FCC RF Test Report

APPLICANT	: Motorola Mobility LLC
EQUIPMENT	: Mobile Cellular Phone
BRAND NAME	: Motorola
MODEL NAME	: XT2255-3
FCC ID	: IHDT56AF8
STANDARD	: 47 CFR Part 2, 27(M)
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	: Jul. 01, 2022 ~ Jul. 10, 2022

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.

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
FG253103-01C	Rev. 01	Initial issue of report	Jul. 27, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38) (Band 41)	EIRP < 2Watt	PASS	-
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)	PASS	-
3.8	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< $55+10\log_{10}$(P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< $55+10\log_{10}$(P[Watts])	PASS	Under limit 23.81 dB at 7580.000 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

Motorola Mobility LLC
222 W, Merchandise Mart Plaza,Chicago,IL60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W, Merchandise Mart Plaza,Chicago,IL60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2255-3
FCC ID	IHDT56AF8
IMEI Code	Conducted: 356510960017232/356510960017240 Radiation: 356510960014296/356510960014304
HW Version	DVT2
SW Version	S3SV32.14
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Rx Frequency	LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Bandwidth	LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 7 : 22.61 dBm LTE Band 38 : 22.85 dBm; LTE Band 41 : 22.88 dBm
Antenna Gain	LTE Band 7 : -0.3 dBi LTE Band 38 : -0.8 dBi LTE Band 41 : -0.1 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM(Downlink only)

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

LTE Band 7		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	2510.0 ~ 2560.0	0.1702	17M9G7D	0.1406	17M9W7D
LTE Band 38		**QPSK**		**16QAM/64QAM**	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	2580.0 ~ 2610.0	0.1603	17M8G7D	0.1318	17M9W7D
LTE Band 41		**QPSK**		**16QAM/64QAM**	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	2506.0 ~ 2680.0	0.1897	17M8G7D	0.1476	17M9W7D

Note:

1. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.
2. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.

1.7 Testing Location

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 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

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

- 47 CFR Part 2, 27(M)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

1.10 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-331
AC Adapter 1(EU)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-332
AC Adapter 1(UK)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-333
AC Adapter 1(IN)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-334
AC Adapter 1(AR)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-336
AC Adapter 2(US)	**Brand Name**	Motorola (Acbel)	**Model Name**	MC-331
AC Adapter 2(EU)	**Brand Name**	Motorola (Acbel)	**Model Name**	MC-332
AC Adapter 2(UK)	**Brand Name**	Motorola (Acbel)	**Model Name**	MC-333
AC Adapter 3(US)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-331
AC Adapter 3(EU)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-332
AC Adapter 3(AR)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-336
Battery 1	**Brand Name**	Motorola(ATL)	**Model Name**	NE50
Battery 2	**Brand Name**	Motorola(Sunwoda)	**Model Name**	NE50
Earphone 1	**Brand Name**	Motorola(NLD)	**Model Name**	MH202
Earphone 2	**Brand Name**	Motorola (Lyand)	**Model Name**	MH202
USB Cable 1	**Brand Name**	Motorola(Saibao)	**Model Name**	SHQ-A110A
USB Cable 2	**Brand Name**	Motorola(KINGPOWER)	**Model Name**	K235-07990-H0

2. Test Configuration of Equipment Under Test

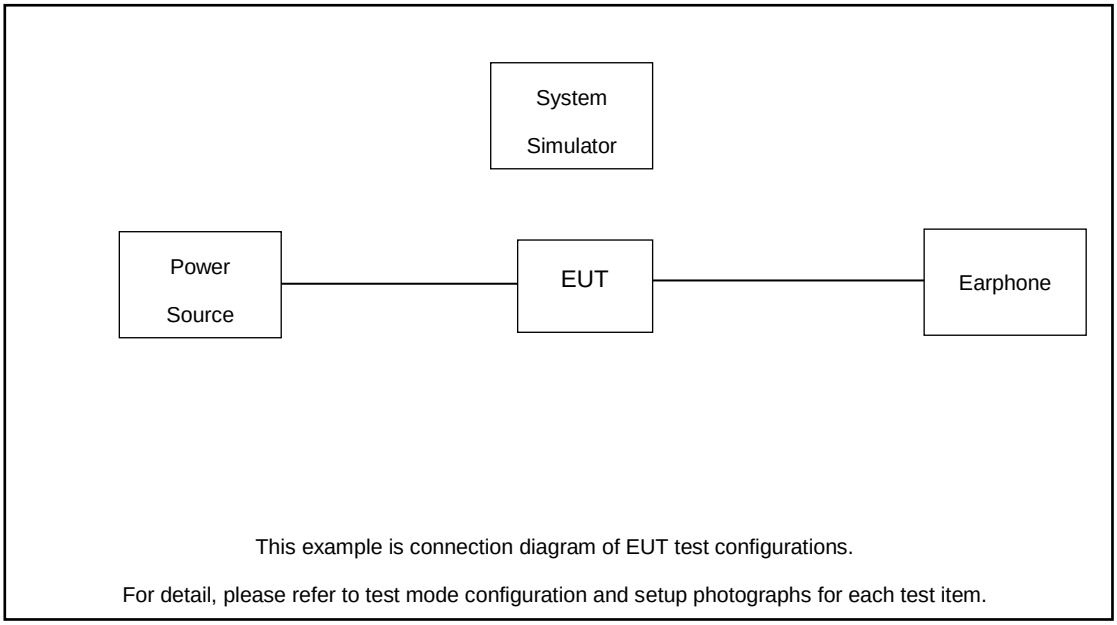
2.1 Test Mode

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/Z-plane)

Test Items	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	7	-	-	v	v	v	v	v	v	v	v		v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v		v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v		v	v	v	v
Peak-to-Average Ratio	7	-	-				v	v	v	v			v		v	
	41						v	v	v	v			v		v	
26dB and 99% Bandwidth	7	-	-				v	v	v				v		v	
	41	-	-				v	v	v				v		v	
Conducted Band Edge	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7	-	-	v	v	v	v	v			v			v	v	v
	41	-	-	v	v	v	v	v			v			v	v	v
Frequency Stability	7	-	-		v			v					v		v	
	41	-	-		v			v					v		v	
E.R.P / E.I.R.P	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	38	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	7	Worst Case													v	
	41	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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820/8821	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 between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.0 dB.

Example :

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

= 6.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 7 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 38 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5

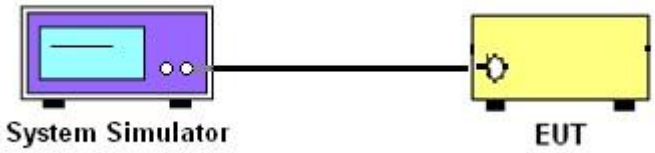
3. Conducted Test Items

3.1 Measuring Instruments

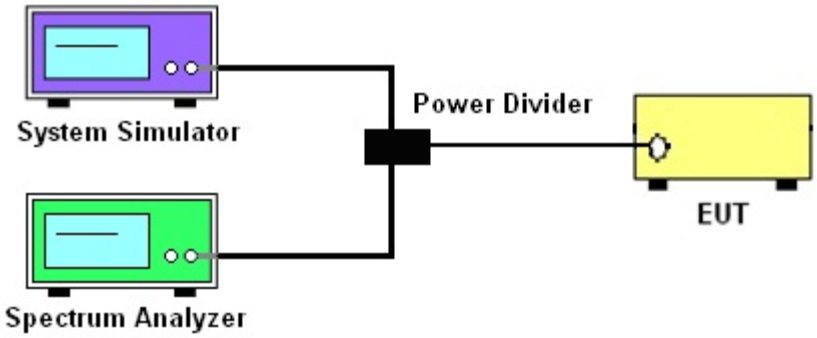
See list of measuring instruments of this test report.

3.2 Test Setup

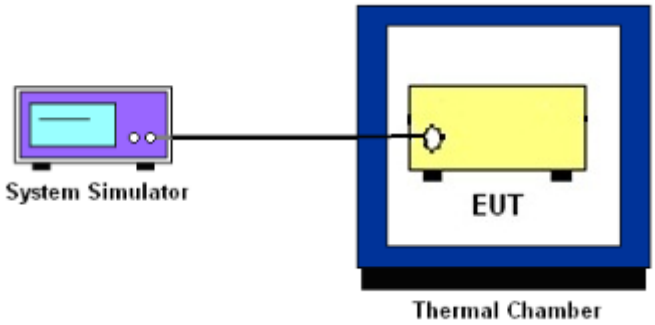
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 7 and Band 38 and Band 41.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

1. The 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.

3.5 Peak-to-Average Ratio

3.5.1 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.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 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.

3.6.2 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.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.7.2 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 RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Offset has included the duty factor for LTE Band 41. Duty factor =10 log (1/x), where x is the measured duty cycle.
9. 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.
10. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.
11. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

For Band 7,38,41:

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 55 + 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.

3.8.2 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. 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 RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Offset has included the duty factor for LTE Band 41. Duty factor =10 log (1/x), where x is the measured duty cycle.
9. Taking the record of maximum spurious emission.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
12. For Band 7, 38, 41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 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.

3.9.3 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.

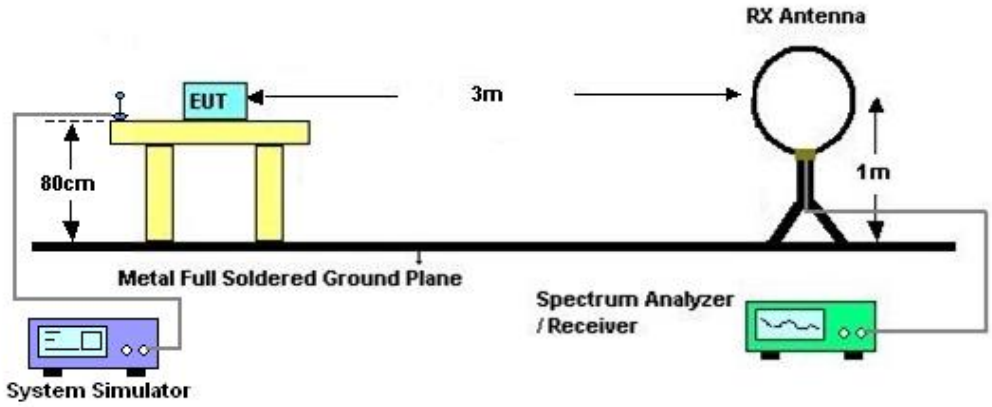
4. Radiated Test Items

4.1 Measuring Instruments

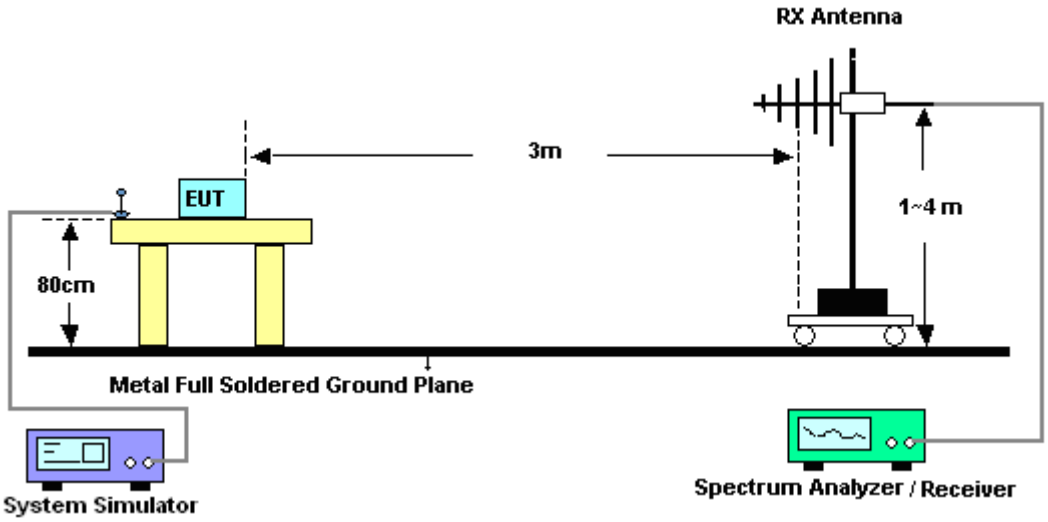
See list of measuring instruments of this test report.

4.2 Test Setup

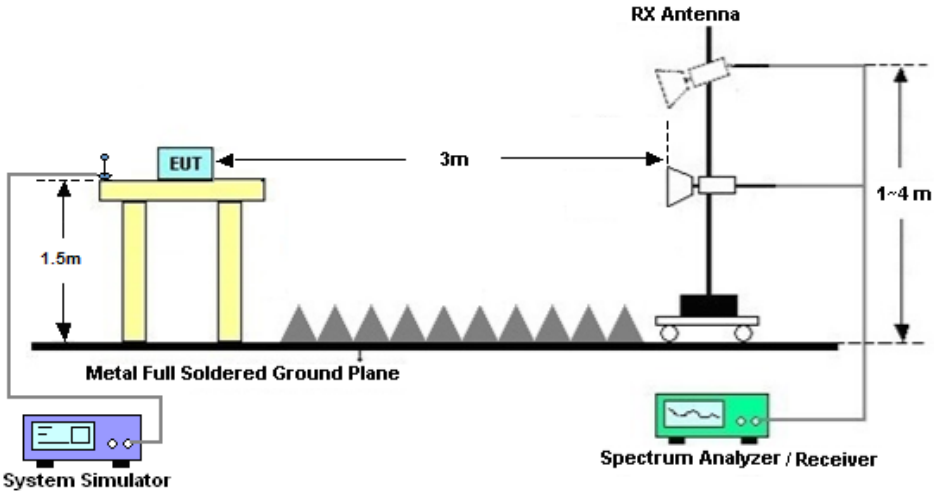
4.2.1 For radiated test below 30MHz



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

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26.

For Band 7, 38, 41

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 55 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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.
13. For Band 7, 38, 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

5. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Jul. 06, 2022~ Jul. 10, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2021	Jul. 06, 2022~ Jul. 10, 2022	Aug. 25, 2022	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 12, 2021	Jul. 06, 2022~ Jul. 10, 2022	Jul. 11, 2022	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57541079	10Hz-44G,MAX 30dB	Oct. 14, 2021	Jul. 01, 2022	Oct. 13, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Jul. 01, 2022	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2022	Jul. 01, 2022	May 29, 2023	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 18, 2021	Jul. 01, 2022	Oct. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Jul. 01, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 05, 2022	Jul. 01, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2022	Jul. 01, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Jul. 30, 2021	Jul. 01, 2022	Jul. 29, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 13, 2021	Jul. 01, 2022	Oct. 12, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 01, 2022	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 01, 2022	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 01, 2022	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6. Uncertainty of Evaluation

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	0.56 dB
Conducted Emissions	0.92 dB
Occupied Channel Bandwidth	0.03 %
Conducted Power Spectral Density	0.54 dB
Frequency tolerance	0.414ppm

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB

Appendix A. Test Results of Conducted Test

Test Engineer :	Lex Wu	Temperature :	22~23℃
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and EIRP

LTE Band 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20850	20850	21350			
Frequency (MHz)				2510	2535	2560	L	M	H
20	QPSK	1	0	22.50	22.61	22.51	0.1660	0.1702	0.1663
20	QPSK	1	99	22.32	22.46	22.41	0.1592	0.1644	0.1626
20	QPSK	100	0	21.59	21.66	21.65	0.1346	0.1368	0.1365
20	16QAM	1	0	21.69	21.78	21.74	0.1377	0.1406	0.1393
20	64QAM	1	0	20.75	20.82	20.79	0.1109	0.1127	0.1119
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	22.38	22.56	22.41	0.1614	0.1683	0.1626
15	16QAM	1	0	21.55	21.73	21.60	0.1334	0.1390	0.1349
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	22.34	22.50	22.45	0.1600	0.1660	0.1641
10	16QAM	1	0	21.57	21.74	21.70	0.1340	0.1393	0.1380
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	22.40	22.51	22.47	0.1622	0.1663	0.1648
5	16QAM	1	0	21.56	21.73	21.60	0.1337	0.1390	0.1349

LTE Band 38									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610	L	M	H
20	QPSK	1	0	22.72	22.85	22.78	0.1556	0.1603	0.1578
20	QPSK	1	99	22.64	22.68	22.63	0.1528	0.1542	0.1524
20	QPSK	100	0	21.70	21.83	21.77	0.1230	0.1268	0.1250
20	16QAM	1	0	21.87	22.00	21.92	0.1279	0.1318	0.1294
20	64QAM	1	0	20.50	20.59	20.48	0.0933	0.0953	0.0929
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H
15	QPSK	1	0	22.60	22.75	22.74	0.1514	0.1567	0.1563
15	16QAM	1	0	21.81	21.91	21.78	0.1262	0.1291	0.1253
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	22.58	22.76	22.66	0.1507	0.1570	0.1535
10	16QAM	1	0	21.81	21.90	21.85	0.1262	0.1288	0.1274
Channel				37775	38000	38225	EIRP(W)		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H
5	QPSK	1	0	22.60	22.82	22.64	0.1514	0.1592	0.1528
5	16QAM	1	0	21.84	21.92	21.81	0.1271	0.1294	0.1262

LTE Band 41									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				39750	40620	41490			
Frequency (MHz)				2506	2593	2680	L	M	H
20	QPSK	1	0	22.60	22.88	22.76	0.1778	0.1897	0.1845
20	QPSK	1	99	22.55	22.67	22.63	0.1758	0.1807	0.1791
20	QPSK	100	0	21.61	21.72	21.65	0.1416	0.1452	0.1429
20	16QAM	1	0	21.69	21.79	21.74	0.1442	0.1476	0.1459
20	64QAM	1	0	20.47	20.61	20.48	0.1089	0.1125	0.1091
Channel				39725	40620	41515	EIRP(W)		
Frequency (MHz)				2503.5	2593	2682.5	L	M	H
15	QPSK	1	0	22.51	22.80	22.68	0.1742	0.1862	0.1811
15	16QAM	1	0	21.66	21.65	21.62	0.1432	0.1429	0.1419
Channel				39700	40620	41540	EIRP(W)		
Frequency (MHz)				2501	2593	2685	L	M	H
10	QPSK	1	0	22.47	22.74	22.65	0.1726	0.1837	0.1799
10	16QAM	1	0	21.60	21.75	21.62	0.1413	0.1462	0.1419
Channel				39675	40620	41565	EIRP(W)		
Frequency (MHz)				2498.5	2593	2687.5	L	M	H
5	QPSK	1	0	22.51	22.85	22.67	0.1742	0.1884	0.1807
5	16QAM	1	0	21.66	21.68	21.67	0.1432	0.1439	0.1435

