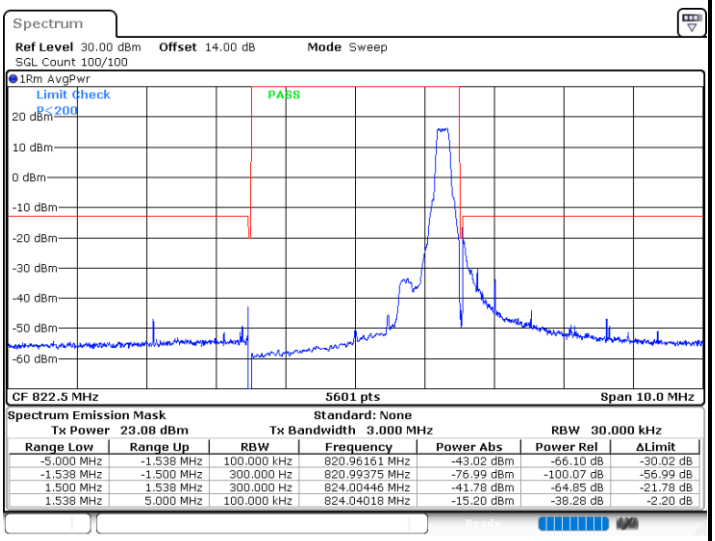
Lowest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	813.94911 MHz	-17.69 dBm	-40.79 dB	-4.69 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99732 MHz	-40.18 dBm	-63.28 dB	-20.18 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.01161 MHz	-77.39 dBm	-100.49 dB	-57.39 dB
1.538 MHz	5.000 MHz	100.000 kHz	817.14911 MHz	-46.52 dBm	-69.62 dB	-33.52 dB

Date: 12.DEC.2023 02:45:58

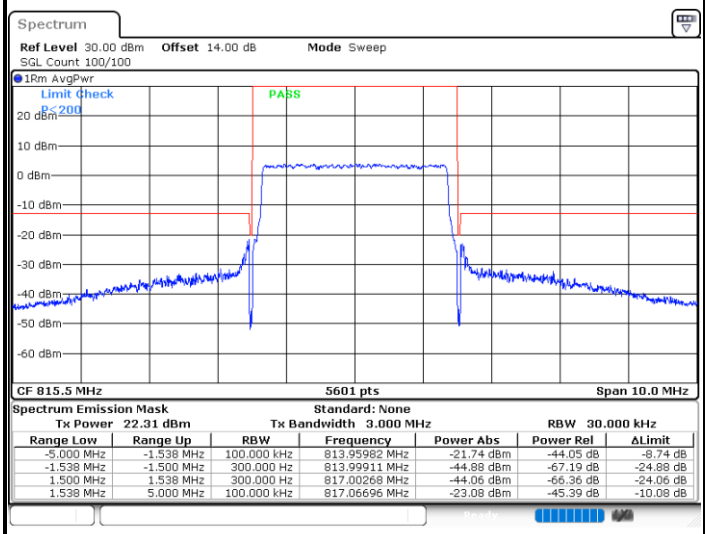
Highest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	820.96161 MHz	-43.02 dBm	-66.10 dB	-30.02 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99375 MHz	-76.99 dBm	-100.07 dB	-56.99 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00446 MHz	-41.78 dBm	-64.85 dB	-21.78 dB
1.538 MHz	5.000 MHz	100.000 kHz	824.04018 MHz	-15.20 dBm	-38.28 dB	-2.20 dB

Date: 12.DEC.2023 02:57:34

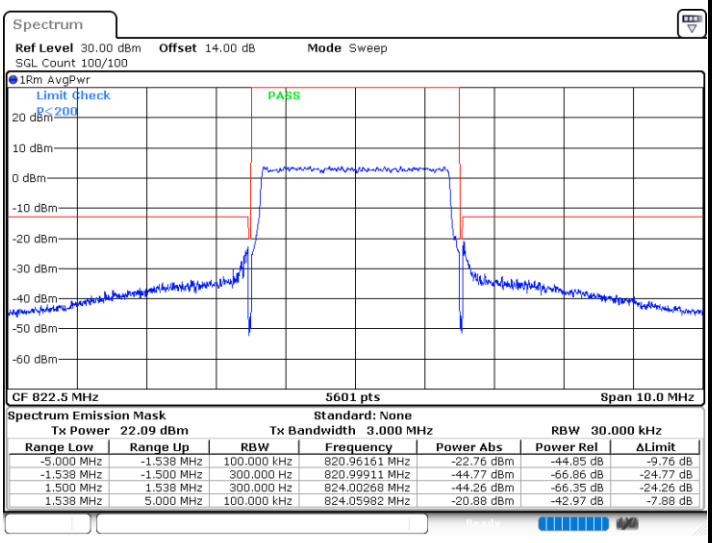
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	813.95982 MHz	-21.74 dBm	-44.05 dB	-8.74 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99911 MHz	-44.88 dBm	-67.19 dB	-24.88 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00268 MHz	-44.06 dBm	-66.36 dB	-24.06 dB
1.538 MHz	5.000 MHz	100.000 kHz	817.06696 MHz	-23.08 dBm	-45.39 dB	-10.08 dB

Date: 12.DEC.2023 02:47:15

Highest Band Edge / Full RB

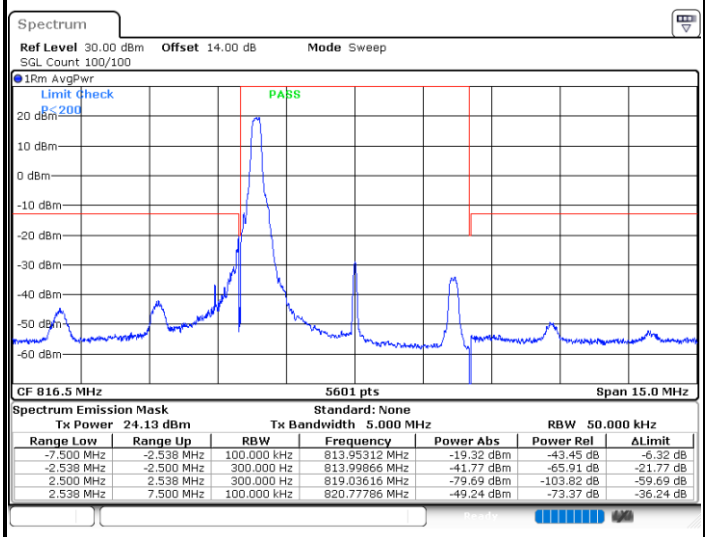


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	820.96161 MHz	-22.76 dBm	-44.85 dB	-9.76 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99911 MHz	-44.77 dBm	-66.86 dB	-24.77 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00268 MHz	-44.26 dBm	-66.35 dB	-24.26 dB
1.538 MHz	5.000 MHz	100.000 kHz	824.05982 MHz	-20.88 dBm	-42.97 dB	-7.88 dB

Date: 12.DEC.2023 02:58:50

LTE Band 26 / 5MHz / QPSK

Lowest Band Edge / 1RB

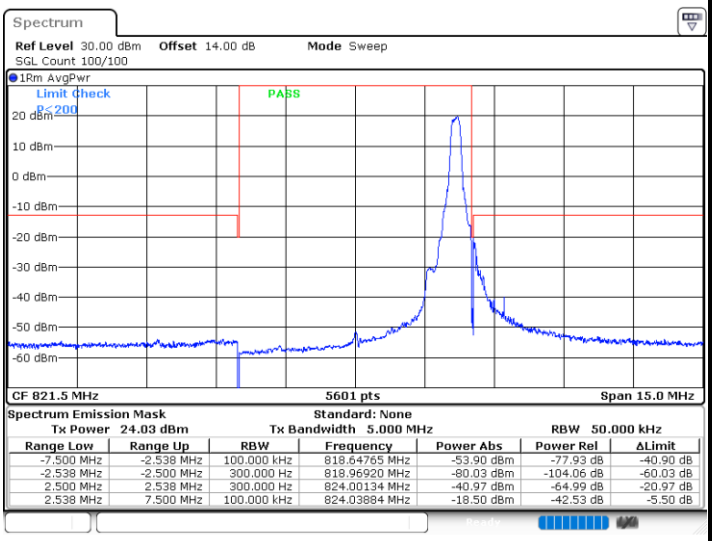


Spectrum Emission Mask Standard: None
Tx Power 24.13 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.95312 MHz	-19.32 dBm	-43.45 dB	-6.32 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99866 MHz	-41.77 dBm	-65.91 dB	-21.77 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.03616 MHz	-79.69 dBm	-103.82 dB	-59.69 dB
2.538 MHz	7.500 MHz	100.000 kHz	820.77786 MHz	-49.24 dBm	-73.37 dB	-36.24 dB