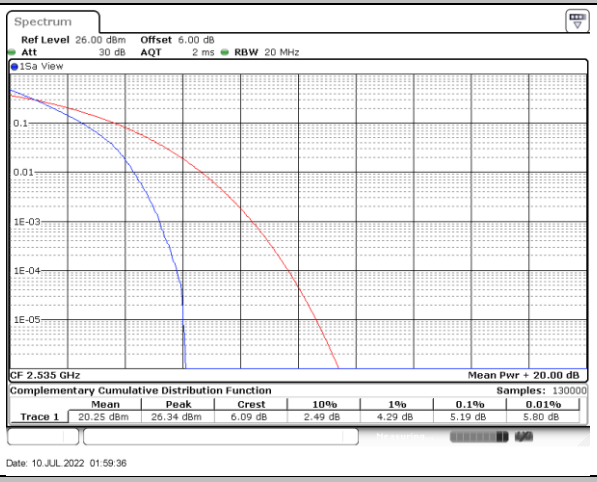
LTE Band 7

Peak-to-Average Ratio

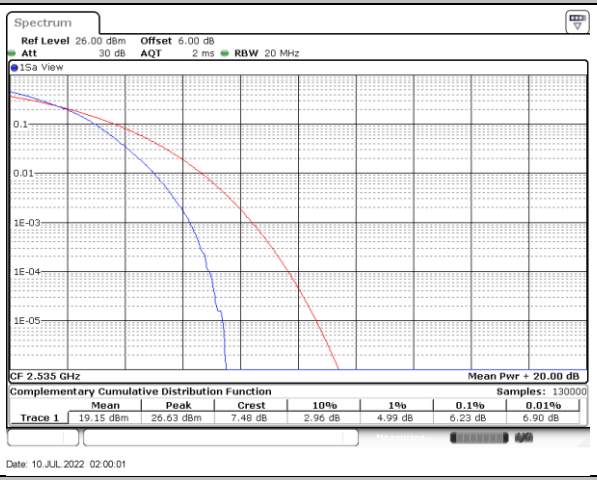
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.19	6.23	6.46	PASS

LTE Band 7 / 20MHz

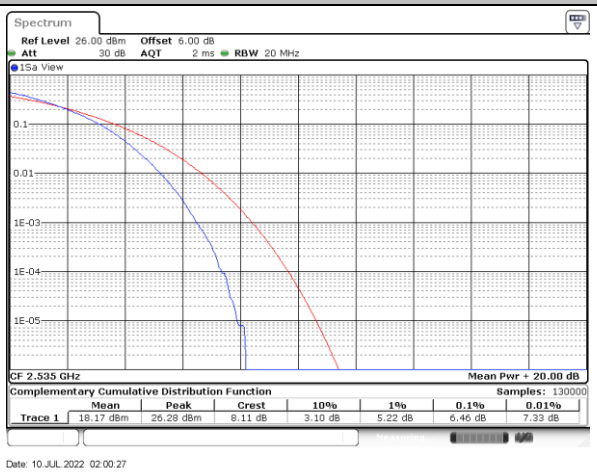
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM

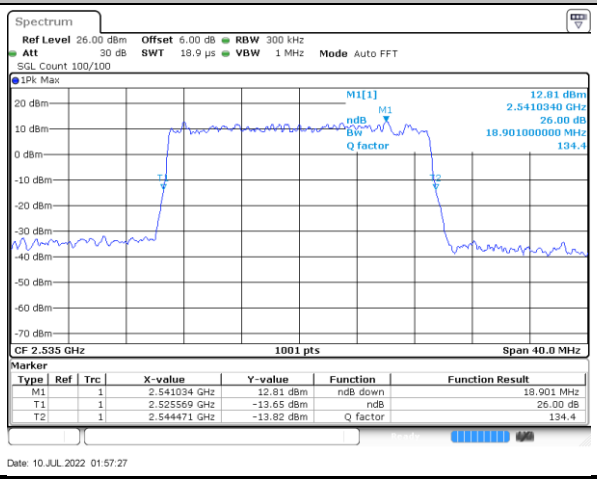


26dB Bandwidth

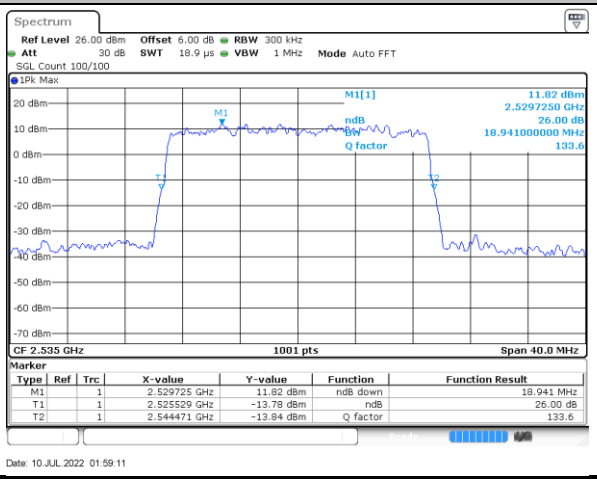
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.90	18.94

LTE Band 7

Middle Channel / 20MHz / QPSK



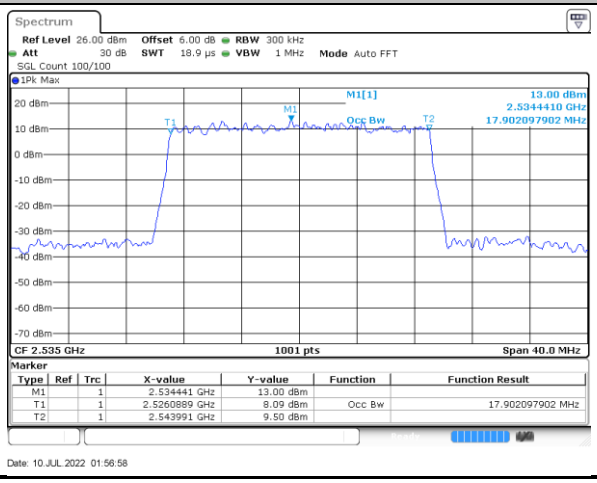
Middle Channel / 20MHz / 16QAM

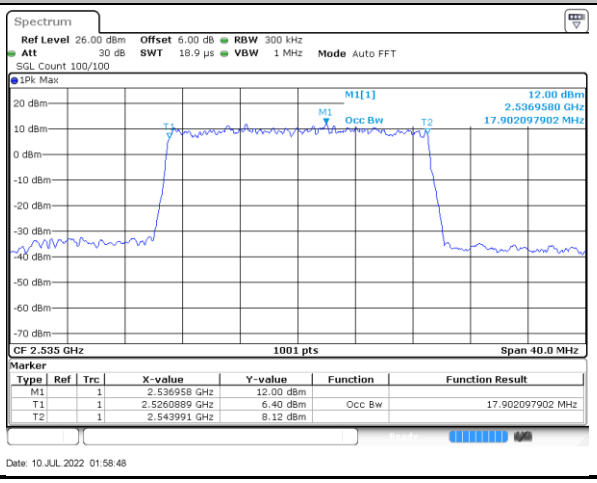


Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.90

LTE Band 7	
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM

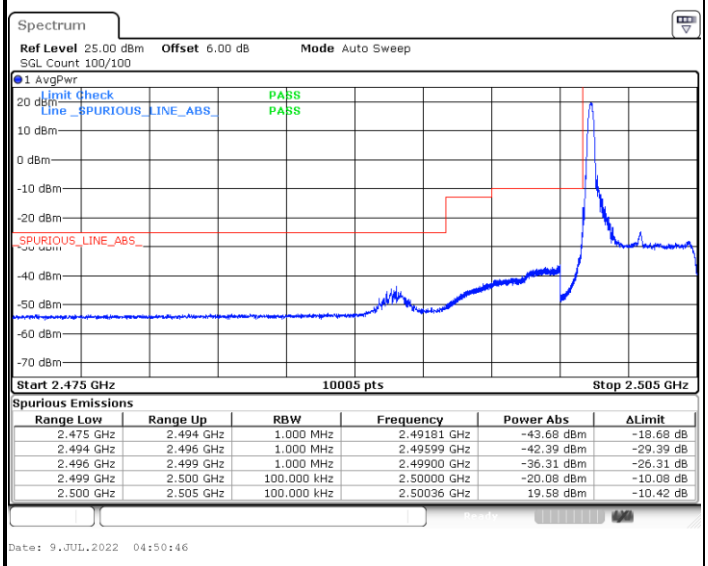




Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB

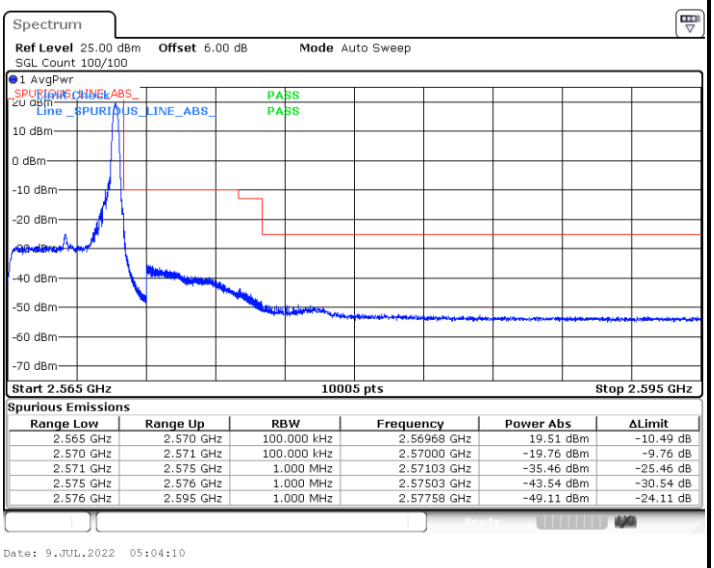


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49181 GHz	-43.68 dBm	-18.68 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49599 GHz	-42.39 dBm	-29.39 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49900 GHz	-36.31 dBm	-26.31 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-20.08 dBm	-10.08 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50036 GHz	19.58 dBm	-10.42 dB

Date: 9.JUL.2022 04:50:46

Highest Band Edge / 1 RB

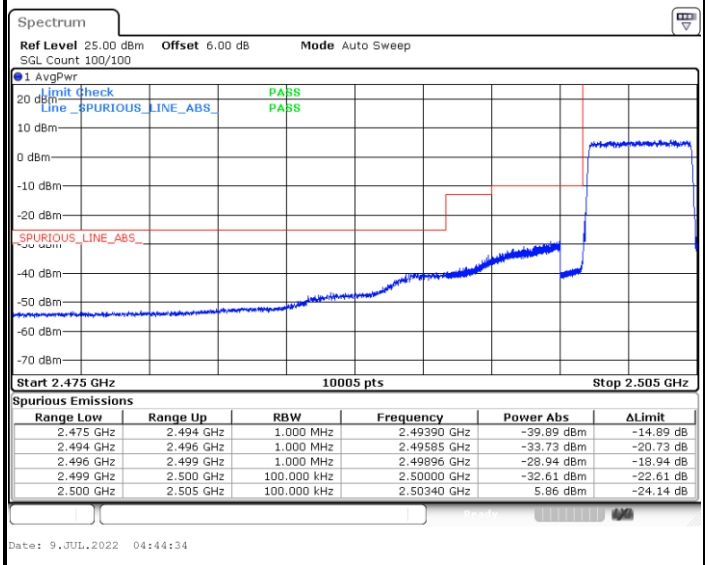


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56968 GHz	19.51 dBm	-10.49 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-19.76 dBm	-9.76 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57103 GHz	-35.46 dBm	-25.46 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57503 GHz	-43.54 dBm	-30.54 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57758 GHz	-49.11 dBm	-24.11 dB

Date: 9.JUL.2022 05:04:10

Lowest Band Edge / Full RB

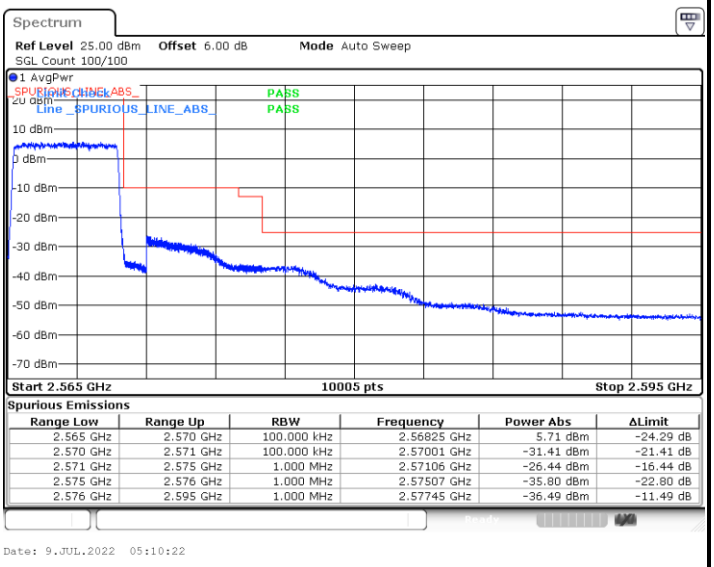


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49390 GHz	-39.89 dBm	-14.89 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49585 GHz	-33.73 dBm	-20.73 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49896 GHz	-28.94 dBm	-18.94 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-32.61 dBm	-22.61 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50340 GHz	5.86 dBm	-24.14 dB

Date: 9.JUL.2022 04:44:34

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56825 GHz	5.71 dBm	-24.29 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-31.41 dBm	-21.41 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57106 GHz	-26.44 dBm	-16.44 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57507 GHz	-35.80 dBm	-22.80 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57745 GHz	-36.49 dBm	-11.49 dB

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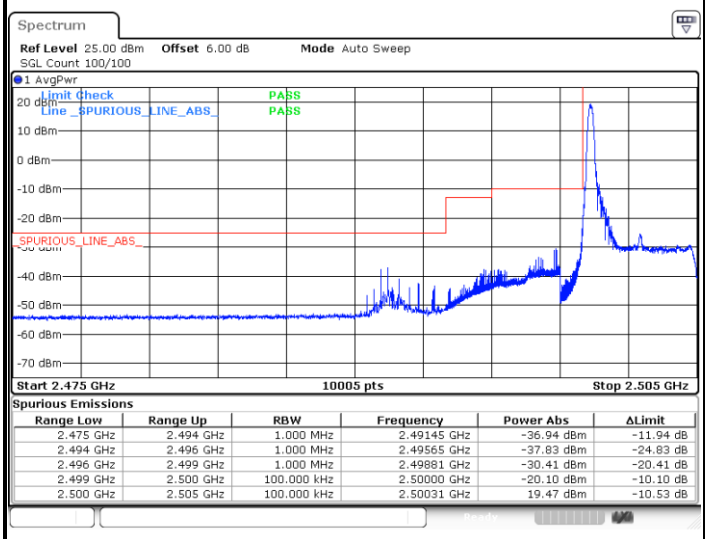
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49145 GHz	-36.94 dBm	-11.94 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49565 GHz	-37.83 dBm	-24.83 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49881 GHz	-30.41 dBm	-20.41 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-20.10 dBm	-10.10 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50031 GHz	19.47 dBm	-10.53 dB

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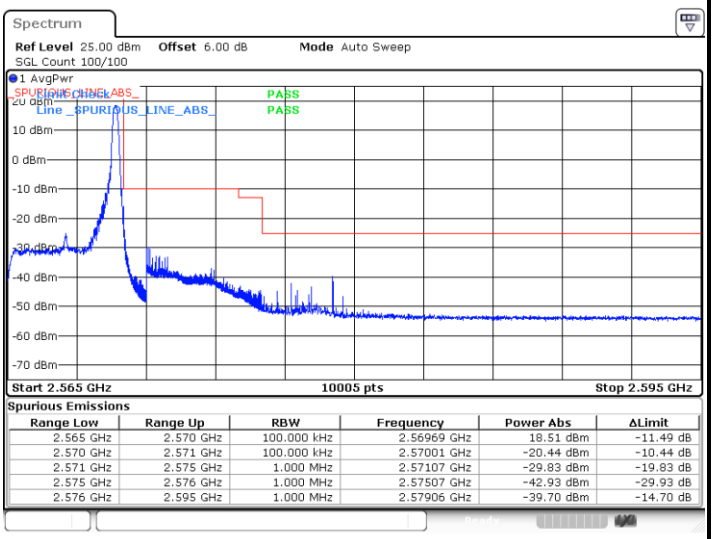
Highest Band Edge / 1 RB

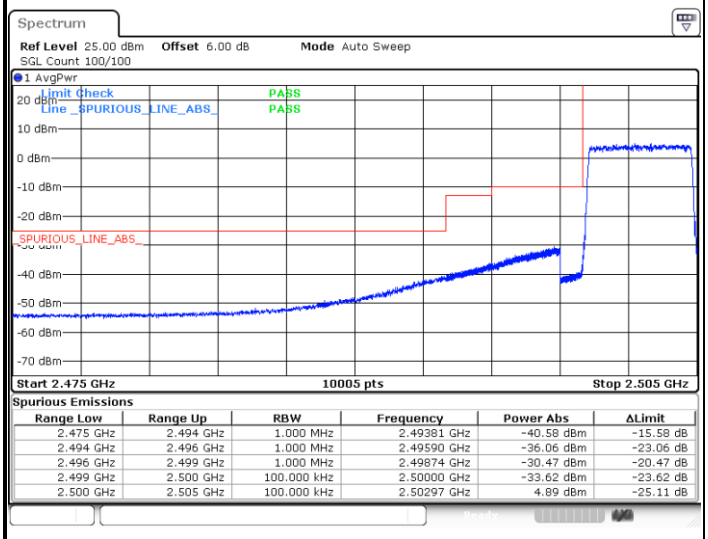


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56969 GHz	18.51 dBm	-11.49 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-20.44 dBm	-10.44 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57107 GHz	-29.83 dBm	-19.83 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57507 GHz	-42.93 dBm	-29.93 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57906 GHz	-39.70 dBm	-14.70 dB

Date: 9.JUL.2022 05:06:14

Lowest Band Edge / Full RB

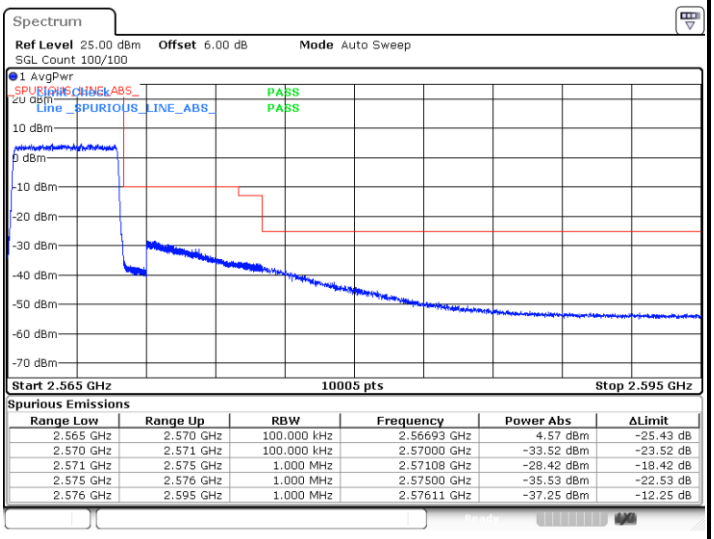


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49381 GHz	-40.58 dBm	-15.58 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49590 GHz	-36.06 dBm	-23.06 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49874 GHz	-30.47 dBm	-20.47 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-33.62 dBm	-23.62 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50297 GHz	4.89 dBm	-25.11 dB

Date: 9.JUL.2022 04:46:38

Highest Band Edge / Full RB



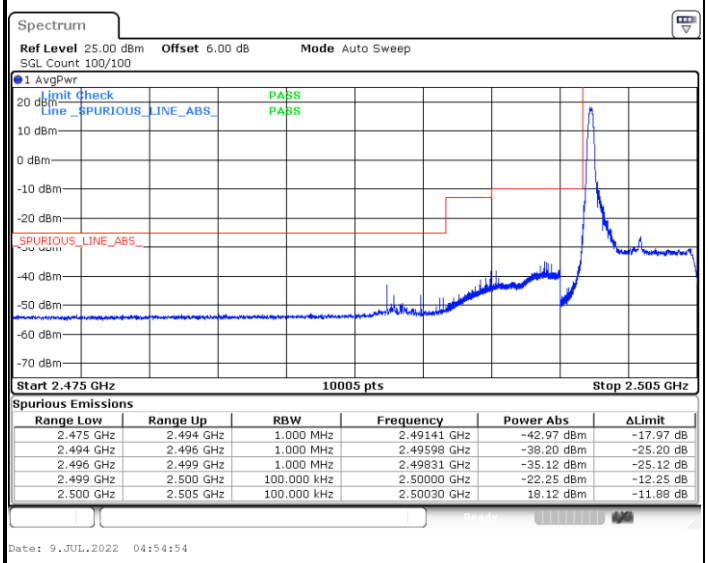
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56693 GHz	4.57 dBm	-25.43 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-33.52 dBm	-23.52 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57108 GHz	-28.42 dBm	-18.42 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57500 GHz	-35.53 dBm	-22.53 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57611 GHz	-37.25 dBm	-12.25 dB

Date: 9.JUL.2022 05:12:25

LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB

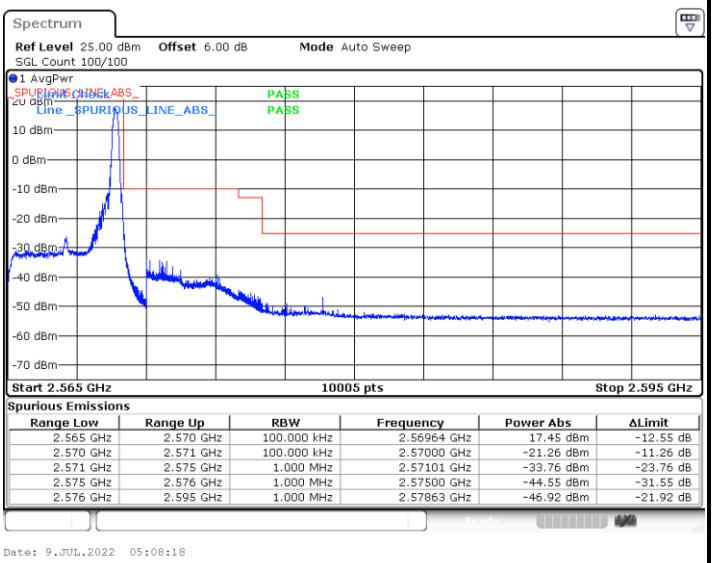


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49141 GHz	-42.97 dBm	-17.97 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49598 GHz	-38.20 dBm	-25.20 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49831 GHz	-35.12 dBm	-25.12 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-22.25 dBm	-12.25 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50030 GHz	18.12 dBm	-11.88 dB

Date: 9.JUL.2022 04:54:54

Highest Band Edge / 1 RB

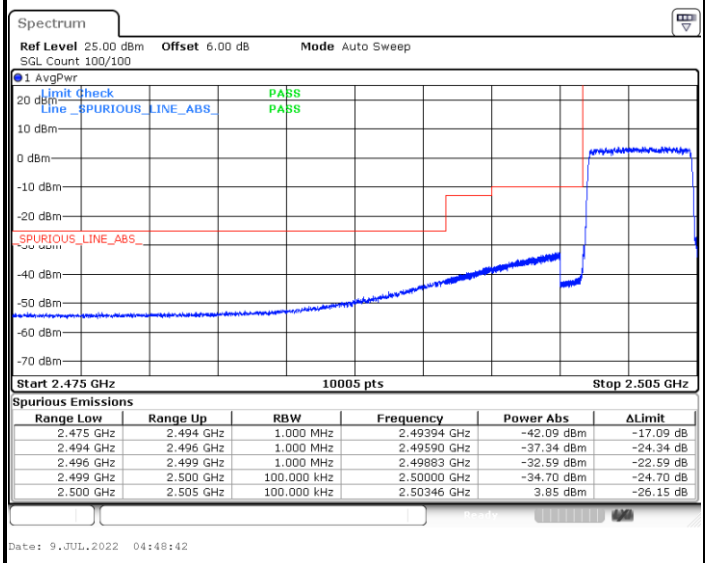


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56964 GHz	17.45 dBm	-12.55 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-21.26 dBm	-11.26 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57101 GHz	-33.76 dBm	-23.76 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57500 GHz	-44.55 dBm	-31.55 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57863 GHz	-46.92 dBm	-21.92 dB

Date: 9.JUL.2022 05:08:18

Lowest Band Edge / Full RB

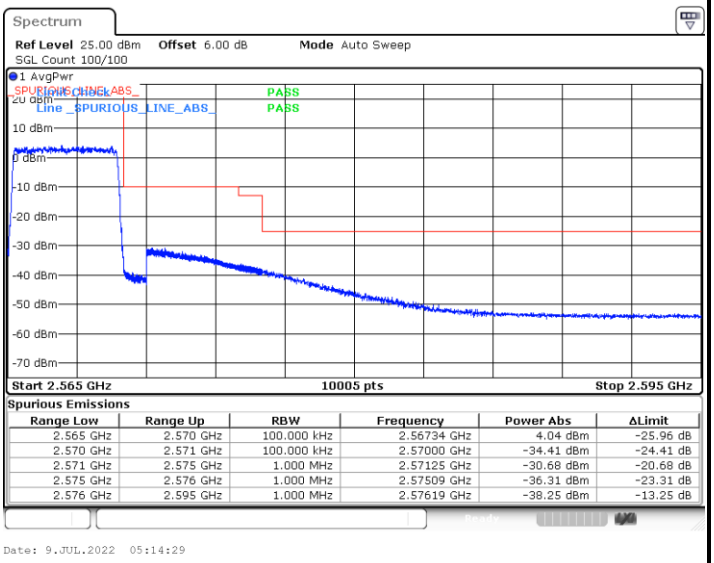


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49394 GHz	-42.09 dBm	-17.09 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49590 GHz	-37.34 dBm	-24.34 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49883 GHz	-32.59 dBm	-22.59 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-34.70 dBm	-24.70 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50346 GHz	3.85 dBm	-26.15 dB

Date: 9.JUL.2022 04:48:42

Highest Band Edge / Full RB



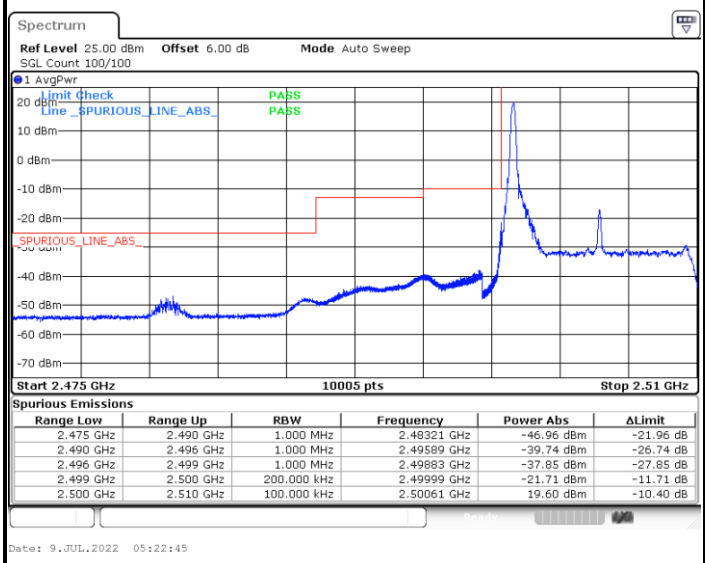
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56734 GHz	4.04 dBm	-25.96 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-34.41 dBm	-24.41 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57125 GHz	-30.68 dBm	-20.68 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57509 GHz	-36.31 dBm	-23.31 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57619 GHz	-38.25 dBm	-13.25 dB

Date: 9.JUL.2022 05:14:29

LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

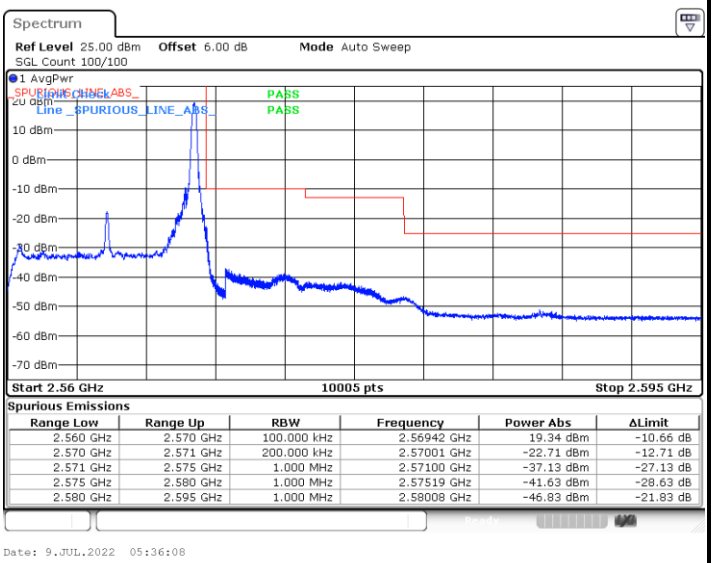


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48321 GHz	-46.96 dBm	-21.96 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49589 GHz	-39.74 dBm	-26.74 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49883 GHz	-37.85 dBm	-27.85 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49999 GHz	-21.71 dBm	-11.71 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50061 GHz	19.60 dBm	-10.40 dB

Date: 9.JUL.2022 05:22:45

Highest Band Edge / 1 RB

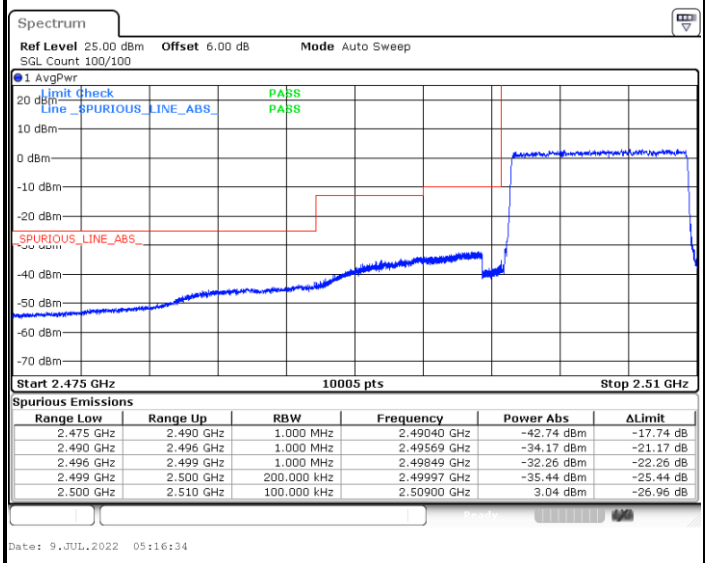


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56942 GHz	19.34 dBm	-10.66 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-22.71 dBm	-12.71 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57100 GHz	-37.13 dBm	-27.13 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57519 GHz	-41.63 dBm	-28.63 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58008 GHz	-46.83 dBm	-21.83 dB

Date: 9.JUL.2022 05:36:08

Lowest Band Edge / Full RB

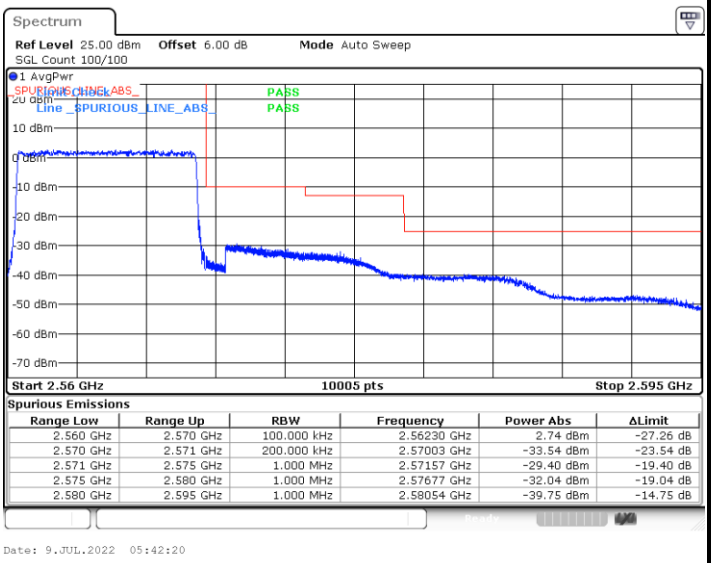


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49040 GHz	-42.74 dBm	-17.74 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49569 GHz	-34.17 dBm	-21.17 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49849 GHz	-32.26 dBm	-22.26 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49997 GHz	-35.44 dBm	-25.44 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50900 GHz	3.04 dBm	-26.96 dB

Date: 9.JUL.2022 05:16:34

Highest Band Edge / Full RB



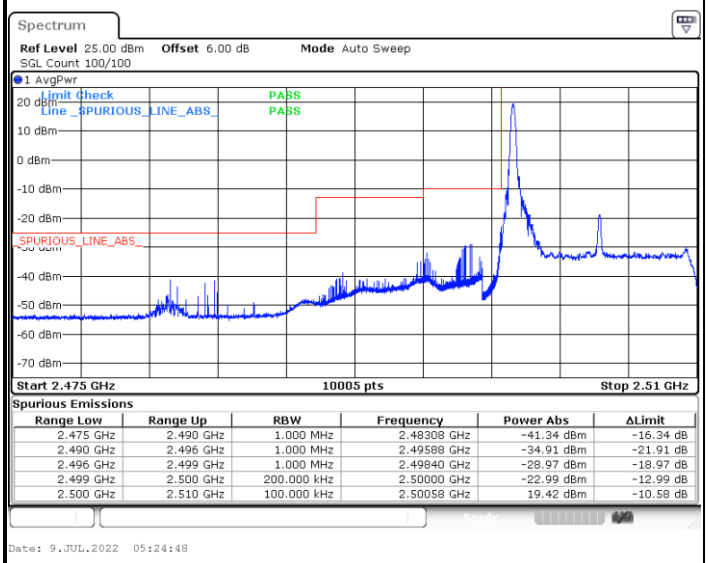
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56230 GHz	2.74 dBm	-27.26 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57003 GHz	-33.54 dBm	-23.54 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57157 GHz	-29.40 dBm	-19.40 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57677 GHz	-32.04 dBm	-19.04 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58054 GHz	-39.75 dBm	-14.75 dB