Date: 13.DEC.2023 22:20:23

Highest Band Edge / 1RB

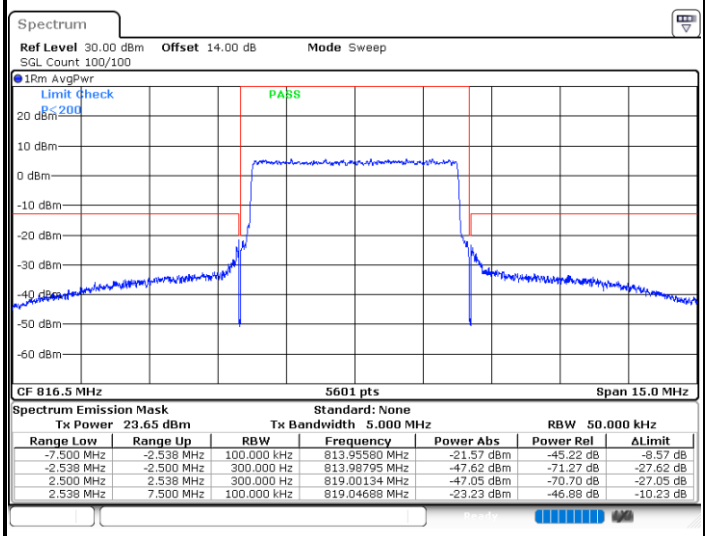


Spectrum Emission Mask Standard: None
Tx Power 24.03 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	818.64765 MHz	-53.90 dBm	-77.93 dB	-40.90 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.96920 MHz	-80.03 dBm	-104.06 dB	-60.03 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00134 MHz	-40.97 dBm	-64.99 dB	-20.97 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.03884 MHz	-18.50 dBm	-42.53 dB	-5.50 dB

Date: 13.DEC.2023 22:30:06

Lowest Band Edge / Full RB

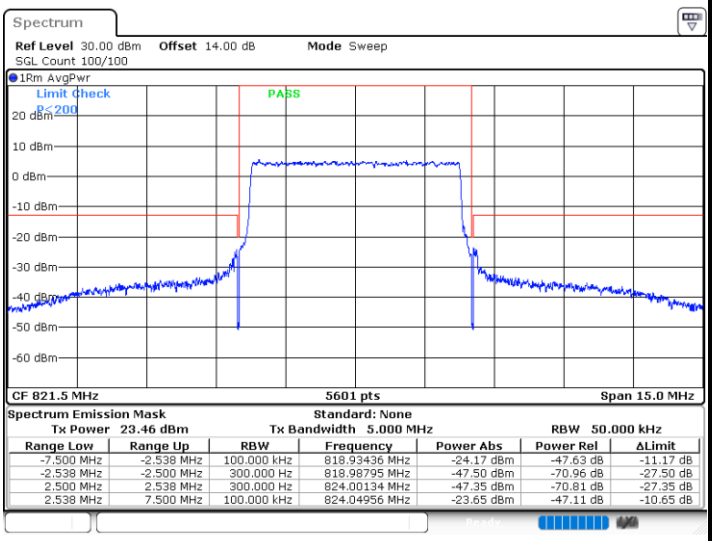


Spectrum Emission Mask Standard: None
Tx Power 23.65 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.95580 MHz	-21.57 dBm	-45.22 dB	-8.57 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.98795 MHz	-47.62 dBm	-71.27 dB	-27.62 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00134 MHz	-47.05 dBm	-70.70 dB	-27.05 dB
2.538 MHz	7.500 MHz	100.000 kHz	819.04688 MHz	-23.23 dBm	-46.88 dB	-10.23 dB

Date: 13.DEC.2023 22:25:13

Highest Band Edge / Full RB



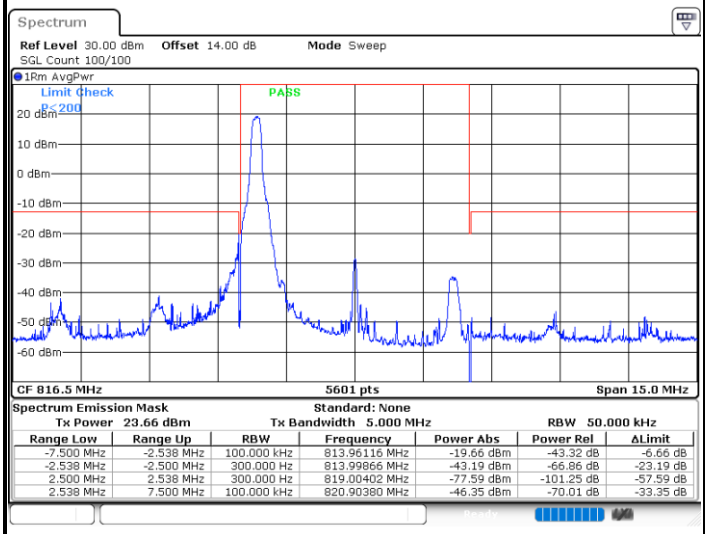
Spectrum Emission Mask Standard: None
Tx Power 23.46 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	818.93436 MHz	-24.17 dBm	-47.63 dB	-11.17 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.98795 MHz	-47.50 dBm	-70.96 dB	-27.50 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00134 MHz	-47.35 dBm	-70.81 dB	-27.35 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.04956 MHz	-23.65 dBm	-47.11 dB	-10.65 dB

Date: 13.DEC.2023 22:34:56

LTE Band 26 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

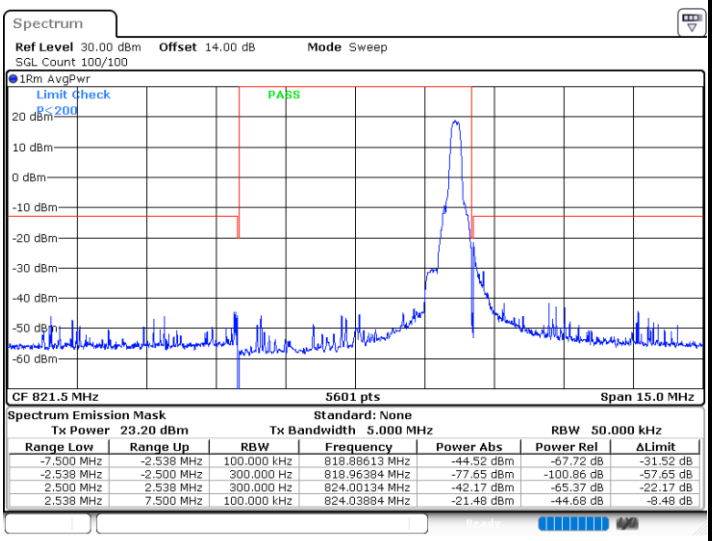


Spectrum Emission Mask Standard: None
Tx Power 23.66 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.96116 MHz	-19.66 dBm	-43.32 dB	-6.66 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99866 MHz	-43.19 dBm	-66.86 dB	-23.19 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00402 MHz	-77.59 dBm	-101.25 dB	-57.59 dB
2.538 MHz	7.500 MHz	100.000 kHz	820.90380 MHz	-46.35 dBm	-70.01 dB	-33.35 dB

Date: 13.DEC.2023 22:21:21

Highest Band Edge / 1 RB

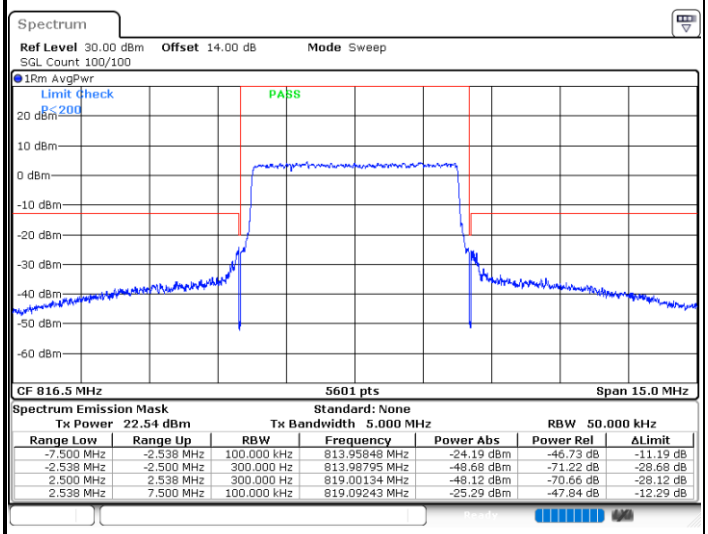


Spectrum Emission Mask Standard: None
Tx Power 23.20 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	818.88613 MHz	-44.52 dBm	-67.72 dB	-31.52 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.96384 MHz	-77.65 dBm	-100.86 dB	-57.65 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00134 MHz	-42.17 dBm	-65.37 dB	-22.17 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.03884 MHz	-21.48 dBm	-44.68 dB	-8.48 dB

Date: 13.DEC.2023 22:31:04

Lowest Band Edge / Full RB

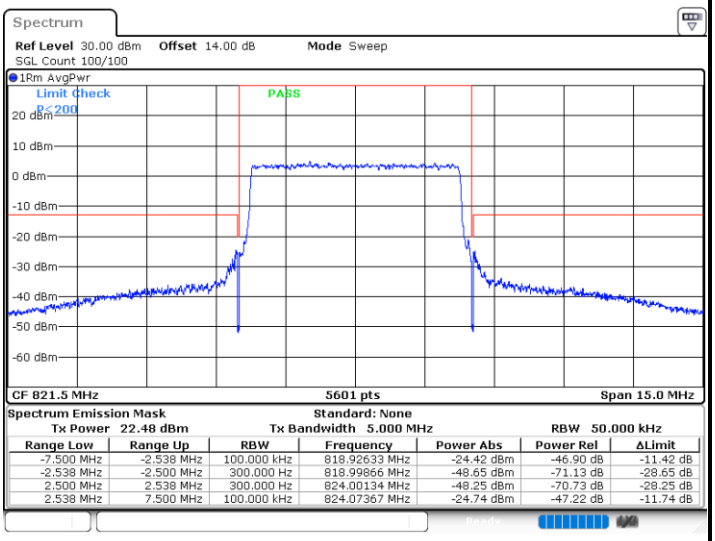


Spectrum Emission Mask Standard: None
Tx Power 22.54 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.95848 MHz	-24.19 dBm	-46.73 dB	-11.19 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.98795 MHz	-48.68 dBm	-71.22 dB	-28.68 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00134 MHz	-48.12 dBm	-70.66 dB	-28.12 dB
2.538 MHz	7.500 MHz	100.000 kHz	819.09243 MHz	-25.29 dBm	-47.84 dB	-12.29 dB

Date: 13.DEC.2023 22:24:15

Highest Band Edge / Full RB



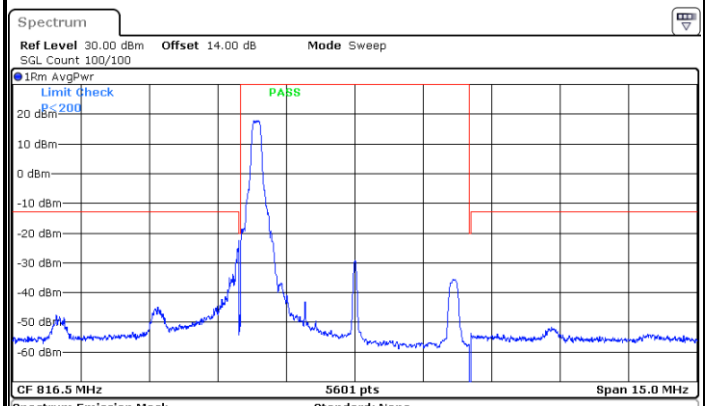
Spectrum Emission Mask Standard: None
Tx Power 22.48 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	818.92633 MHz	-24.42 dBm	-46.90 dB	-11.42 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.99866 MHz	-48.65 dBm	-71.13 dB	-28.65 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00134 MHz	-48.25 dBm	-70.73 dB	-28.25 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.07367 MHz	-24.74 dBm	-47.22 dB	-11.74 dB

Date: 13.DEC.2023 22:33:58

LTE Band 26 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

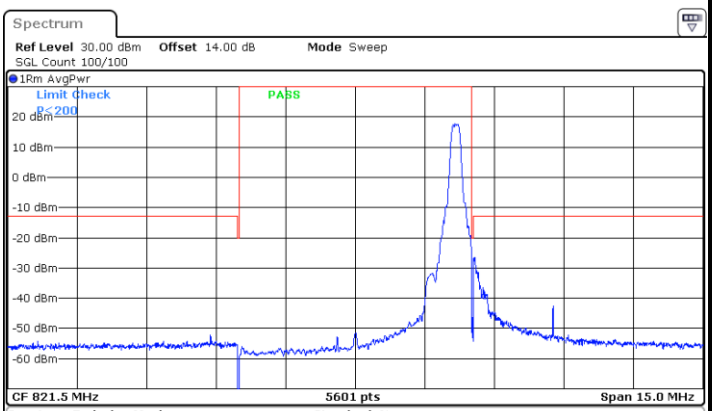


Spectrum Emission Mask Standard: None
Tx Power 22.54 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.96116 MHz	-22.53 dBm	-45.07 dB	-9.53 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99866 MHz	-44.02 dBm	-66.56 dB	-24.02 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00937 MHz	-79.68 dBm	-102.22 dB	-59.68 dB
2.538 MHz	7.500 MHz	100.000 kHz	820.81269 MHz	-51.75 dBm	-74.29 dB	-38.75 dB

Date: 13.DEC.2023 22:22:19

Highest Band Edge / 1 RB

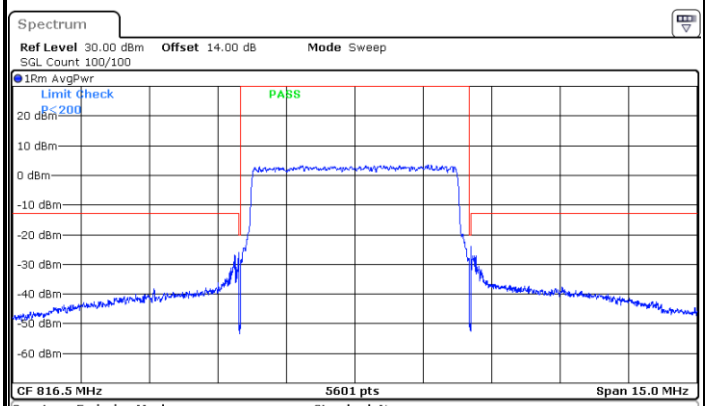


Spectrum Emission Mask Standard: None
Tx Power 22.23 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	818.37702 MHz	-52.14 dBm	-74.37 dB	-39.14 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.99330 MHz	-80.19 dBm	-102.41 dB	-60.19 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00134 MHz	-43.35 dBm	-65.58 dB	-23.35 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.07367 MHz	-26.47 dBm	-48.70 dB	-13.47 dB

Date: 13.DEC.2023 22:32:02

Lowest Band Edge / Full RB

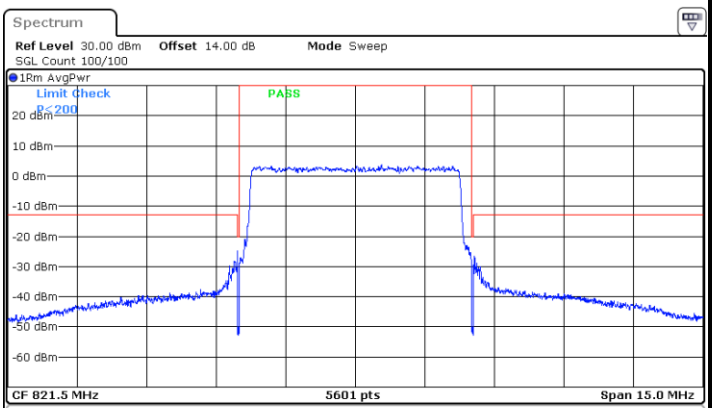


Spectrum Emission Mask Standard: None
Tx Power 21.54 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.96116 MHz	-25.99 dBm	-47.53 dB	-12.99 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.98795 MHz	-49.44 dBm	-70.98 dB	-29.44 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00134 MHz	-49.09 dBm	-70.63 dB	-29.09 dB
2.538 MHz	7.500 MHz	100.000 kHz	819.03884 MHz	-24.00 dBm	-45.54 dB	-11.00 dB

Date: 13.DEC.2023 22:23:17

Highest Band Edge / Full RB



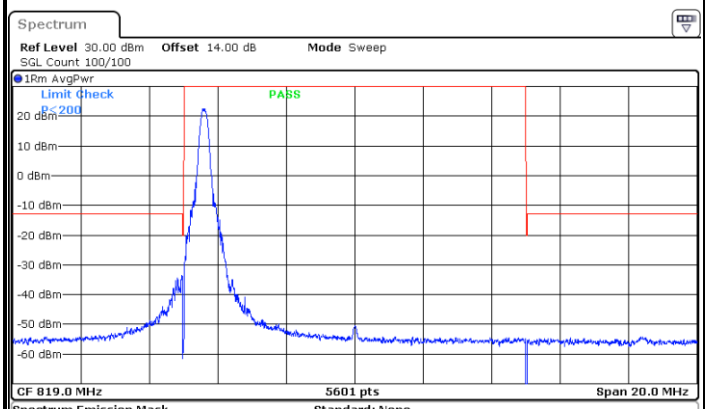
Spectrum Emission Mask Standard: None
Tx Power 21.49 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	818.96116 MHz	-24.71 dBm	-46.21 dB	-11.71 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.98795 MHz	-49.56 dBm	-71.05 dB	-29.56 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00134 MHz	-49.52 dBm	-71.01 dB	-29.52 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.07099 MHz	-26.53 dBm	-48.03 dB	-13.53 dB