Date: 9.JUL.2022 05:42:20

LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

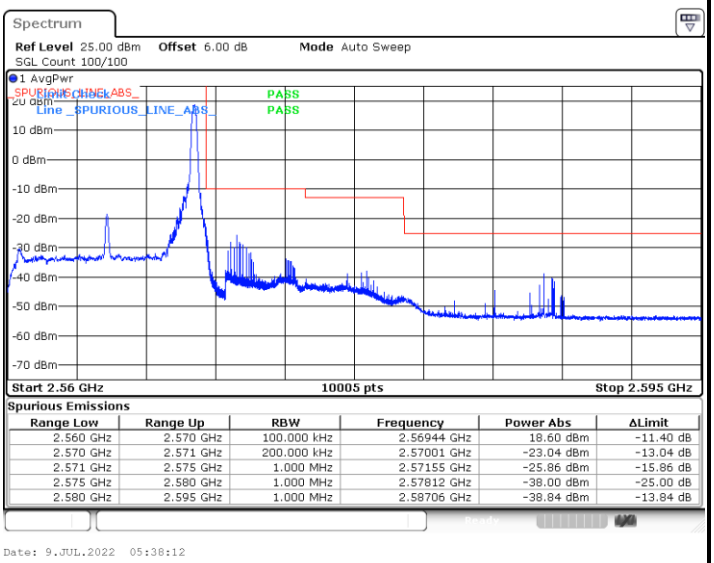


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48308 GHz	-41.34 dBm	-16.34 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49588 GHz	-34.91 dBm	-21.91 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49840 GHz	-28.97 dBm	-18.97 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.50000 GHz	-22.99 dBm	-12.99 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50058 GHz	19.42 dBm	-10.58 dB

Date: 9.JUL.2022 05:24:48

Highest Band Edge / 1 RB

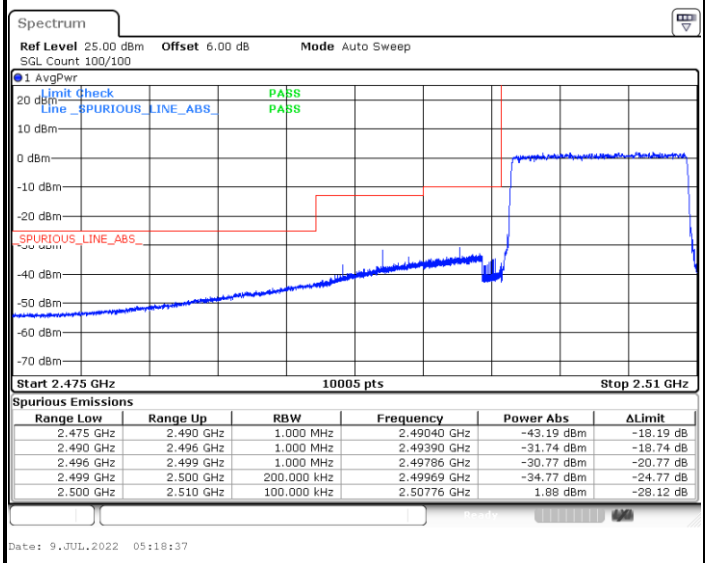


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56944 GHz	18.60 dBm	-11.40 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-23.04 dBm	-13.04 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57155 GHz	-25.86 dBm	-15.86 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57812 GHz	-38.00 dBm	-25.00 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58706 GHz	-38.84 dBm	-13.84 dB

Date: 9.JUL.2022 05:38:12

Lowest Band Edge / Full RB

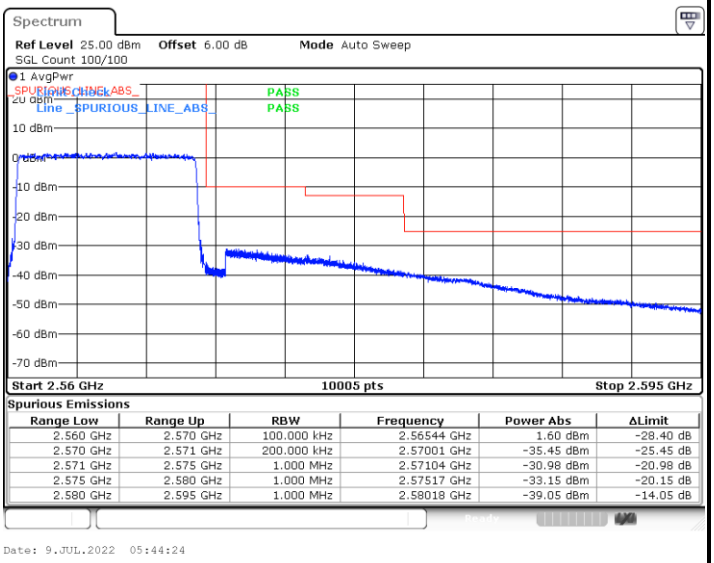


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49040 GHz	-43.19 dBm	-18.19 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49390 GHz	-31.74 dBm	-18.74 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49786 GHz	-30.77 dBm	-20.77 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49969 GHz	-34.77 dBm	-24.77 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50776 GHz	1.88 dBm	-28.12 dB

Date: 9.JUL.2022 05:18:37

Highest Band Edge / Full RB



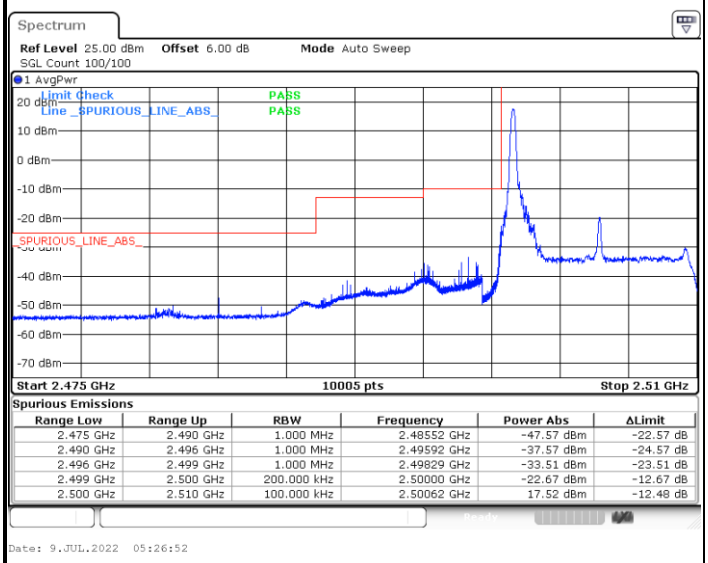
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56544 GHz	1.60 dBm	-28.40 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-35.45 dBm	-25.45 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57104 GHz	-30.98 dBm	-20.98 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57517 GHz	-33.15 dBm	-20.15 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58018 GHz	-39.05 dBm	-14.05 dB

Date: 9.JUL.2022 05:44:24

LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

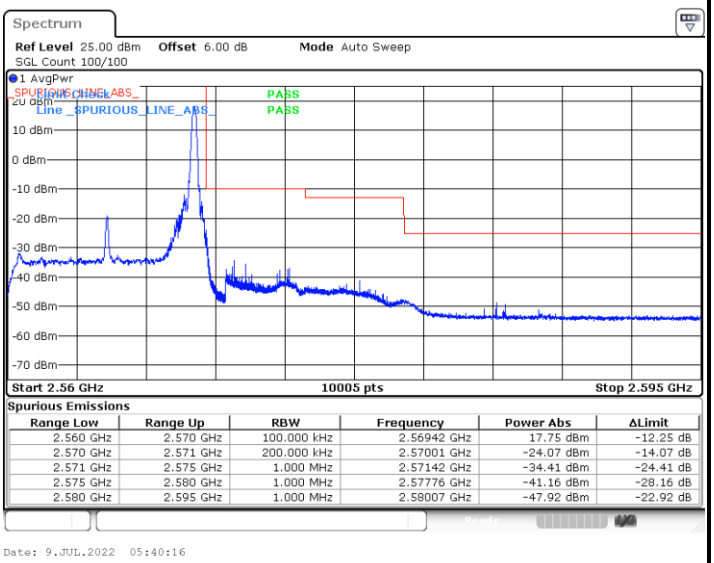


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48552 GHz	-47.57 dBm	-22.57 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49592 GHz	-37.57 dBm	-24.57 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49829 GHz	-33.51 dBm	-23.51 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.50000 GHz	-22.67 dBm	-12.67 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50062 GHz	17.52 dBm	-12.48 dB

Date: 9.JUL.2022 05:26:52

Highest Band Edge / 1 RB

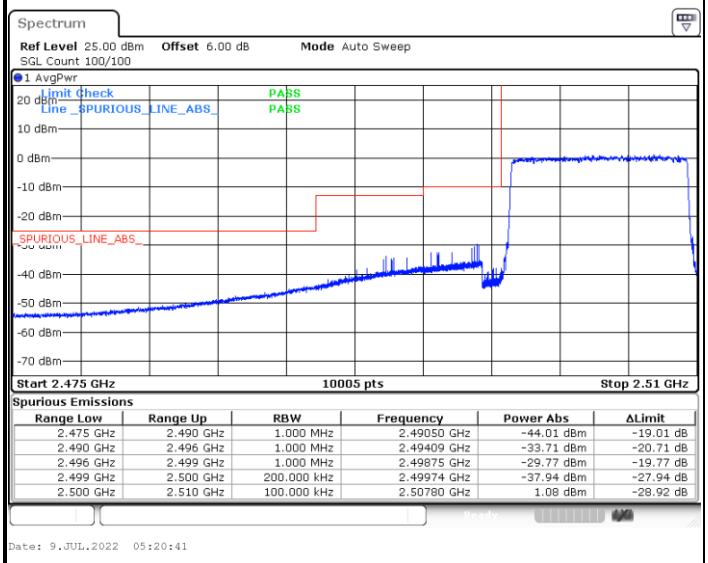


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56942 GHz	17.75 dBm	-12.25 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-24.07 dBm	-14.07 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57142 GHz	-34.41 dBm	-24.41 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57776 GHz	-41.16 dBm	-28.16 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58007 GHz	-47.92 dBm	-22.92 dB

Date: 9.JUL.2022 05:40:16

Lowest Band Edge / Full RB

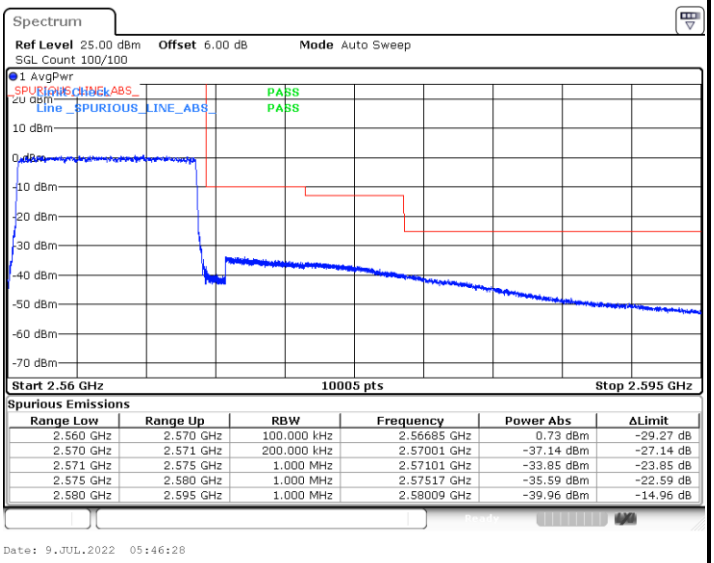


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49050 GHz	-44.01 dBm	-19.01 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49409 GHz	-33.71 dBm	-20.71 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49875 GHz	-29.77 dBm	-19.77 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49974 GHz	-37.94 dBm	-27.94 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50780 GHz	1.08 dBm	-28.92 dB

Date: 9.JUL.2022 05:20:41

Highest Band Edge / Full RB



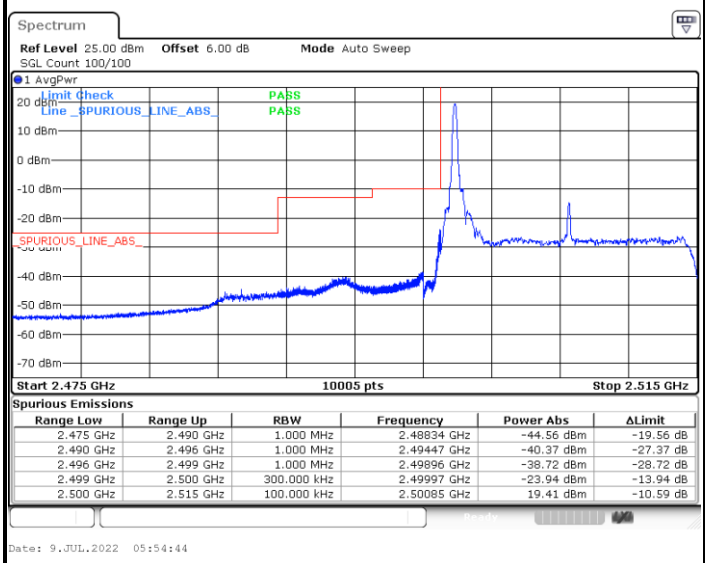
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56685 GHz	0.73 dBm	-29.27 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-37.14 dBm	-27.14 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57101 GHz	-33.85 dBm	-23.85 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57517 GHz	-35.59 dBm	-22.59 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58009 GHz	-39.96 dBm	-14.96 dB

Date: 9.JUL.2022 05:46:28

LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

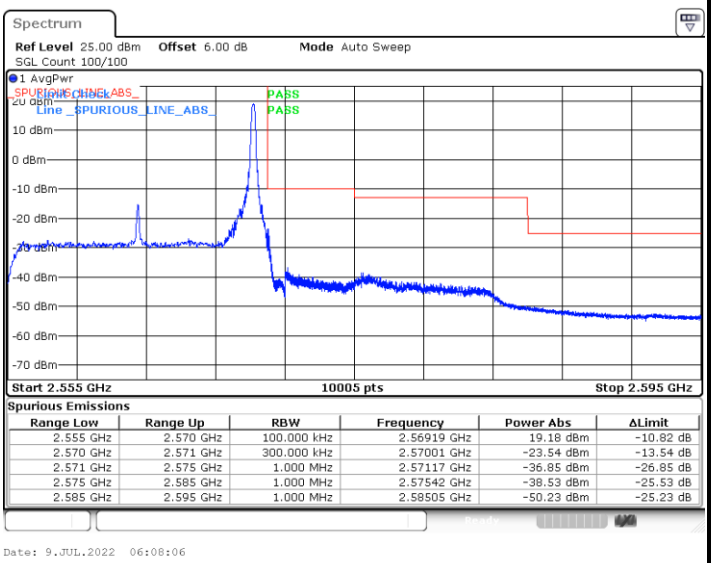


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48834 GHz	-44.56 dBm	-19.56 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49447 GHz	-40.37 dBm	-27.37 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49896 GHz	-38.72 dBm	-28.72 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49997 GHz	-23.94 dBm	-13.94 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50085 GHz	19.41 dBm	-10.59 dB

Date: 9.JUL.2022 05:54:44

Highest Band Edge / 1 RB

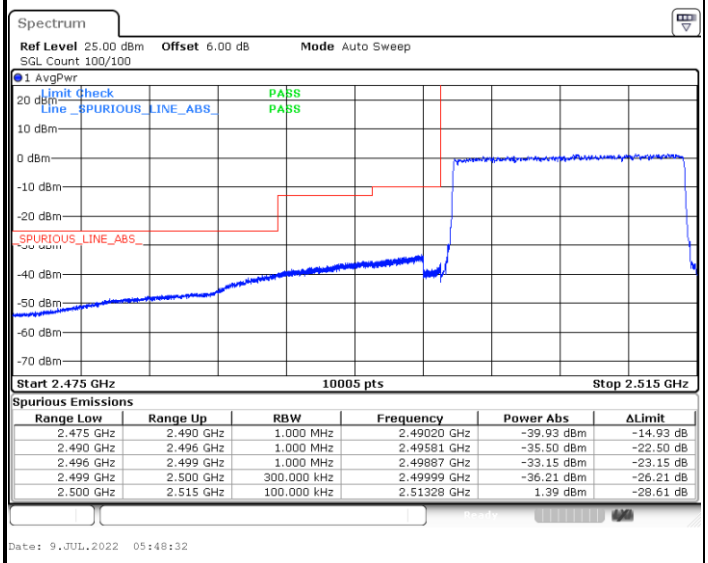


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56919 GHz	19.18 dBm	-10.82 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57001 GHz	-23.54 dBm	-13.54 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57117 GHz	-36.85 dBm	-26.85 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57542 GHz	-38.53 dBm	-25.53 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58505 GHz	-50.23 dBm	-25.23 dB

Date: 9.JUL.2022 06:08:06

Lowest Band Edge / Full RB

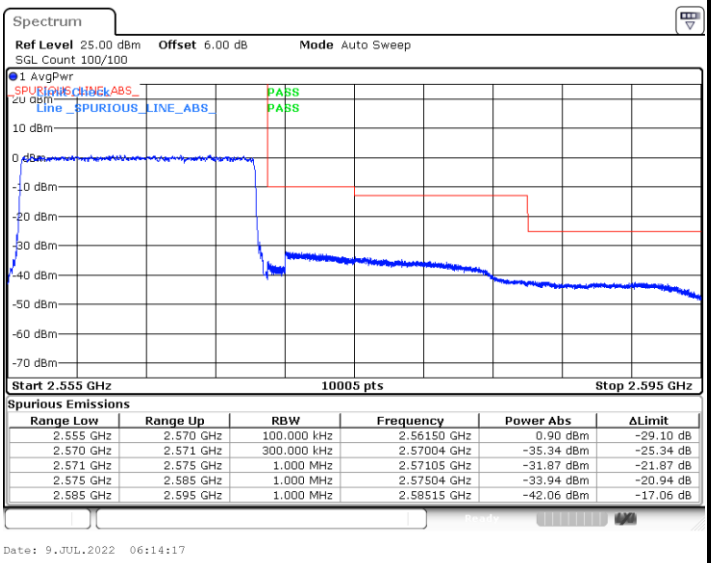


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49020 GHz	-39.93 dBm	-14.93 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49581 GHz	-35.50 dBm	-22.50 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49887 GHz	-33.15 dBm	-23.15 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49999 GHz	-36.21 dBm	-26.21 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.51328 GHz	1.39 dBm	-28.61 dB