Date: 13.DEC.2023 22:33:00

LTE Band 26 / 10MHz / QPSK

Lowest Band Edge / 1RB

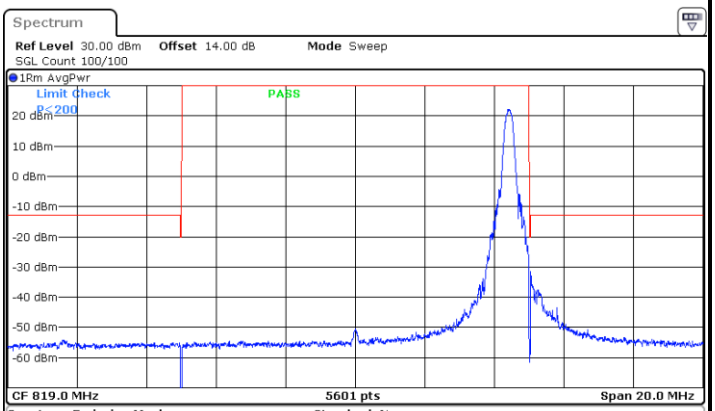


Spectrum Emission Mask Standard: None
Tx Power 24.05 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.95000 MHz	-33.51 dBm	-57.56 dB	-20.51 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.99813 MHz	-55.12 dBm	-79.17 dB	-35.12 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00937 MHz	-80.85 dBm	-104.91 dB	-60.85 dB
5.038 MHz	10.000 MHz	100.000 kHz	827.35477 MHz	-54.30 dBm	-78.35 dB	-41.30 dB

Date: 13.DEC.2023 22:38:36

Lowest Band Edge / 1RB

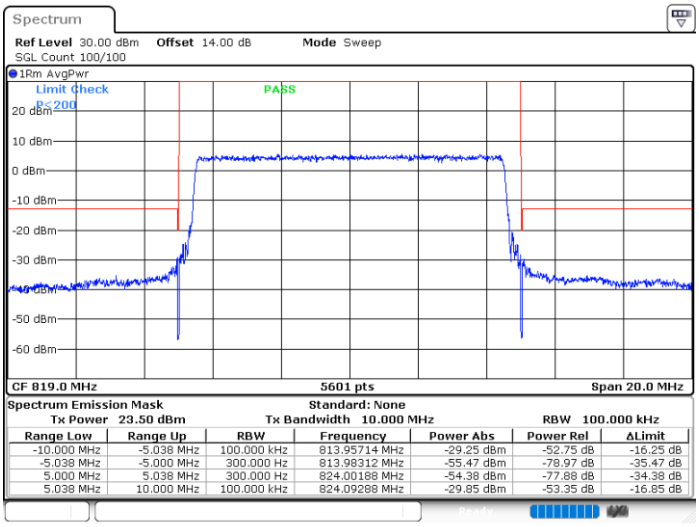


Spectrum Emission Mask Standard: None
Tx Power 23.75 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	810.58093 MHz	-54.16 dBm	-77.91 dB	-41.16 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98312 MHz	-80.83 dBm	-104.57 dB	-60.83 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00563 MHz	-53.85 dBm	-77.60 dB	-33.85 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.03929 MHz	-31.63 dBm	-55.38 dB	-18.63 dB

Date: 13.DEC.2023 22:43:26

Lowest Band Edge / Full RB



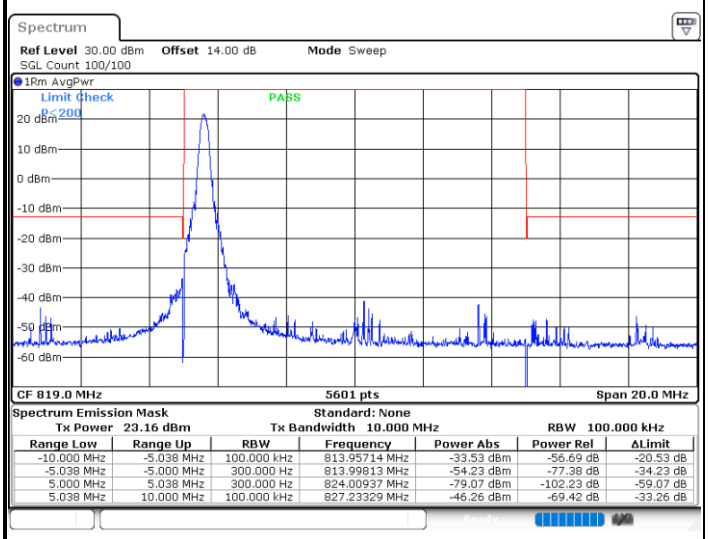
Spectrum Emission Mask Standard: None
Tx Power 23.50 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.95714 MHz	-29.25 dBm	-52.75 dB	-16.25 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98312 MHz	-55.47 dBm	-78.97 dB	-35.47 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00188 MHz	-54.38 dBm	-77.88 dB	-34.38 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.09288 MHz	-29.85 dBm	-53.35 dB	-16.85 dB

Date: 13.DEC.2023 22:44:24

LTE Band 26 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

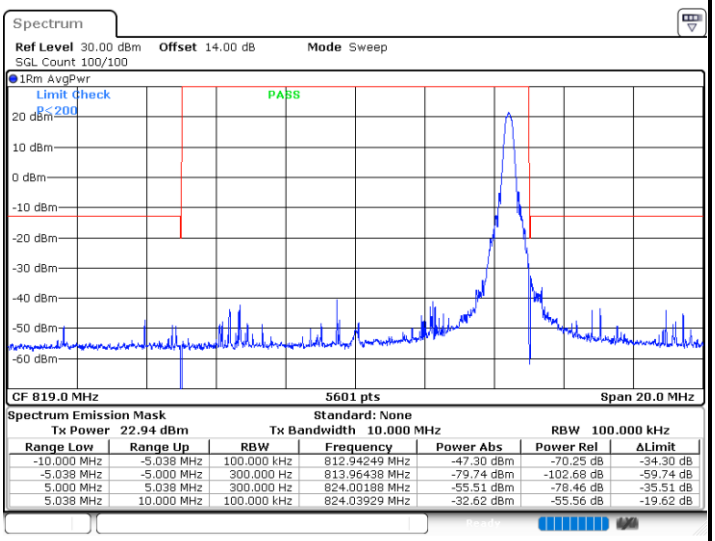


Spectrum Emission Mask — Standard: None
Tx Power 23.16 dBm — Tx Bandwidth 10.000 MHz — RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.95714 MHz	-33.53 dBm	-56.69 dB	-20.53 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.99813 MHz	-54.23 dBm	-77.38 dB	-34.23 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00937 MHz	-79.07 dBm	-102.23 dB	-59.07 dB
5.038 MHz	10.000 MHz	100.000 kHz	827.23329 MHz	-46.26 dBm	-69.42 dB	-33.26 dB

Date: 13.DEC.2023 22:39:34

Lowest Band Edge / 1 RB

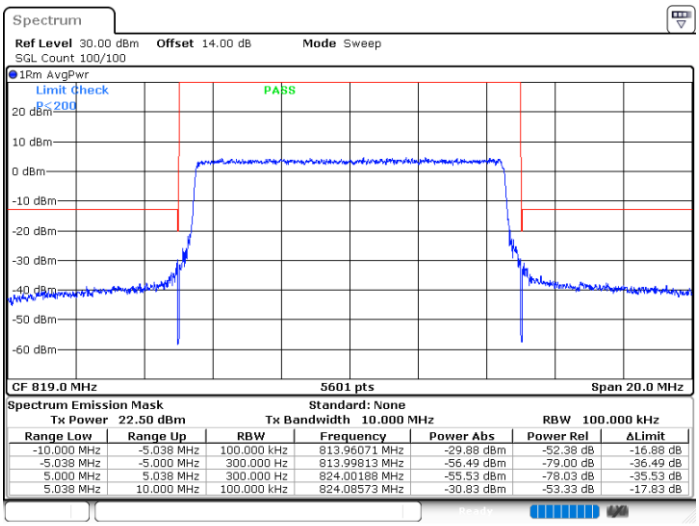


Spectrum Emission Mask — Standard: None
Tx Power 22.94 dBm — Tx Bandwidth 10.000 MHz — RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	812.94249 MHz	-47.30 dBm	-70.25 dB	-34.30 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.96438 MHz	-79.74 dBm	-102.68 dB	-59.74 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00188 MHz	-55.51 dBm	-78.46 dB	-35.51 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.03929 MHz	-32.62 dBm	-55.56 dB	-19.62 dB

Date: 13.DEC.2023 22:42:28

Lowest Band Edge / Full RB



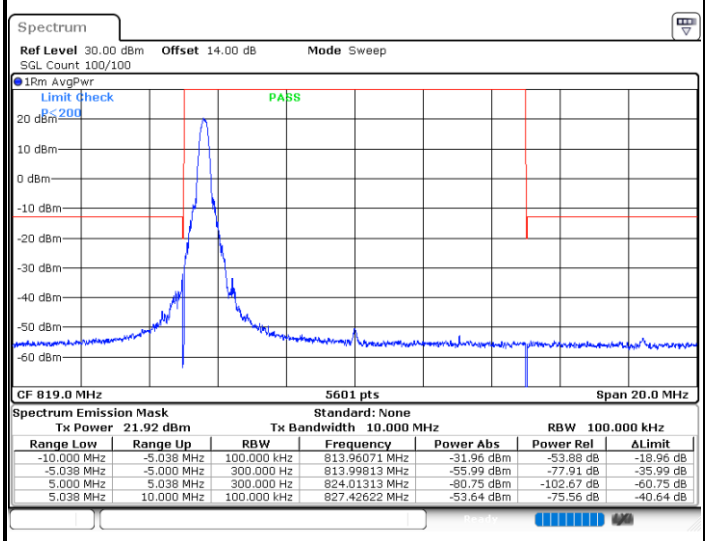
Spectrum Emission Mask — Standard: None
Tx Power 22.50 dBm — Tx Bandwidth 10.000 MHz — RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.96071 MHz	-29.88 dBm	-52.38 dB	-16.88 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.99813 MHz	-56.49 dBm	-79.00 dB	-36.49 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00188 MHz	-55.53 dBm	-78.03 dB	-35.53 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.08573 MHz	-30.83 dBm	-53.33 dB	-17.83 dB

Date: 13.DEC.2023 22:45:22

LTE Band 26 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

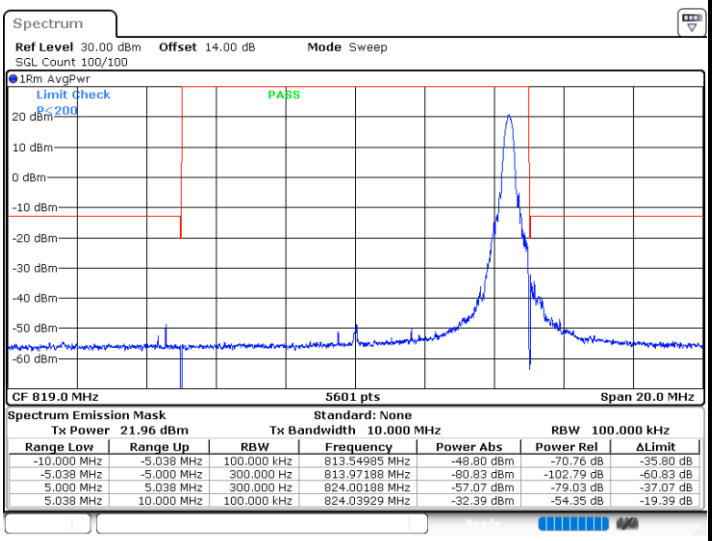


Spectrum Emission Mask — Standard: None
Tx Power 21.92 dBm — Tx Bandwidth 10.000 MHz — RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.96071 MHz	-31.96 dBm	-53.88 dB	-18.96 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.99813 MHz	-55.99 dBm	-77.91 dB	-35.99 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01313 MHz	-80.75 dBm	-102.67 dB	-60.75 dB
5.038 MHz	10.000 MHz	100.000 kHz	827.42622 MHz	-53.64 dBm	-75.56 dB	-40.64 dB

Date: 13.DEC.2023 22:40:32

Lowest Band Edge / 1 RB

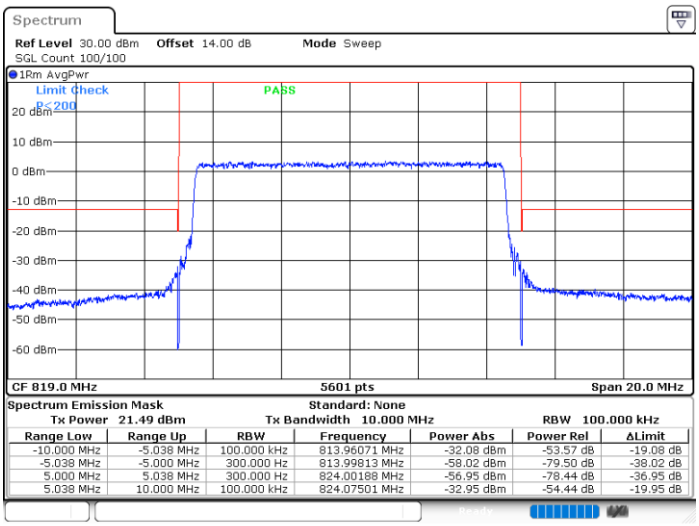


Spectrum Emission Mask — Standard: None
Tx Power 21.96 dBm — Tx Bandwidth 10.000 MHz — RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.54985 MHz	-48.80 dBm	-70.76 dB	-35.80 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.97188 MHz	-80.83 dBm	-102.79 dB	-60.83 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00188 MHz	-57.07 dBm	-79.03 dB	-37.07 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.03929 MHz	-32.39 dBm	-54.35 dB	-19.39 dB

Date: 13.DEC.2023 22:41:30

Lowest Band Edge / Full RB



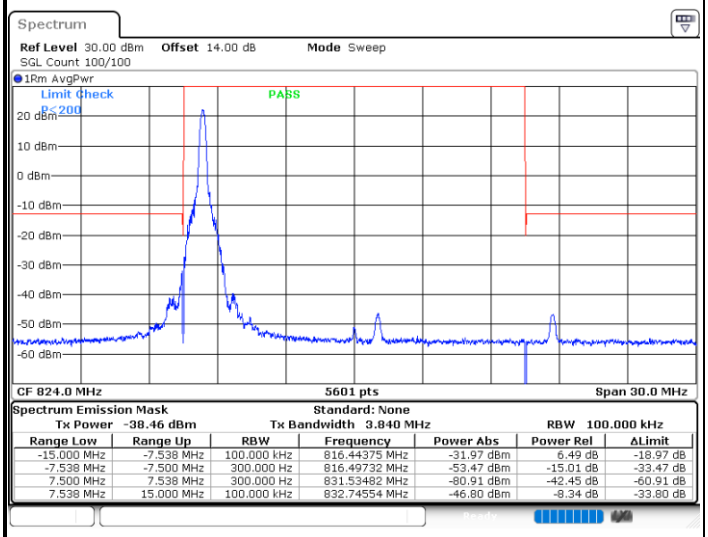
Spectrum Emission Mask — Standard: None
Tx Power 21.49 dBm — Tx Bandwidth 10.000 MHz — RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.96071 MHz	-32.08 dBm	-53.57 dB	-19.08 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.99813 MHz	-58.02 dBm	-79.50 dB	-38.02 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00188 MHz	-56.95 dBm	-78.44 dB	-36.95 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.07501 MHz	-32.95 dBm	-54.44 dB	-19.95 dB

Date: 13.DEC.2023 22:46:20

LTE Band 26 / 15MHz

Lowest Band Edge / 1RB QPSK

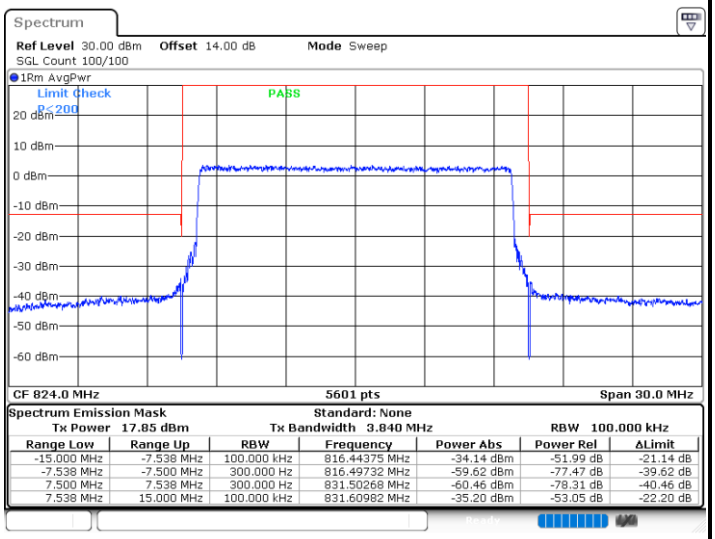


Spectrum Emission Mask Standard: None
Tx Power -38.46 dBm Tx Bandwidth 3.840 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44375 MHz	-31.97 dBm	6.49 dB	-18.97 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.49732 MHz	-53.47 dBm	-15.01 dB	-33.47 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.53482 MHz	-80.91 dBm	-42.45 dB	-60.91 dB
7.538 MHz	15.000 MHz	100.000 kHz	832.74554 MHz	-46.80 dBm	-8.34 dB	-33.80 dB