Date: 9.JUL.2022 05:48:32

Highest Band Edge / Full RB



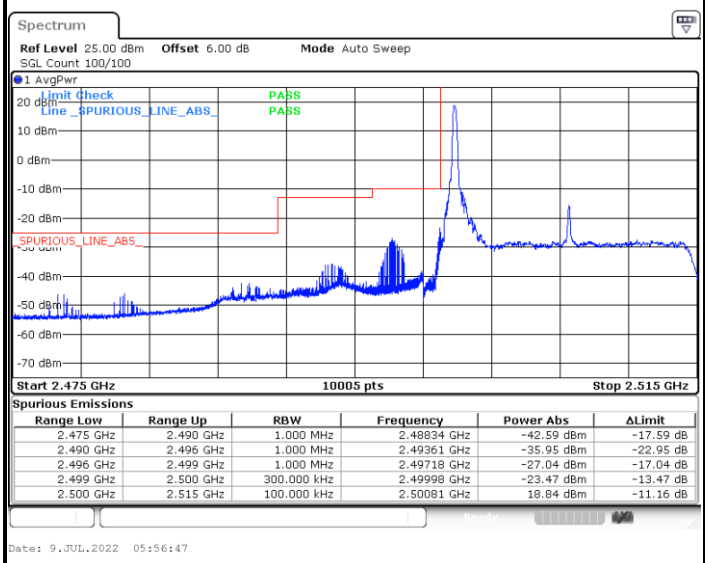
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56150 GHz	0.90 dBm	-29.10 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57004 GHz	-35.34 dBm	-25.34 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-31.87 dBm	-21.87 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57504 GHz	-33.94 dBm	-20.94 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58515 GHz	-42.06 dBm	-17.06 dB

Date: 9.JUL.2022 06:14:17

LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

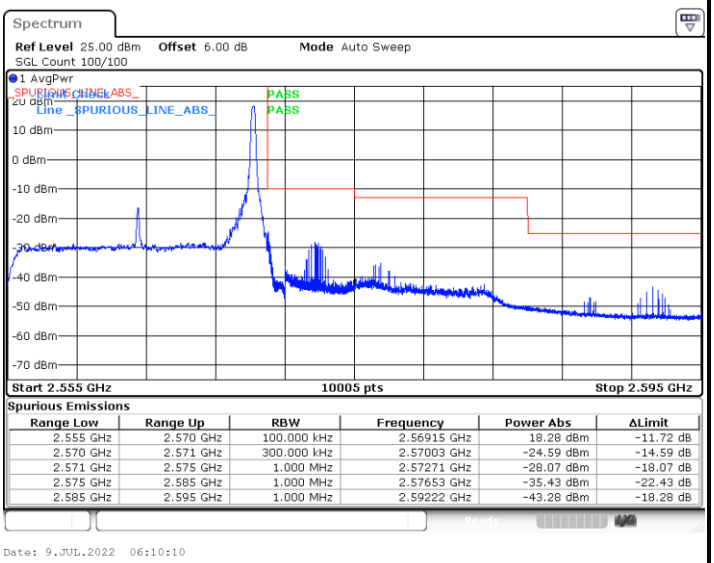


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48834 GHz	-42.59 dBm	-17.59 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49361 GHz	-35.95 dBm	-22.95 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49718 GHz	-27.04 dBm	-17.04 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49998 GHz	-23.47 dBm	-13.47 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50081 GHz	18.84 dBm	-11.16 dB

Date: 9.JUL.2022 05:56:47

Highest Band Edge / 1 RB

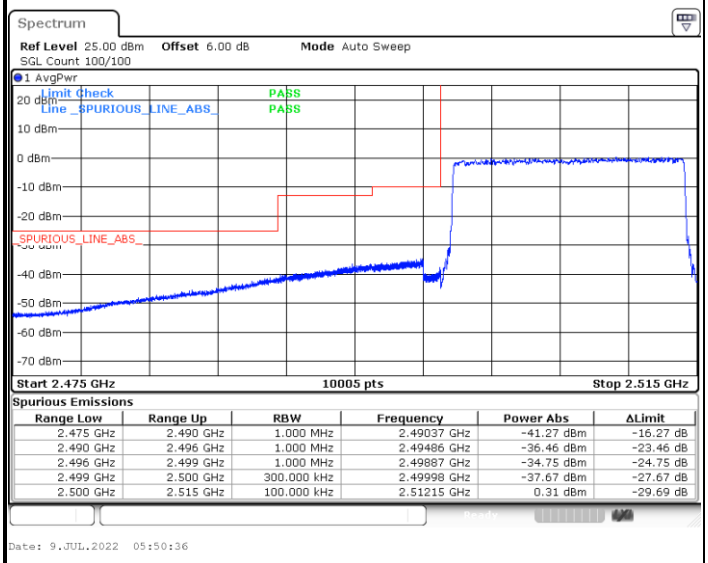


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56915 GHz	18.28 dBm	-11.72 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57003 GHz	-24.59 dBm	-14.59 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57271 GHz	-28.07 dBm	-18.07 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57653 GHz	-35.43 dBm	-22.43 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.59222 GHz	-43.28 dBm	-18.28 dB

Date: 9.JUL.2022 06:10:10

Lowest Band Edge / Full RB

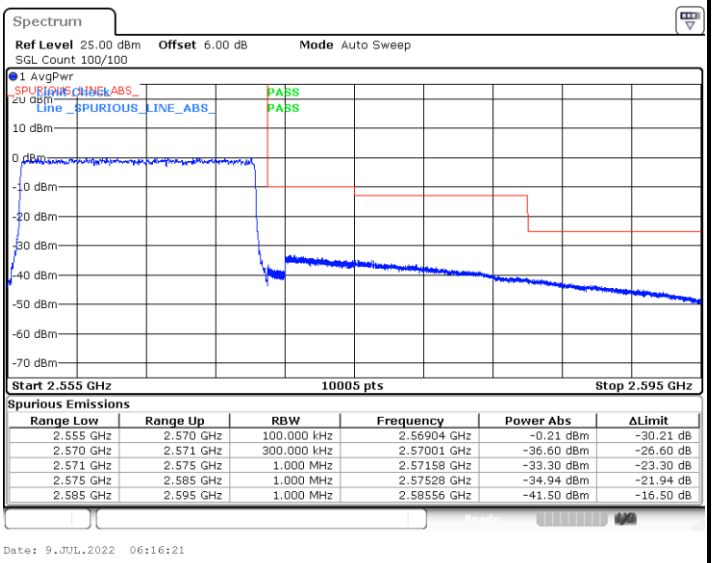


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49037 GHz	-41.27 dBm	-16.27 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49486 GHz	-36.46 dBm	-23.46 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49887 GHz	-34.75 dBm	-24.75 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49998 GHz	-37.67 dBm	-27.67 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.51215 GHz	0.31 dBm	-29.69 dB

Date: 9.JUL.2022 05:50:36

Highest Band Edge / Full RB



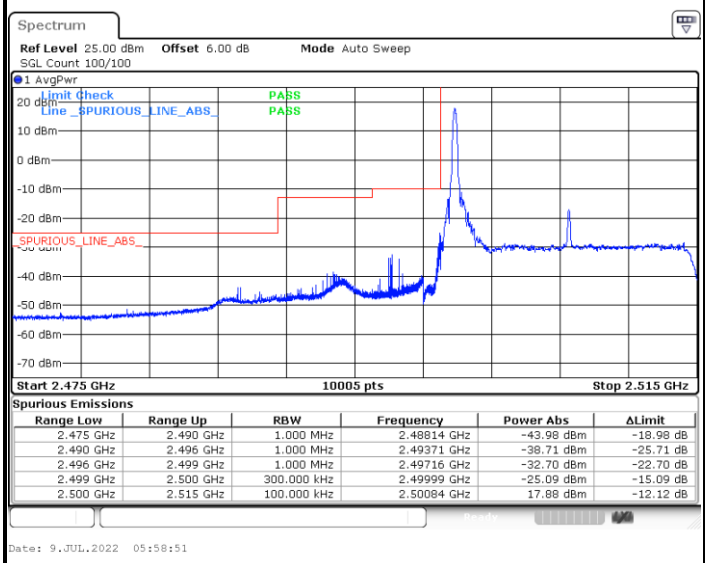
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56904 GHz	-0.21 dBm	-30.21 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57001 GHz	-36.60 dBm	-26.60 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57158 GHz	-33.30 dBm	-23.30 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57528 GHz	-34.94 dBm	-21.94 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58556 GHz	-41.50 dBm	-16.50 dB

Date: 9.JUL.2022 06:16:21

LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

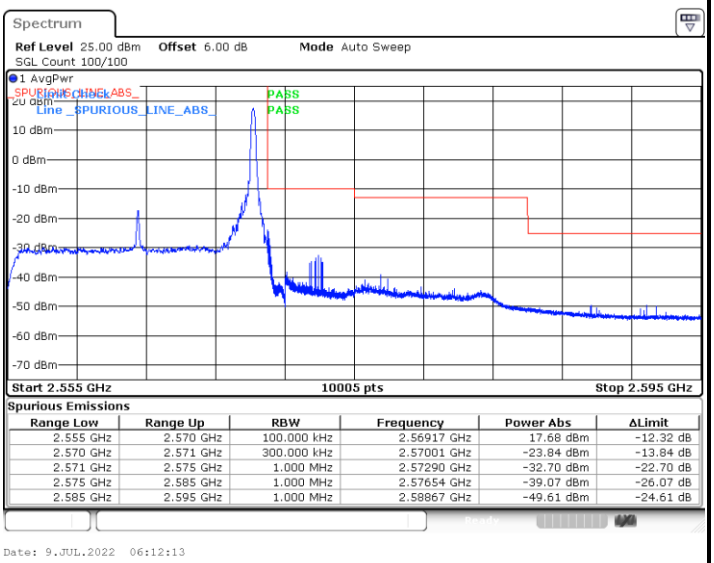


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48814 GHz	-43.98 dBm	-18.98 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49371 GHz	-38.71 dBm	-25.71 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49716 GHz	-32.70 dBm	-22.70 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49999 GHz	-25.09 dBm	-15.09 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50084 GHz	17.88 dBm	-12.12 dB

Date: 9.JUL.2022 05:58:51

Highest Band Edge / 1 RB

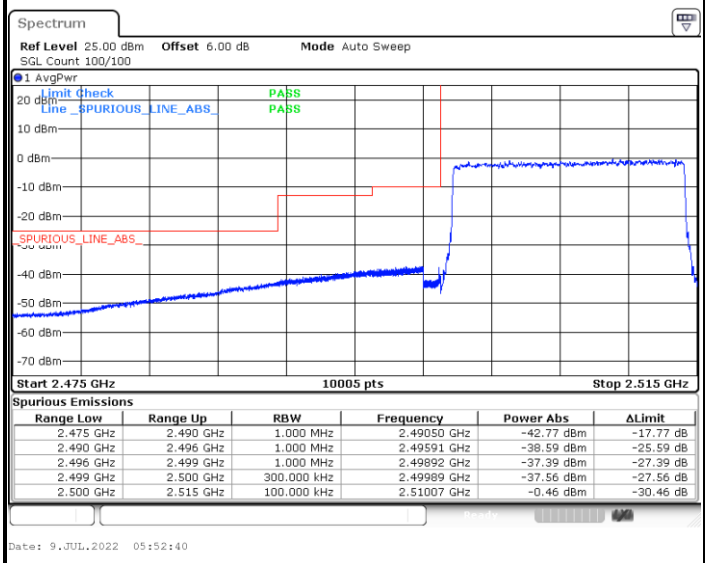


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56917 GHz	17.68 dBm	-12.32 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57001 GHz	-23.84 dBm	-13.84 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57290 GHz	-32.70 dBm	-22.70 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57654 GHz	-39.07 dBm	-26.07 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58867 GHz	-49.61 dBm	-24.61 dB

Date: 9.JUL.2022 06:12:13

Lowest Band Edge / Full RB

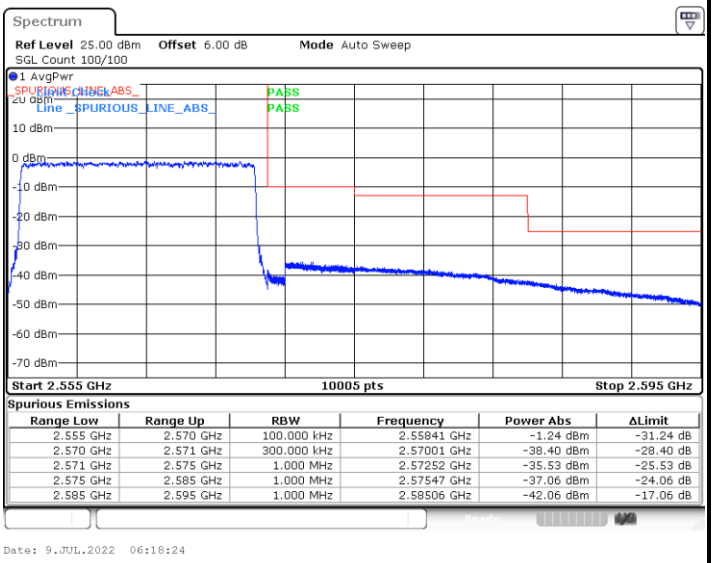


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49050 GHz	-42.77 dBm	-17.77 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49591 GHz	-38.59 dBm	-25.59 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49892 GHz	-37.39 dBm	-27.39 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49989 GHz	-37.56 dBm	-27.56 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.51007 GHz	-0.46 dBm	-30.46 dB

Date: 9.JUL.2022 05:52:40

Highest Band Edge / Full RB



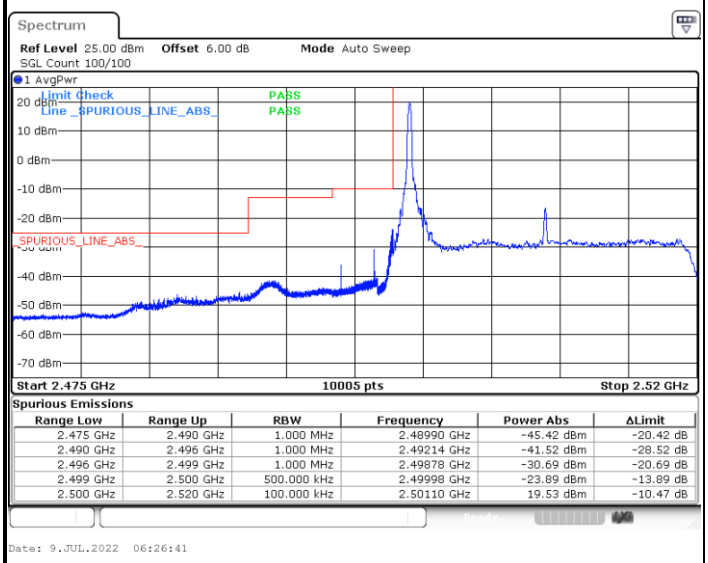
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.55841 GHz	-1.24 dBm	-31.24 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57001 GHz	-38.40 dBm	-28.40 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57252 GHz	-35.53 dBm	-25.53 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57547 GHz	-37.06 dBm	-24.06 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58506 GHz	-42.06 dBm	-17.06 dB

Date: 9.JUL.2022 06:18:24

LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

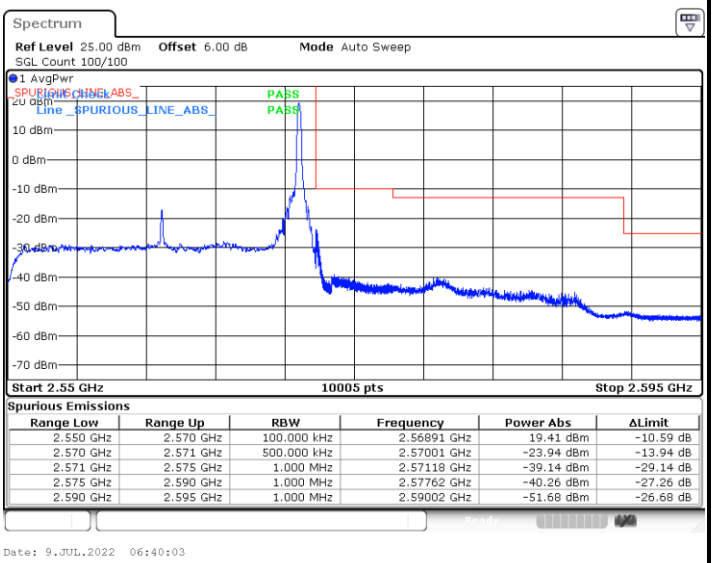


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48990 GHz	-45.42 dBm	-20.42 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49214 GHz	-41.52 dBm	-28.52 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49878 GHz	-30.69 dBm	-20.69 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49998 GHz	-23.89 dBm	-13.89 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50110 GHz	19.53 dBm	-10.47 dB

Date: 9.JUL.2022 06:26:41

Highest Band Edge / 1 RB

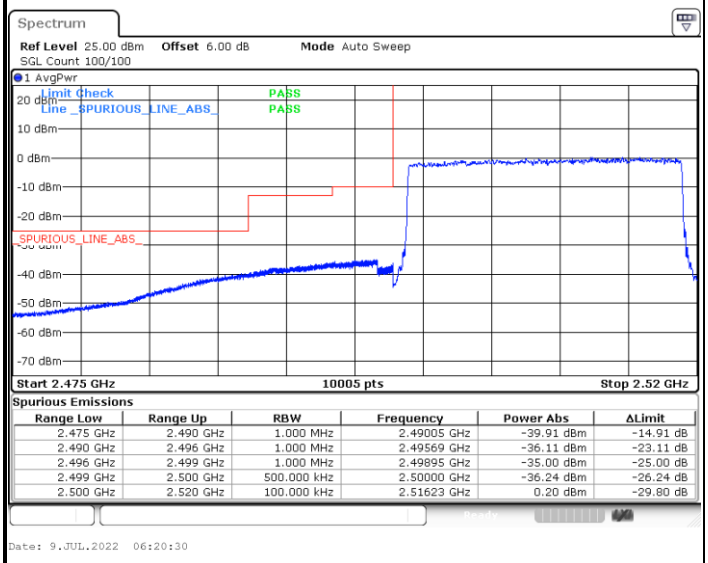


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56891 GHz	19.41 dBm	-10.59 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57001 GHz	-23.94 dBm	-13.94 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57118 GHz	-39.14 dBm	-29.14 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57762 GHz	-40.26 dBm	-27.26 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59002 GHz	-51.68 dBm	-26.68 dB