Date: 13.DEC.2023 23:28:33

Lowest Band Edge / Full RB QPSK

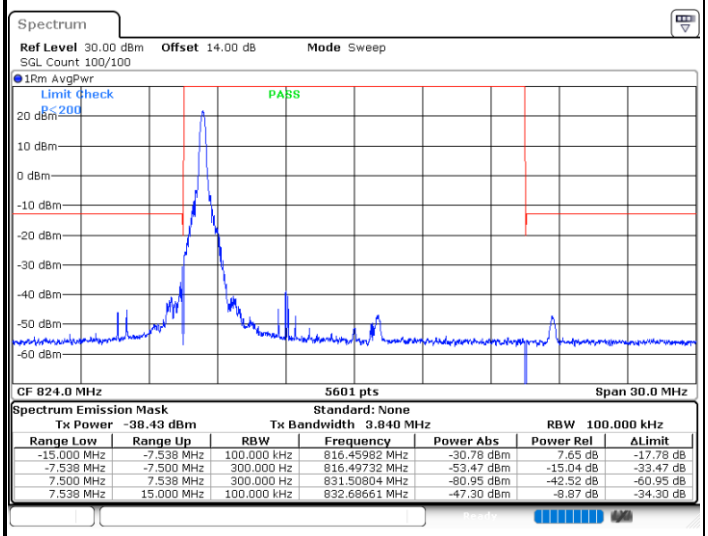


Spectrum Emission Mask Standard: None
Tx Power 17.85 dBm Tx Bandwidth 3.840 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44375 MHz	-34.14 dBm	-51.99 dB	-21.14 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.49732 MHz	-59.62 dBm	-77.47 dB	-39.62 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.50268 MHz	-60.46 dBm	-78.31 dB	-40.46 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.60982 MHz	-35.20 dBm	-53.05 dB	-22.20 dB

Date: 13.DEC.2023 23:25:49

Lowest Band Edge / 1 RB 16QAM

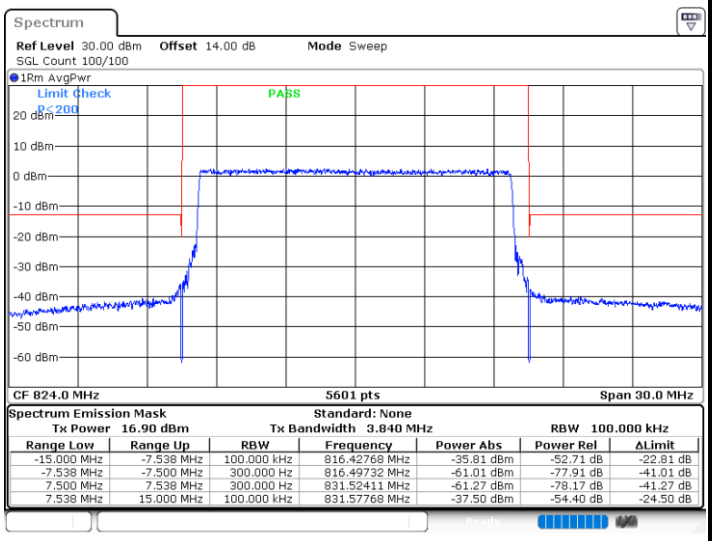


Spectrum Emission Mask Standard: None
Tx Power -38.43 dBm Tx Bandwidth 3.840 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.45982 MHz	-30.78 dBm	7.65 dB	-17.78 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.49732 MHz	-53.47 dBm	-15.04 dB	-33.47 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.50804 MHz	-80.95 dBm	-42.52 dB	-60.95 dB
7.538 MHz	15.000 MHz	100.000 kHz	832.68661 MHz	-47.30 dBm	-8.87 dB	-34.30 dB

Date: 13.DEC.2023 23:29:35

Lowest Band Edge / Full RB 16QAM



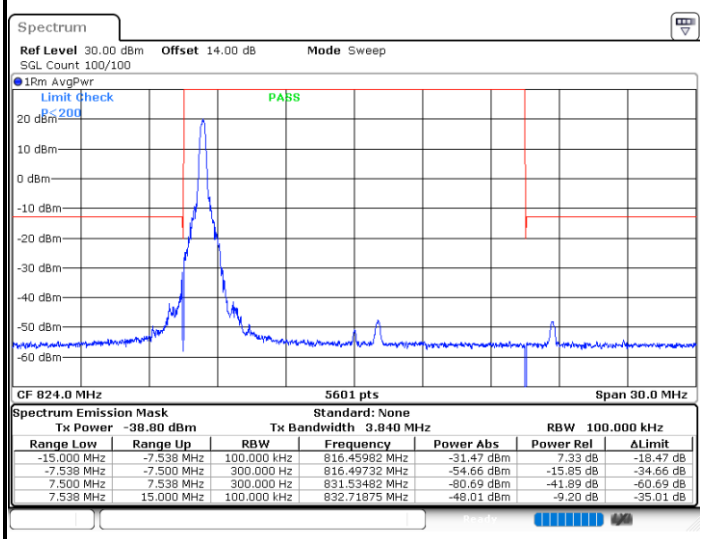
Spectrum Emission Mask Standard: None
Tx Power 16.90 dBm Tx Bandwidth 3.840 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.42768 MHz	-35.81 dBm	-52.71 dB	-22.81 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.49732 MHz	-61.01 dBm	-77.91 dB	-41.01 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.52411 MHz	-61.27 dBm	-78.17 dB	-41.27 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.57768 MHz	-37.50 dBm	-54.40 dB	-24.50 dB

Date: 13.DEC.2023 23:22:56

LTE Band 26 / 15MHz

Lowest Band Edge / 1 RB 64QAM



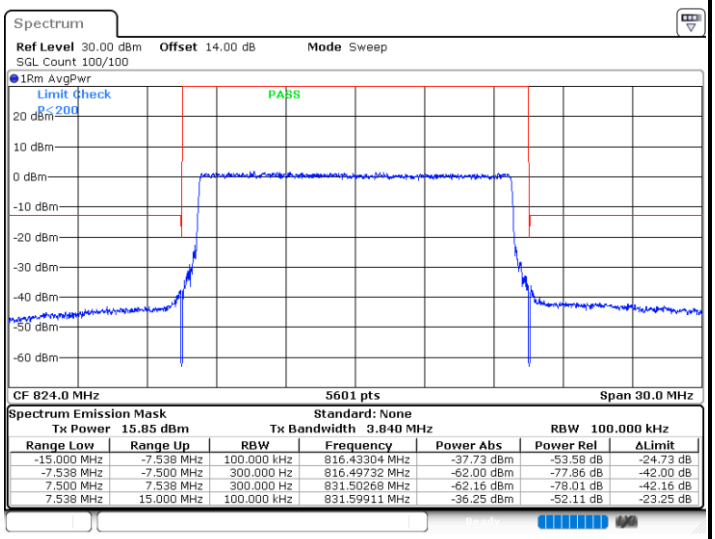
Spectrum Emission Mask — Standard: None

Tx Power -38.80 dBm — Tx Bandwidth 3.840 MHz — RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.45982 MHz	-31.47 dBm	7.33 dB	-18.47 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.49732 MHz	-54.66 dBm	-15.85 dB	-34.66 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.53482 MHz	-80.69 dBm	-41.89 dB	-60.69 dB
7.538 MHz	15.000 MHz	100.000 kHz	832.71875 MHz	-48.01 dBm	-9.20 dB	-35.01 dB

Date: 13.DEC.2023 23:30:45

Lowest Band Edge / Full RB 64QAM



Spectrum Emission Mask — Standard: None

Tx Power 15.85 dBm — Tx Bandwidth 3.840 MHz — RBW 100.000 kHz

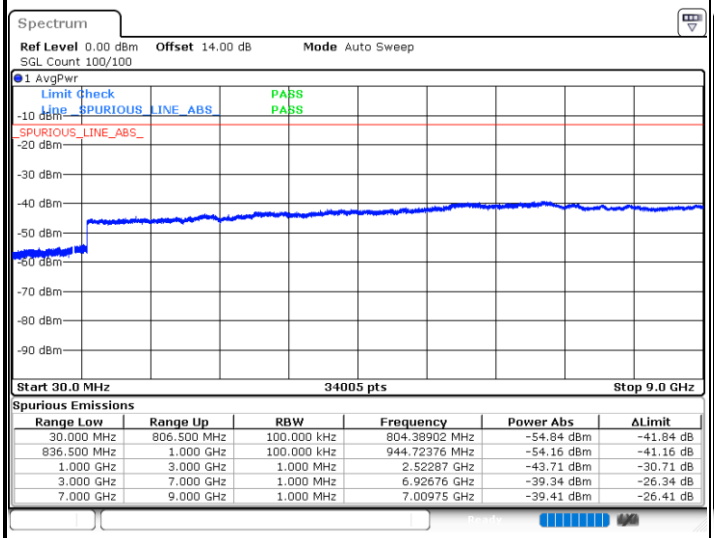
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.43304 MHz	-37.73 dBm	-53.58 dB	-24.73 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.49732 MHz	-62.00 dBm	-77.86 dB	-42.00 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.50268 MHz	-62.16 dBm	-78.01 dB	-42.16 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.59911 MHz	-36.25 dBm	-52.11 dB	-23.25 dB

Date: 13.DEC.2023 23:24:19

Emission masks – Out of band emissions

LTE Band 26 / 1.4MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	804.38902 MHz	-54.84 dBm	-41.84 dB
836.500 MHz	1.000 GHz	100.000 kHz	944.72376 MHz	-54.16 dBm	-41.16 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.52287 GHz	-43.71 dBm	-30.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92676 GHz	-39.34 dBm	-26.34 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00975 GHz	-39.41 dBm	-26.41 dB

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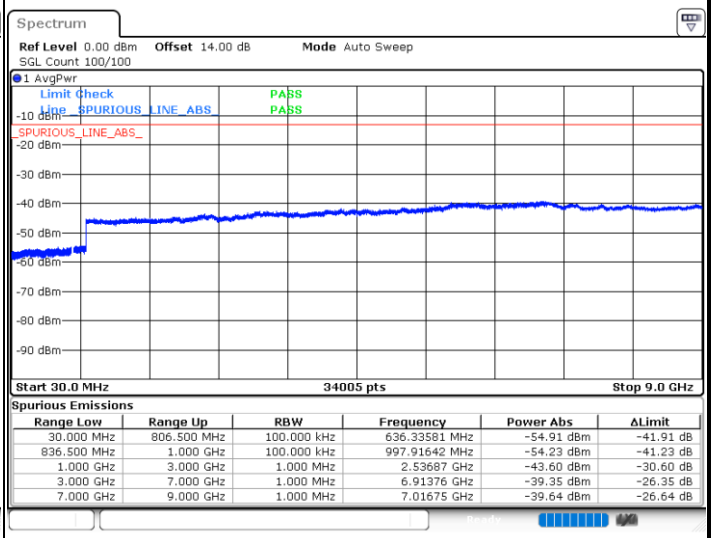
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	636.33581 MHz	-54.91 dBm	-41.91 dB
836.500 MHz	1.000 GHz	100.000 kHz	997.91642 MHz	-54.23 dBm	-41.23 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.53687 GHz	-43.60 dBm	-30.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91376 GHz	-39.35 dBm	-26.35 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.01675 GHz	-39.64 dBm	-26.64 dB

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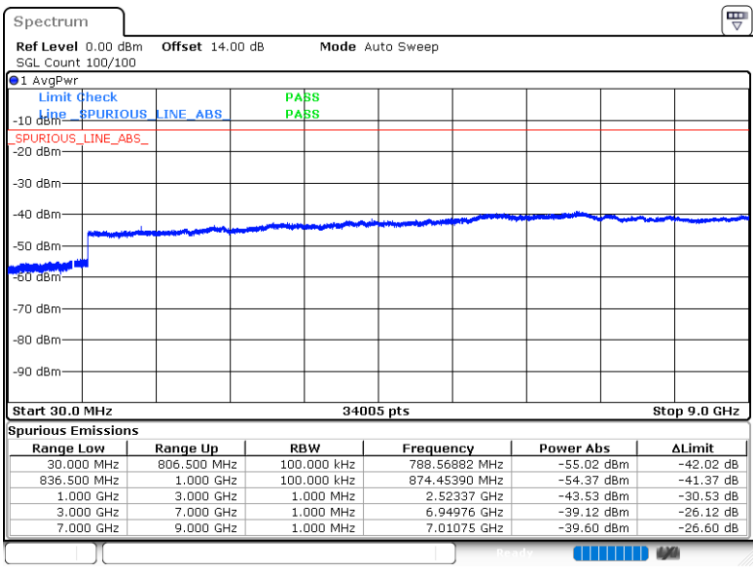
Highest Channel / QPSK



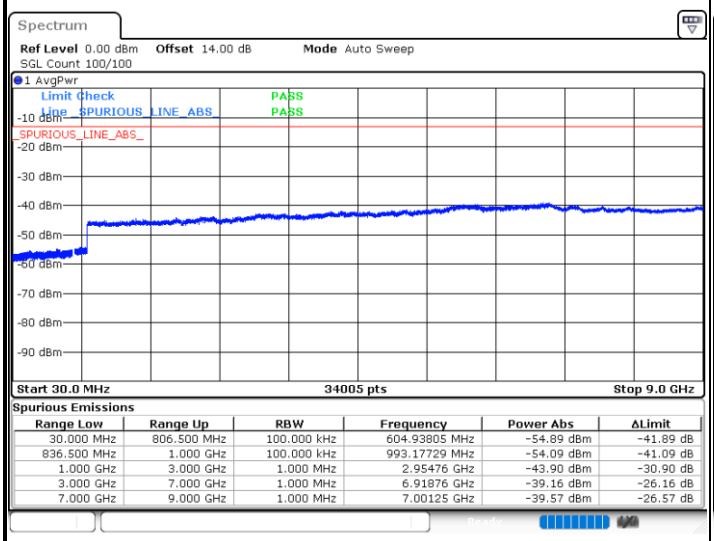
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	788.56882 MHz	-55.02 dBm	-42.02 dB
836.500 MHz	1.000 GHz	100.000 kHz	874.45390 MHz	-54.37 dBm	-41.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.52337 GHz	-43.53 dBm	-30.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94976 GHz	-39.12 dBm	-26.12 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.01075 GHz	-39.60 dBm	-26.60 dB

Date: 13.DEC.2023 22:19:23

LTE Band 26 / 3MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	604.93805 MHz	-54.89 dBm	-41.89 dB
836.500 MHz	1.000 GHz	100.000 kHz	993.17729 MHz	-54.09 dBm	-41.09 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95476 GHz	-43.90 dBm	-30.90 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91876 GHz	-39.16 dBm	-26.16 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00125 GHz	-39.57 dBm	-26.57 dB

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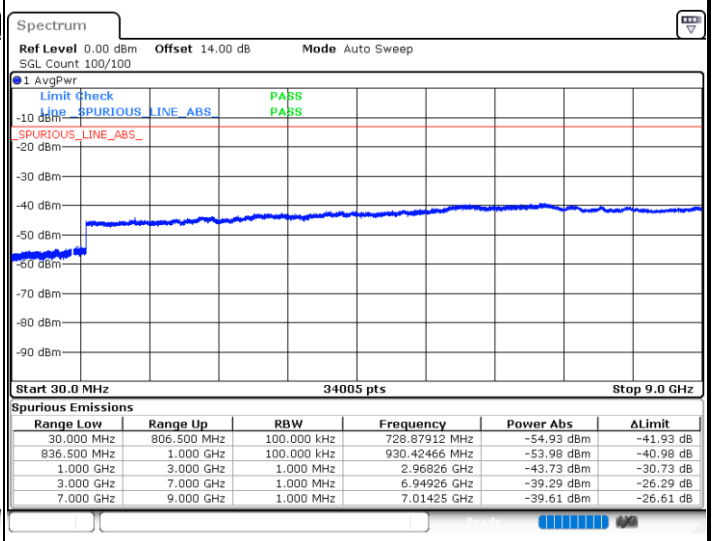
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	728.87912 MHz	-54.93 dBm	-41.93 dB
836.500 MHz	1.000 GHz	100.000 kHz	930.42466 MHz	-53.98 dBm	-40.98 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96826 GHz	-43.73 dBm	-30.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94926 GHz	-39.29 dBm	-26.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.01425 GHz	-39.61 dBm	-26.61 dB

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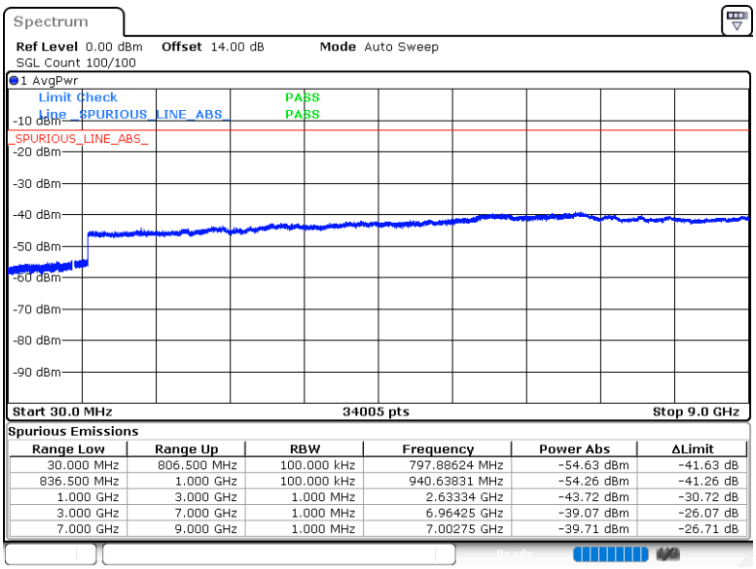
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	797.88624 MHz	-54.63 dBm	-41.63 dB
836.500 MHz	1.000 GHz	100.000 kHz	940.63831 MHz	-54.26 dBm	-41.26 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63334 GHz	-43.72 dBm	-30.72 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96425 GHz	-39.07 dBm	-26.07 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00275 GHz	-39.71 dBm	-26.71 dB