Date: 9.JUL.2022 06:40:03

Lowest Band Edge / Full RB

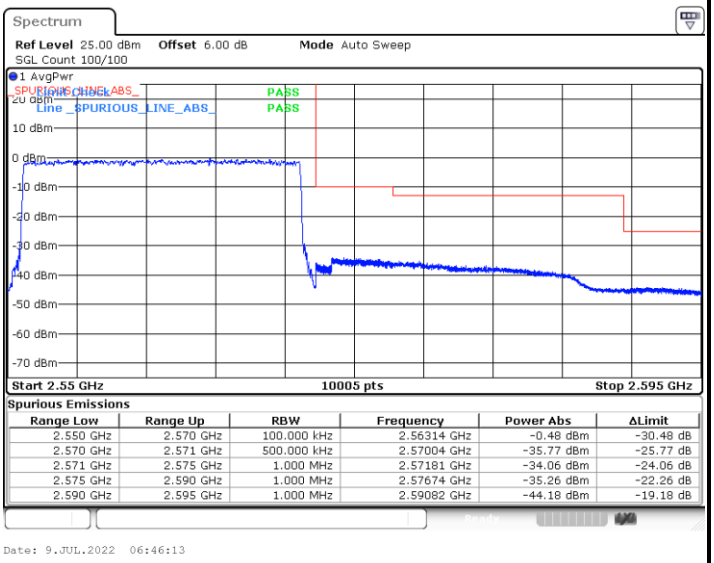


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49005 GHz	-39.91 dBm	-14.91 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49569 GHz	-36.11 dBm	-23.11 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49895 GHz	-35.00 dBm	-25.00 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.50000 GHz	-36.24 dBm	-26.24 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.51623 GHz	0.20 dBm	-29.80 dB

Date: 9.JUL.2022 06:20:30

Highest Band Edge / Full RB



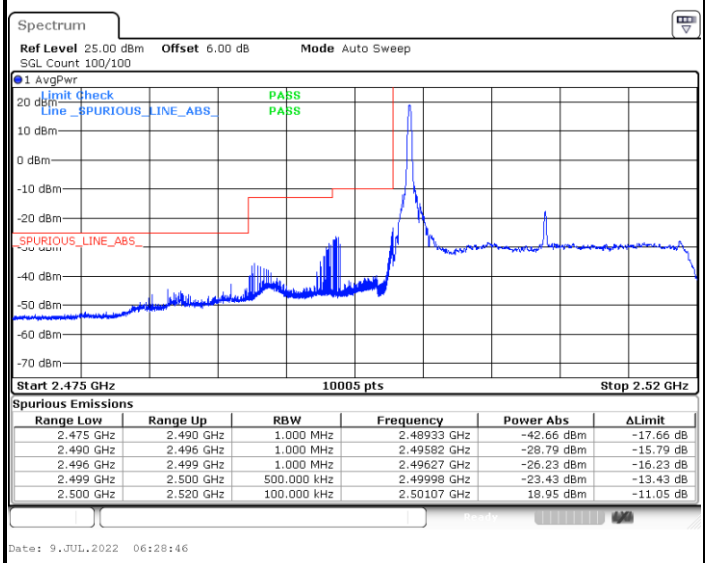
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56314 GHz	-0.48 dBm	-30.48 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57004 GHz	-35.77 dBm	-25.77 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57181 GHz	-34.06 dBm	-24.06 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57674 GHz	-35.26 dBm	-22.26 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59082 GHz	-44.18 dBm	-19.18 dB

Date: 9.JUL.2022 06:46:13

LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

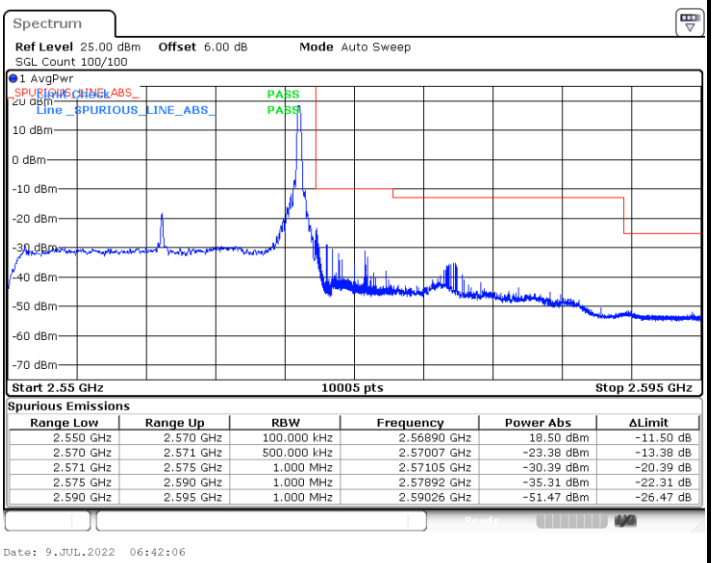


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48933 GHz	-42.66 dBm	-17.66 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49582 GHz	-28.79 dBm	-15.79 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49627 GHz	-26.23 dBm	-16.23 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49998 GHz	-23.43 dBm	-13.43 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50107 GHz	18.95 dBm	-11.05 dB

Date: 9.JUL.2022 06:28:46

Highest Band Edge / 1 RB

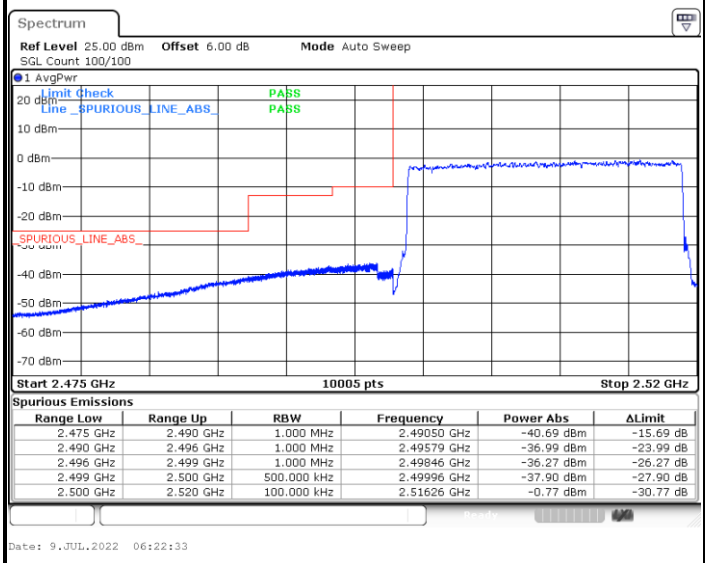


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56890 GHz	18.50 dBm	-11.50 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57007 GHz	-23.38 dBm	-13.38 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-30.39 dBm	-20.39 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57892 GHz	-35.31 dBm	-22.31 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59026 GHz	-51.47 dBm	-26.47 dB

Date: 9.JUL.2022 06:42:06

Lowest Band Edge / Full RB

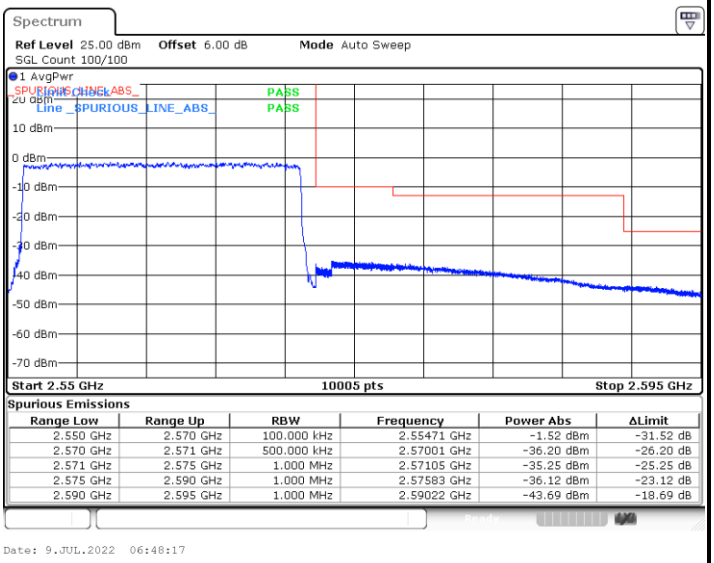


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49050 GHz	-40.69 dBm	-15.69 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49579 GHz	-36.99 dBm	-23.99 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49846 GHz	-36.27 dBm	-26.27 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49996 GHz	-37.90 dBm	-27.90 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.51626 GHz	-0.77 dBm	-30.77 dB

Date: 9.JUL.2022 06:22:33

Highest Band Edge / Full RB



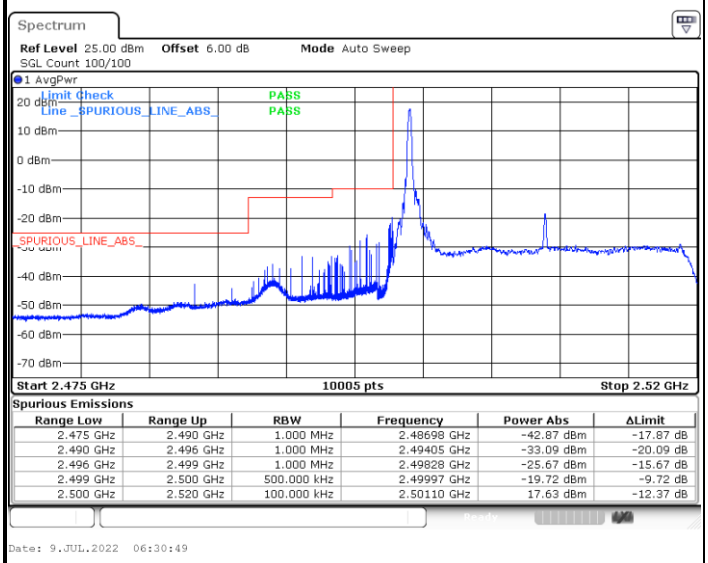
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.55471 GHz	-1.52 dBm	-31.52 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57001 GHz	-36.20 dBm	-26.20 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-35.25 dBm	-25.25 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57583 GHz	-36.12 dBm	-23.12 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59022 GHz	-43.69 dBm	-18.69 dB

Date: 9.JUL.2022 06:48:17

LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB

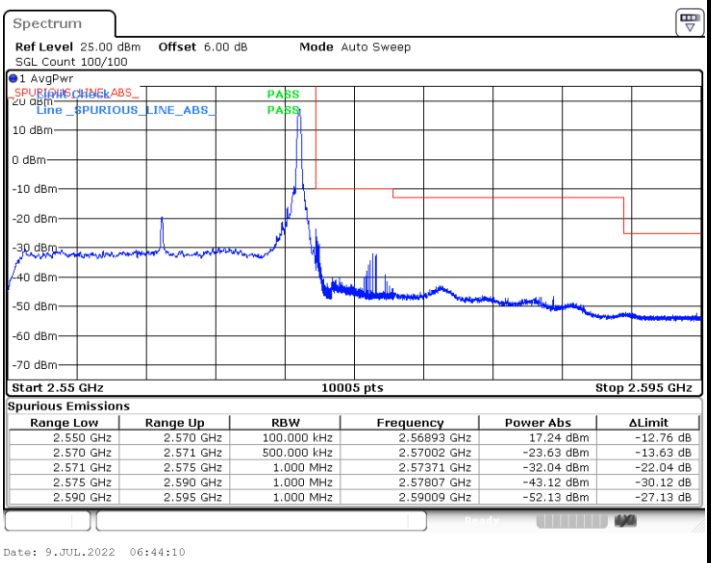


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48698 GHz	-42.87 dBm	-17.87 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49405 GHz	-33.09 dBm	-20.09 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49828 GHz	-25.67 dBm	-15.67 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49997 GHz	-19.72 dBm	-9.72 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50110 GHz	17.63 dBm	-12.37 dB

Date: 9.JUL.2022 06:30:49

Highest Band Edge / 1 RB

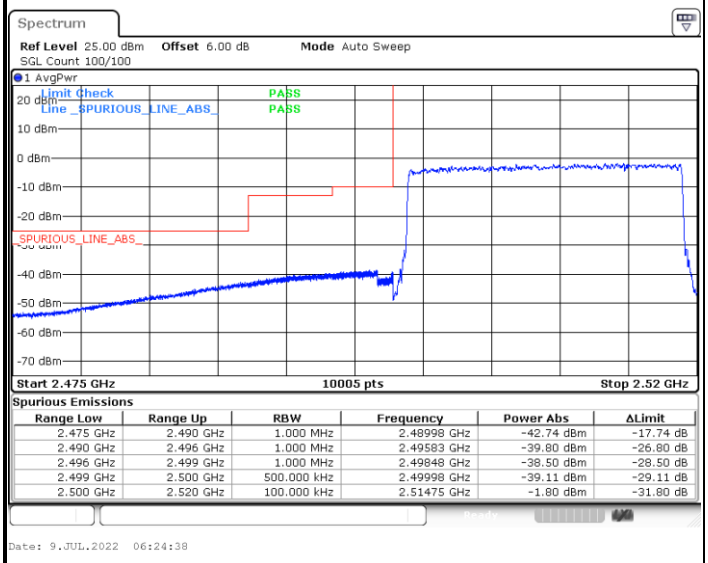


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56893 GHz	17.24 dBm	-12.76 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57002 GHz	-23.63 dBm	-13.63 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57371 GHz	-32.04 dBm	-22.04 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57807 GHz	-43.12 dBm	-30.12 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59009 GHz	-52.13 dBm	-27.13 dB

Date: 9.JUL.2022 06:44:10

Lowest Band Edge / Full RB

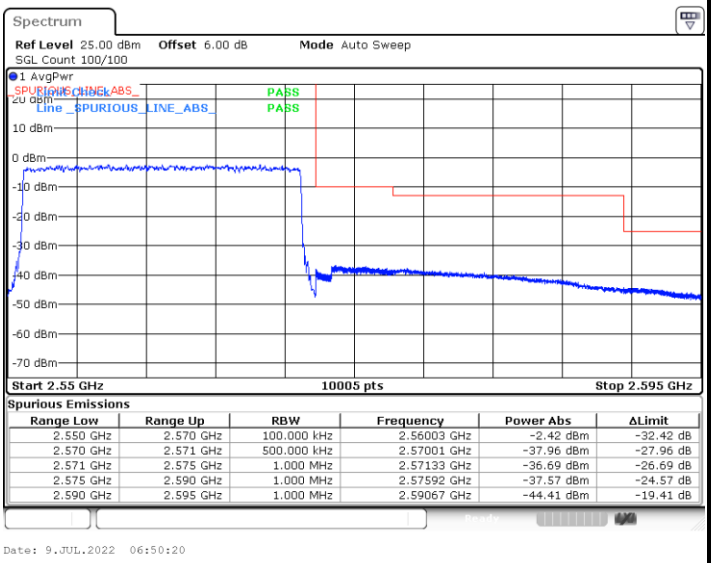


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48998 GHz	-42.74 dBm	-17.74 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49583 GHz	-39.80 dBm	-26.80 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49848 GHz	-38.50 dBm	-28.50 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49998 GHz	-39.11 dBm	-29.11 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.51475 GHz	-1.80 dBm	-31.80 dB

Date: 9.JUL.2022 06:24:38

Highest Band Edge / Full RB



Spurious Emissions

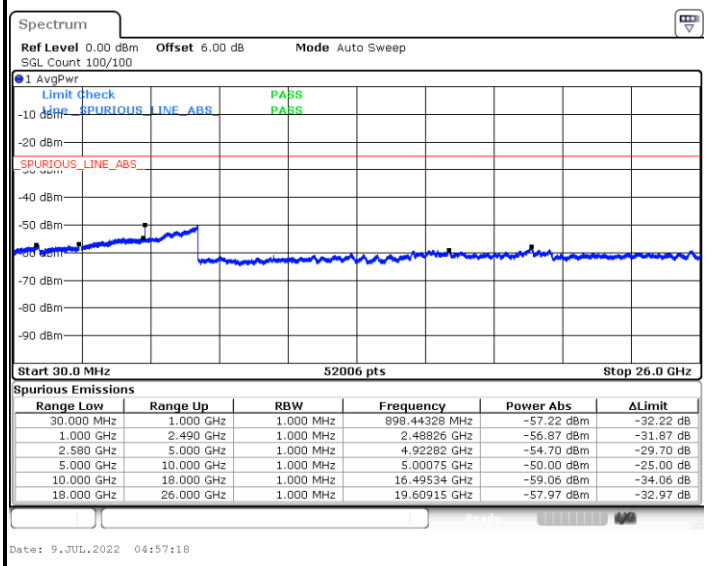
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56003 GHz	-2.42 dBm	-32.42 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57001 GHz	-37.96 dBm	-27.96 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57133 GHz	-36.69 dBm	-26.69 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57592 GHz	-37.57 dBm	-24.57 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59067 GHz	-44.41 dBm	-19.41 dB

Date: 9.JUL.2022 06:50:20

Conducted Spurious Emission

LTE Band 7 / 5MHz

Lowest Channel / QPSK

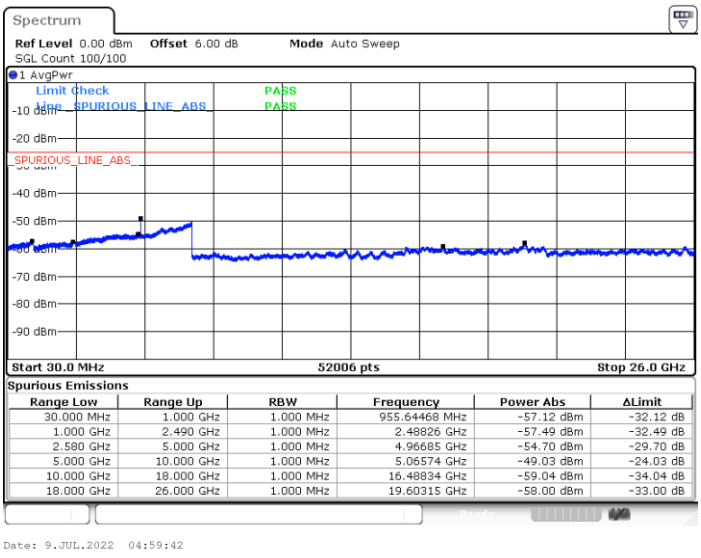


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	898.44328 MHz	-57.22 dBm	-32.22 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48826 GHz	-56.87 dBm	-31.87 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.92282 GHz	-54.70 dBm	-29.70 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.00075 GHz	-50.00 dBm	-25.00 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.49534 GHz	-59.06 dBm	-34.06 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.60915 GHz	-57.97 dBm	-32.97 dB

Date: 9.JUL.2022 04:57:18

Middle Channel / QPSK

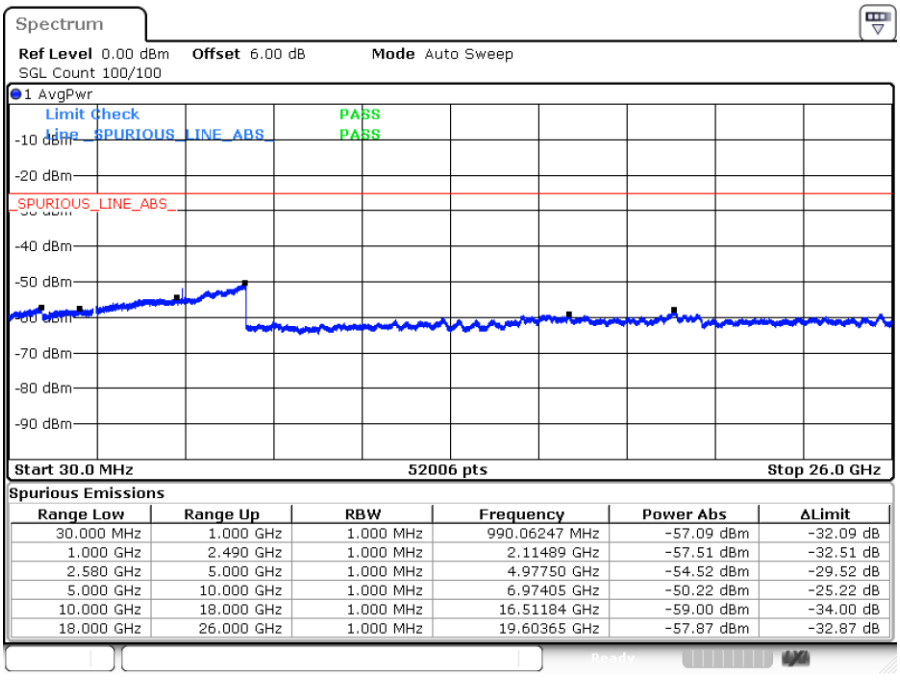


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	955.64468 MHz	-57.12 dBm	-32.12 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48826 GHz	-57.49 dBm	-32.49 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.96685 GHz	-54.70 dBm	-29.70 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.06574 GHz	-49.03 dBm	-24.03 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.48834 GHz	-59.04 dBm	-34.04 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.60315 GHz	-58.00 dBm	-33.00 dB

Date: 9.JUL.2022 04:59:42

Highest Channel / QPSK



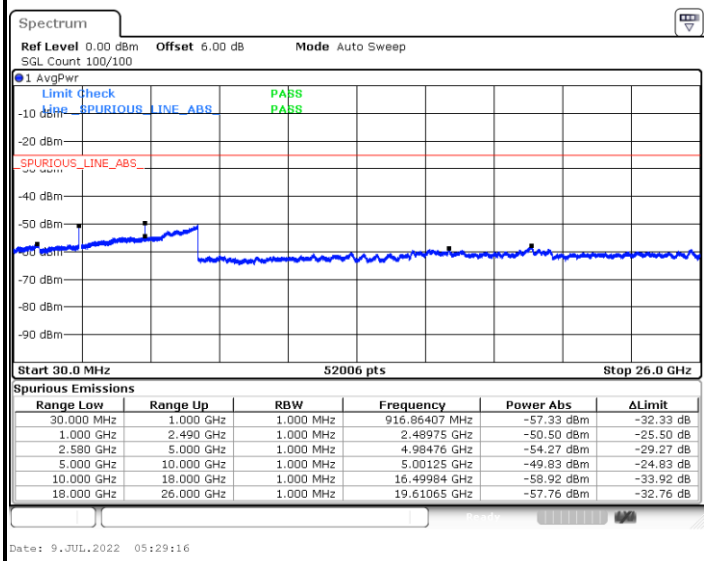
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	990.06247 MHz	-57.09 dBm	-32.09 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.11489 GHz	-57.51 dBm	-32.51 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.97750 GHz	-54.52 dBm	-29.52 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.97405 GHz	-50.22 dBm	-25.22 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.51184 GHz	-59.00 dBm	-34.00 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.60365 GHz	-57.87 dBm	-32.87 dB

Date: 9.JUL.2022 05:02:05

LTE Band 7 / 10MHz

Lowest Channel / QPSK

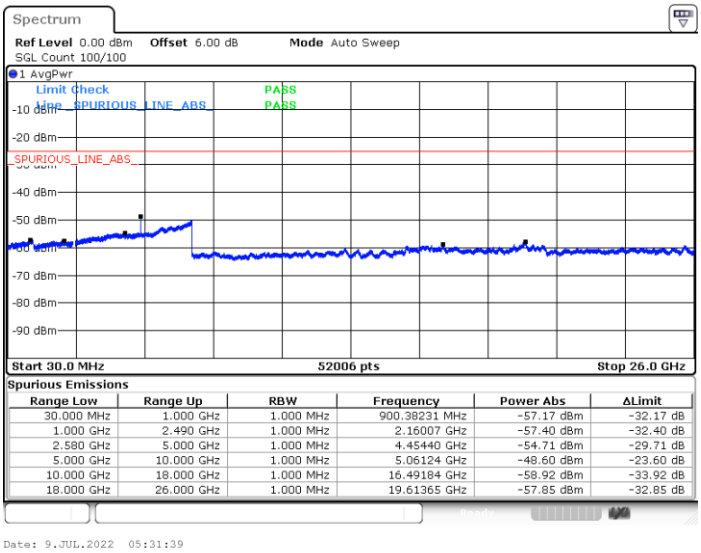


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	916.86407 MHz	-57.33 dBm	-32.33 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48975 GHz	-50.50 dBm	-25.50 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.98476 GHz	-54.27 dBm	-29.27 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.00125 GHz	-49.83 dBm	-24.83 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.49984 GHz	-58.92 dBm	-33.92 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.61065 GHz	-57.76 dBm	-32.76 dB

Date: 9.JUL.2022 05:29:16

Middle Channel / QPSK

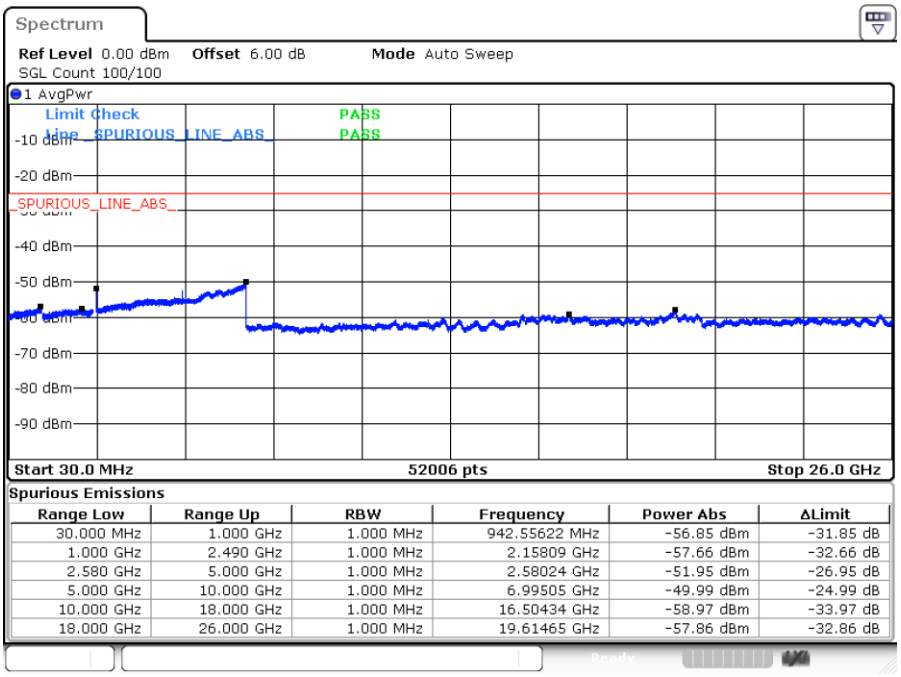


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	900.38231 MHz	-57.17 dBm	-32.17 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.16007 GHz	-57.40 dBm	-32.40 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.45440 GHz	-54.71 dBm	-29.71 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.06124 GHz	-48.60 dBm	-23.60 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.49184 GHz	-58.92 dBm	-33.92 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.61365 GHz	-57.85 dBm	-32.85 dB

Date: 9.JUL.2022 05:31:39

Highest Channel / QPSK



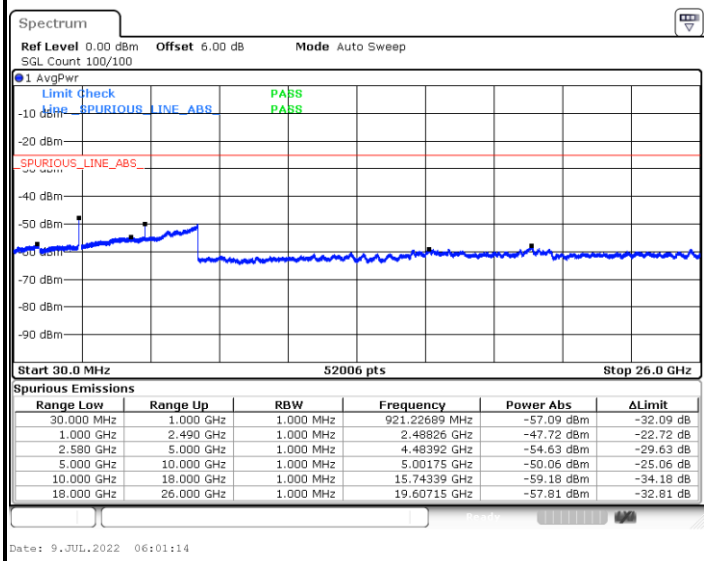
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	942.55622 MHz	-56.85 dBm	-31.85 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.15809 GHz	-57.66 dBm	-32.66 dB
2.580 GHz	5.000 GHz	1.000 MHz	2.58024 GHz	-51.95 dBm	-26.95 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.99505 GHz	-49.99 dBm	-24.99 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.50434 GHz	-58.97 dBm	-33.97 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.61465 GHz	-57.86 dBm	-32.86 dB

Date: 9.JUL.2022 05:34:03

LTE Band 7 / 15MHz

Lowest Channel / QPSK

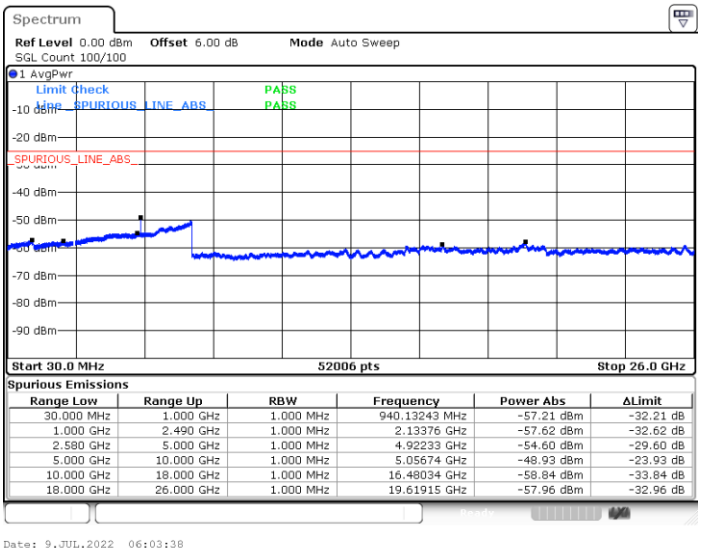


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	921.22689 MHz	-57.09 dBm	-32.09 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48826 GHz	-47.72 dBm	-22.72 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.48392 GHz	-54.63 dBm	-29.63 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.00175 GHz	-50.06 dBm	-25.06 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.74339 GHz	-59.18 dBm	-34.18 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.60715 GHz	-57.81 dBm	-32.81 dB

Date: 9.JUL.2022 06:01:14

Middle Channel / QPSK

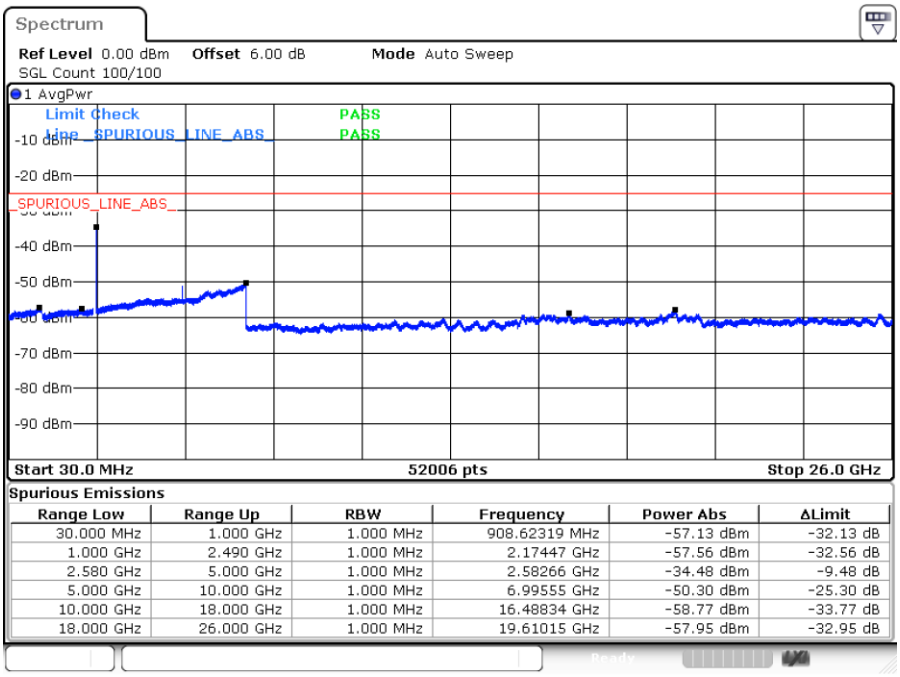


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	940.13243 MHz	-57.21 dBm	-32.21 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.13376 GHz	-57.62 dBm	-32.62 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.92233 GHz	-54.60 dBm	-29.60 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.05674 GHz	-48.93 dBm	-23.93 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.48034 GHz	-58.84 dBm	-33.84 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.61915 GHz	-57.96 dBm	-32.96 dB

Date: 9.JUL.2022 06:03:38

Highest Channel / QPSK



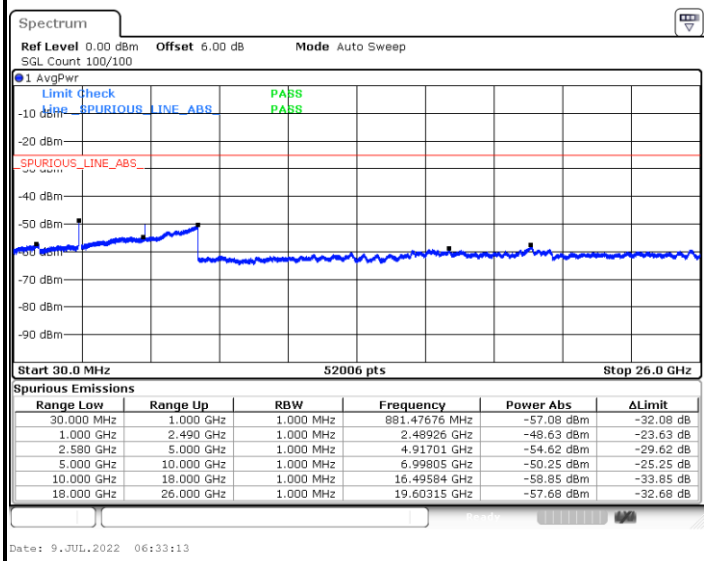
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	908.62319 MHz	-57.13 dBm	-32.13 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.17447 GHz	-57.56 dBm	-32.56 dB
2.580 GHz	5.000 GHz	1.000 MHz	2.58266 GHz	-34.48 dBm	-9.48 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.99555 GHz	-50.30 dBm	-25.30 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.48834 GHz	-58.77 dBm	-33.77 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.61015 GHz	-57.95 dBm	-32.95 dB

Date: 9.JUL.2022 06:06:02

LTE Band 7 / 20MHz

Lowest Channel / QPSK

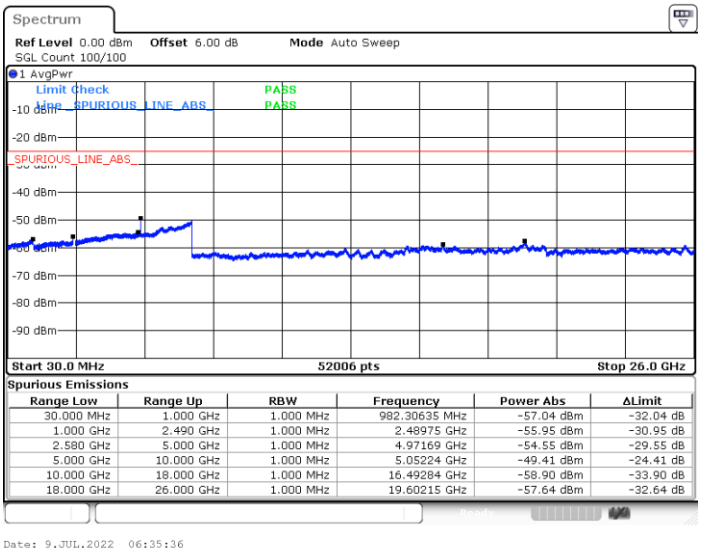


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	881.47676 MHz	-57.08 dBm	-32.08 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48926 GHz	-48.63 dBm	-23.63 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.91701 GHz	-54.62 dBm	-29.62 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.99805 GHz	-50.25 dBm	-25.25 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.49584 GHz	-58.85 dBm	-33.85 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.60315 GHz	-57.68 dBm	-32.68 dB