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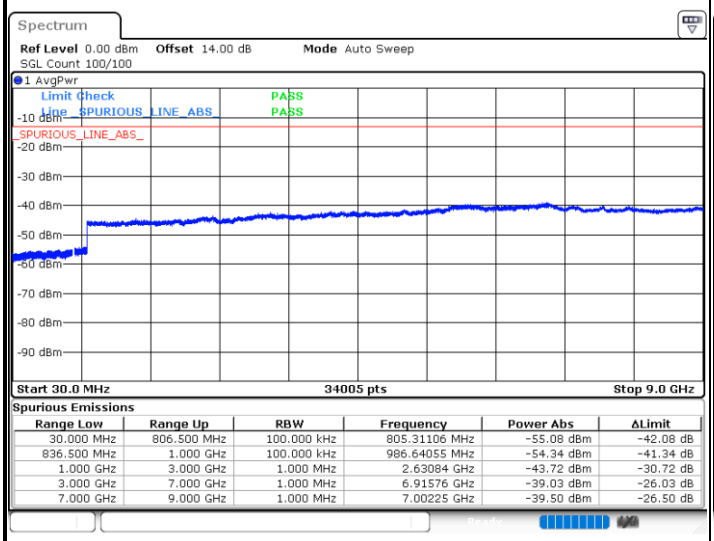
LTE Band 26 / 5MHz

Lowest Channel / QPSK

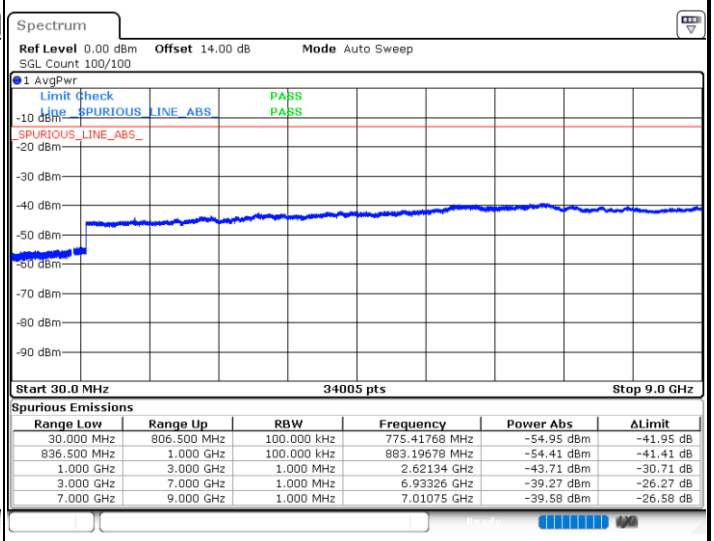


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	805.31106 MHz	-55.08 dBm	-42.08 dB
836.500 MHz	1.000 GHz	100.000 kHz	986.64055 MHz	-54.34 dBm	-41.34 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63084 GHz	-43.72 dBm	-30.72 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91576 GHz	-39.03 dBm	-26.03 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00225 GHz	-39.50 dBm	-26.50 dB

Date: 13.DEC.2023 22:26:28

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	775.41768 MHz	-54.95 dBm	-41.95 dB
836.500 MHz	1.000 GHz	100.000 kHz	883.19678 MHz	-54.41 dBm	-41.41 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62134 GHz	-43.71 dBm	-30.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93326 GHz	-39.27 dBm	-26.27 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.01075 GHz	-39.58 dBm	-26.58 dB

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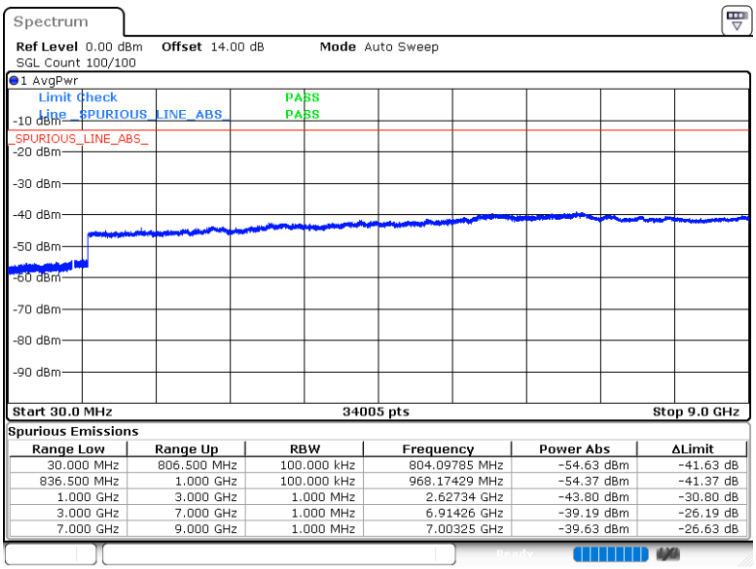
Highest Channel / QPSK



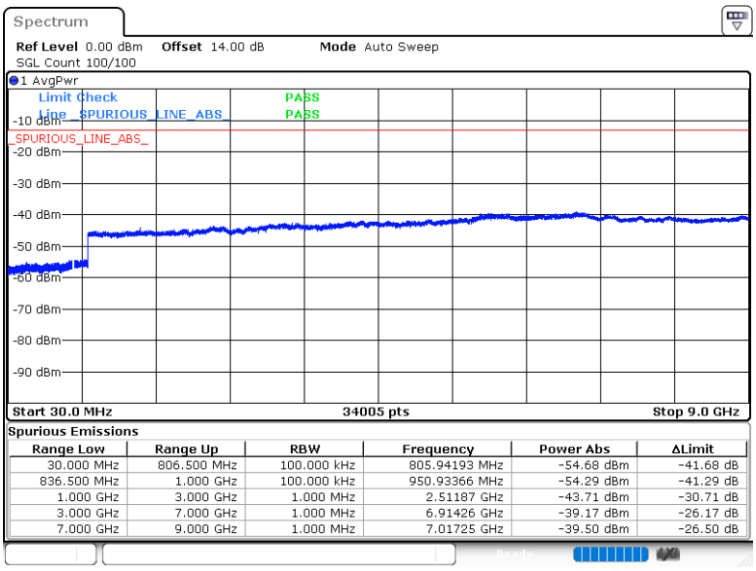
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	804.09785 MHz	-54.63 dBm	-41.63 dB
836.500 MHz	1.000 GHz	100.000 kHz	968.17429 MHz	-54.37 dBm	-41.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62734 GHz	-43.80 dBm	-30.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91426 GHz	-39.19 dBm	-26.19 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00325 GHz	-39.63 dBm	-26.63 dB

Date: 13.DEC.2023 22:36:11

LTE Band 26 / 10MHz

Middle Channel / QPSK



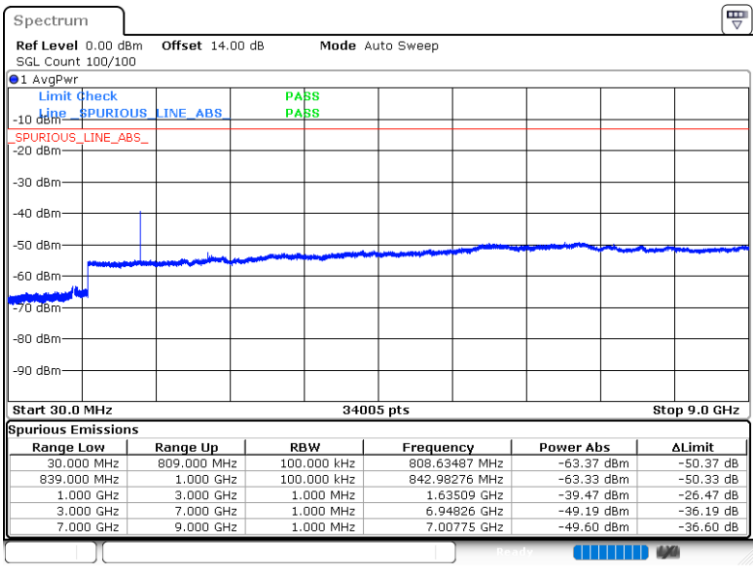
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	805.94193 MHz	-54.68 dBm	-41.68 dB
836.500 MHz	1.000 GHz	100.000 kHz	950.93366 MHz	-54.29 dBm	-41.29 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.51187 GHz	-43.71 dBm	-30.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91426 GHz	-39.17 dBm	-26.17 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.01725 GHz	-39.50 dBm	-26.50 dB

Date: 13.DEC.2023 22:50:32

LTE Band 26 / 15MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	808.63487 MHz	-63.37 dBm	-50.37 dB
839.000 MHz	1.000 GHz	100.000 kHz	842.98276 MHz	-63.33 dBm	-50.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63509 GHz	-39.47 dBm	-26.47 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94826 GHz	-49.19 dBm	-36.19 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00775 GHz	-49.60 dBm	-36.60 dB

Date: 13.DEC.2023 23:27:32

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note: Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Chris	Temperature :	23~25℃
		Relative Humidity :	41~42%

LTE Band 26 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1632	-67.20	-13	-54.20	-74.17	1.58	10.70	H
	2440	-62.05	-13	-49.05	-70.30	2.102	12.50	H
	3256	-61.44	-13	-48.44	-70.33	2.856	13.90	H
	1632	-66.18	-13	-53.18	-73.15	1.58	10.70	V
	2440	-60.66	-13	-47.66	-68.91	2.10	12.50	V
	3256	-61.38	-13	-48.38	-70.27	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.