Date: 9.JUL.2022 06:33:13

Middle Channel / QPSK

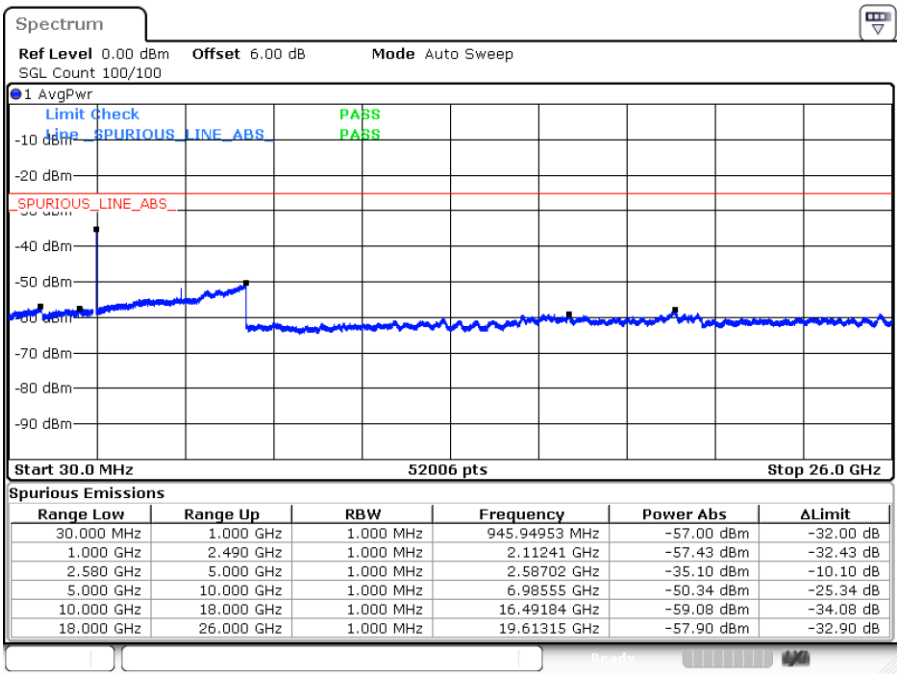


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	982.30635 MHz	-57.04 dBm	-32.04 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48975 GHz	-55.95 dBm	-30.95 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.97169 GHz	-54.55 dBm	-29.55 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.05224 GHz	-49.41 dBm	-24.41 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.49284 GHz	-58.90 dBm	-33.90 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.60215 GHz	-57.64 dBm	-32.64 dB

Date: 9.JUL.2022 06:35:36

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	945.94953 MHz	-57.00 dBm	-32.00 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.11241 GHz	-57.43 dBm	-32.43 dB
2.580 GHz	5.000 GHz	1.000 MHz	2.58702 GHz	-35.10 dBm	-10.10 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.98555 GHz	-50.34 dBm	-25.34 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.49184 GHz	-59.08 dBm	-34.08 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.61315 GHz	-57.90 dBm	-32.90 dB

Date: 9.JUL.2022 06:37:59

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

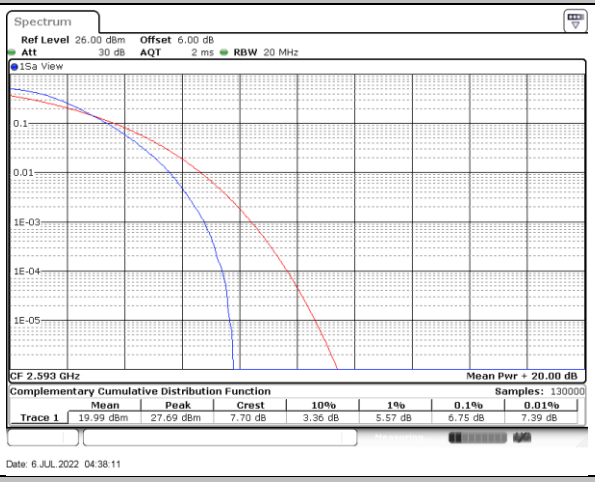
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 41

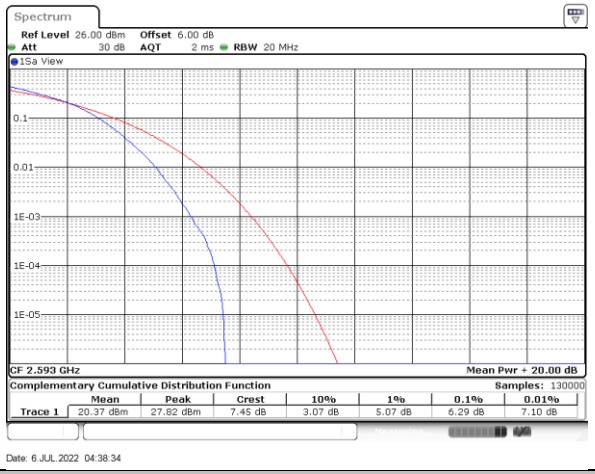
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	6.75	6.29	8.58	PASS

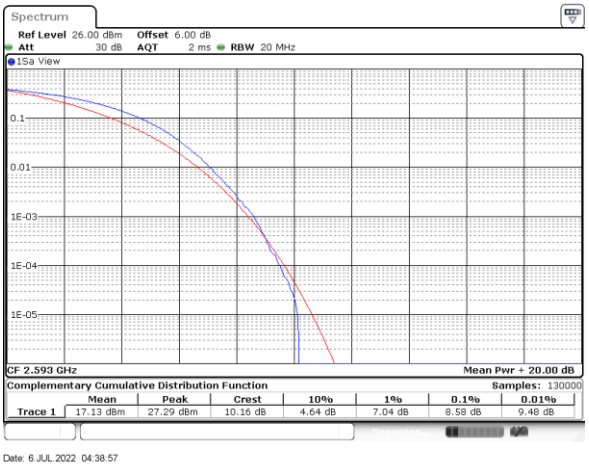
LTE Band 41 / 20MHz
Middle Channel / Full RB / QPSK



Middle Channel / Full RB / 16QAM



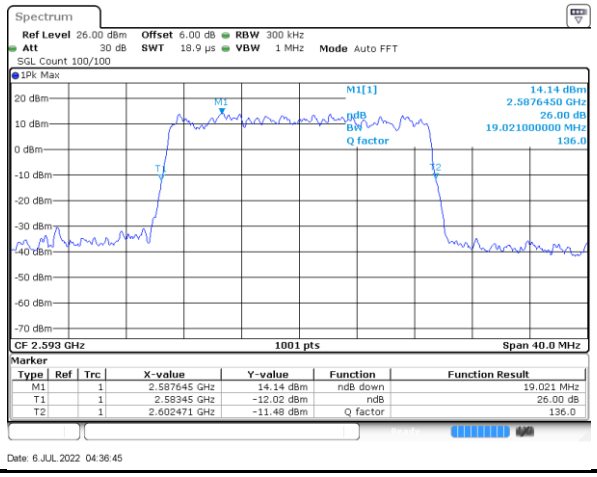
Middle Channel / Full RB / 64QAM

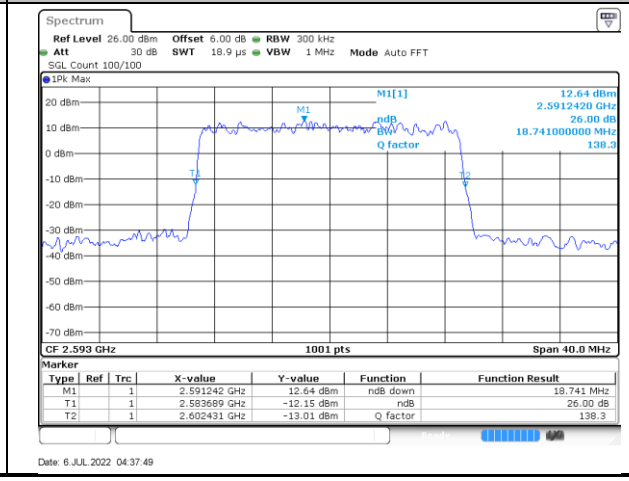


26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.02	18.74

LTE Band 41	
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM



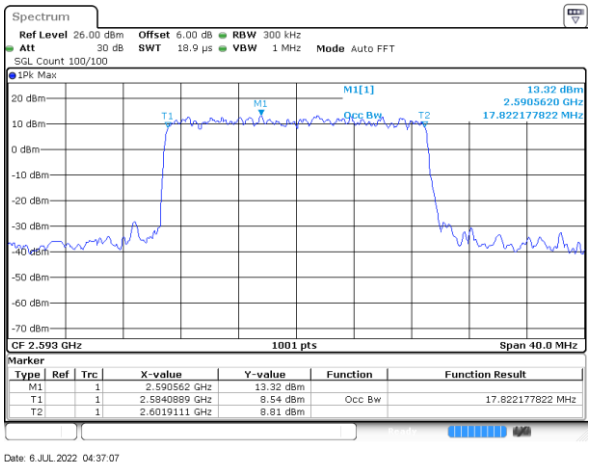


Occupied Bandwidth

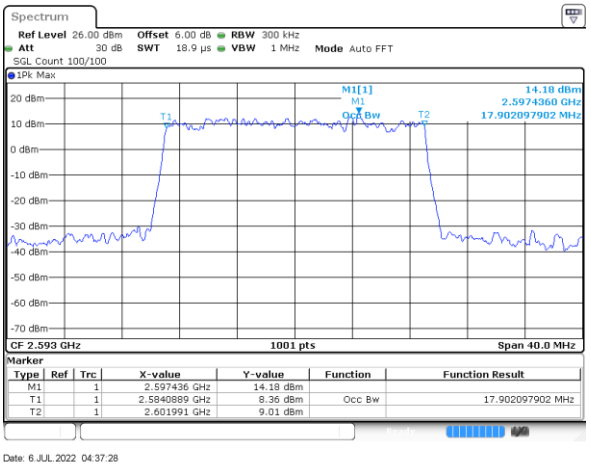
Mode	LTE Band 41 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.82	17.90

LTE Band 41

Middle Channel / 20MHz / QPSK



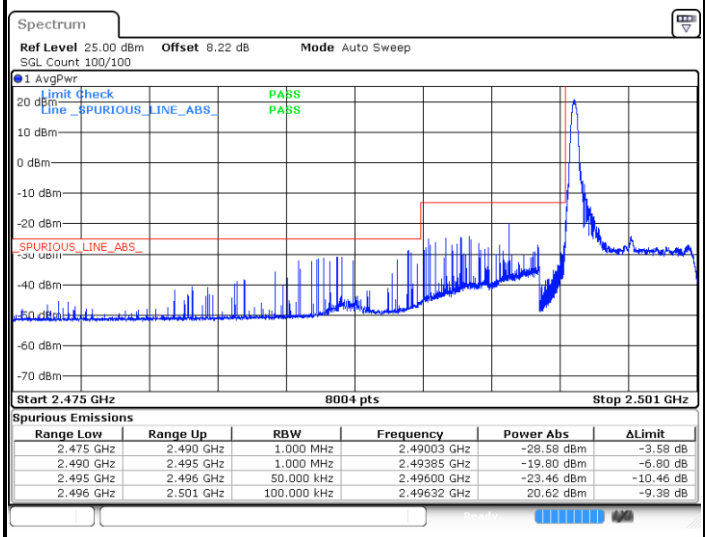
Middle Channel / 20MHz / 16QAM



Conducted Band Edge

LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB

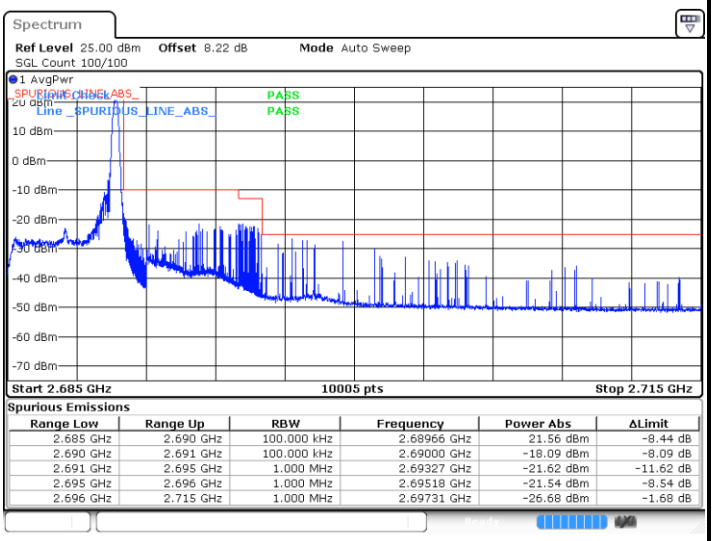


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49003 GHz	-28.58 dBm	-3.58 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49385 GHz	-19.80 dBm	-6.80 dB
2.495 GHz	2.496 GHz	50.000 kHz	2.49600 GHz	-23.46 dBm	-10.46 dB
2.496 GHz	2.501 GHz	100.000 kHz	2.49632 GHz	20.62 dBm	-9.38 dB

Date: 6.JUL.2022 02:45:29

Highest Band Edge / 1 RB

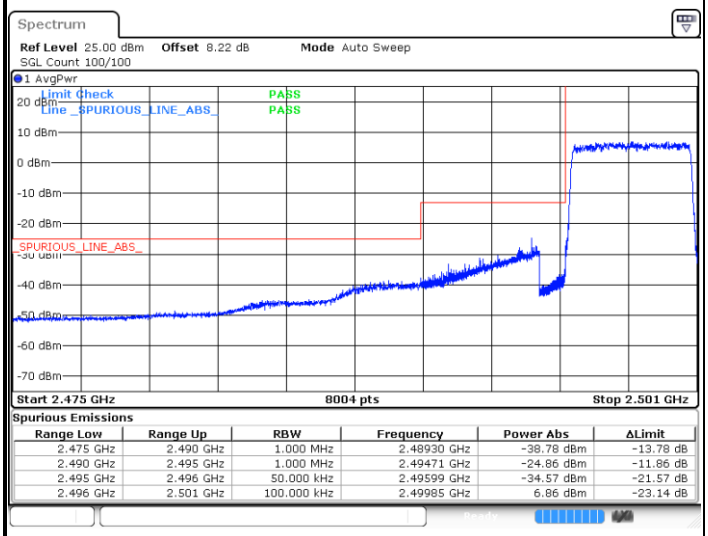


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.685 GHz	2.690 GHz	100.000 kHz	2.68966 GHz	21.56 dBm	-8.44 dB
2.690 GHz	2.691 GHz	100.000 kHz	2.69000 GHz	-18.09 dBm	-8.09 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69327 GHz	-21.62 dBm	-11.62 dB
2.695 GHz	2.696 GHz	1.000 MHz	2.69518 GHz	-21.54 dBm	-8.54 dB
2.696 GHz	2.715 GHz	1.000 MHz	2.69731 GHz	-26.68 dBm	-1.68 dB

Date: 6.JUL.2022 02:58:13

Lowest Band Edge / Full RB

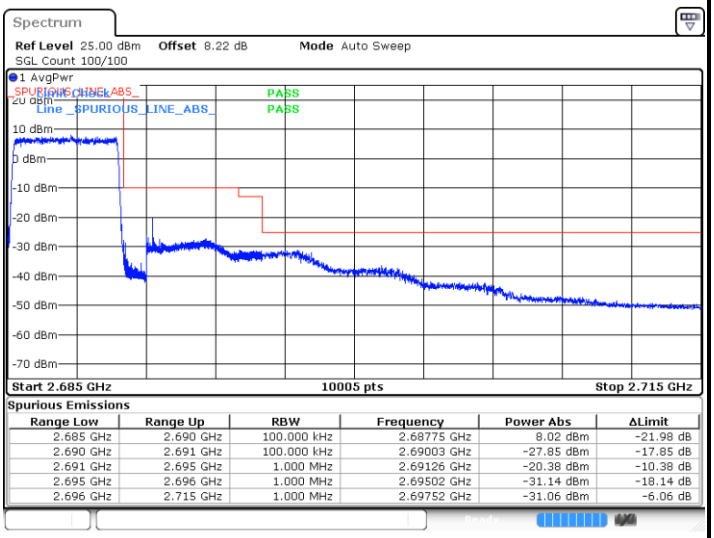


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48930 GHz	-38.78 dBm	-13.78 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49471 GHz	-24.86 dBm	-11.86 dB
2.495 GHz	2.496 GHz	50.000 kHz	2.49599 GHz	-34.57 dBm	-21.57 dB
2.496 GHz	2.501 GHz	100.000 kHz	2.49985 GHz	6.86 dBm	-23.14 dB

Date: 6.JUL.2022 02:53:52

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.685 GHz	2.690 GHz	100.000 kHz	2.68775 GHz	8.02 dBm	-21.98 dB
2.690 GHz	2.691 GHz	100.000 kHz	2.69003 GHz	-27.85 dBm	-17.85 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69126 GHz	-20.38 dBm	-10.38 dB
2.695 GHz	2.696 GHz	1.000 MHz	2.69502 GHz	-31.14 dBm	-18.14 dB
2.696 GHz	2.715 GHz	1.000 MHz	2.69752 GHz	-31.06 dBm	-6.06 dB

Date: 6.JUL.2022 03:06:34