FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	XIAOMI
MODEL NAME	:	2211133G
FCC ID	:	2AFZZ133G
STANDARD	:	47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Sep. 19, 2022 ~ Oct. 09, 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.

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
FG291702F	Rev. 01	Initial issue of report	Nov. 11, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 39.78 dB at 10672.500 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

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	XIAOMI
Model Name	2211133G
FCC ID	2AFZZ133G
IMEI Code	Conducted: 866917060018858/866917060018866 Radiation: 866917060033675/866917060033683
HW Version	P2
SW Version	MIUI 14
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	LTE Band 42: 3450 MHz ~ 3550 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<Ant. 1> LTE Band 42 : 22.60 dBm LTE Band 42C : 22.52 dBm <Ant. 3> LTE Band 42 : 22.63 dBm LTE Band 42C : 22.58 dBm <Ant. 10> LTE Band 42 : 25.07 dBm LTE Band 42C : 25.02 dBm <Ant. 12> LTE Band 42 : 24.97 dBm LTE Band 42C : 24.94 dBm
Antenna Gain	<Ant.1>LTE Band 42 : -3.0 dBi <Ant.3>LTE Band 42 : -1.6 dBi <Ant.10>LTE Band 42 : -5.0 dBi <Ant.12>LTE Band 42 : -3.6 dBi

Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note: The maximum EIRP is calculated from maximum Output power and antenna gain, only the maximum EIRP is shown in the report: LTE Band 42/42C for Ant 12.

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 42		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
20	3460 ~ 3540	0.1371	17M8G7D	0.1306	17M9W7D

LTE Band 42 CA	QPSK		16QAM/64QAM/256QAM	
BW (MHz)	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
20MHz+20MHz	0.1361	37M6G7D	0.1268	37M6W7D

Note: All modulations have been tested, only maximum bandwidth and 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 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-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	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH01-SZ	CN1256	421272

Note: Test data subcontracted: RSE test case in section 4.4 of this report

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

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, Part 27 Subpart Q
- ANSI C63.26-2015
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
-

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

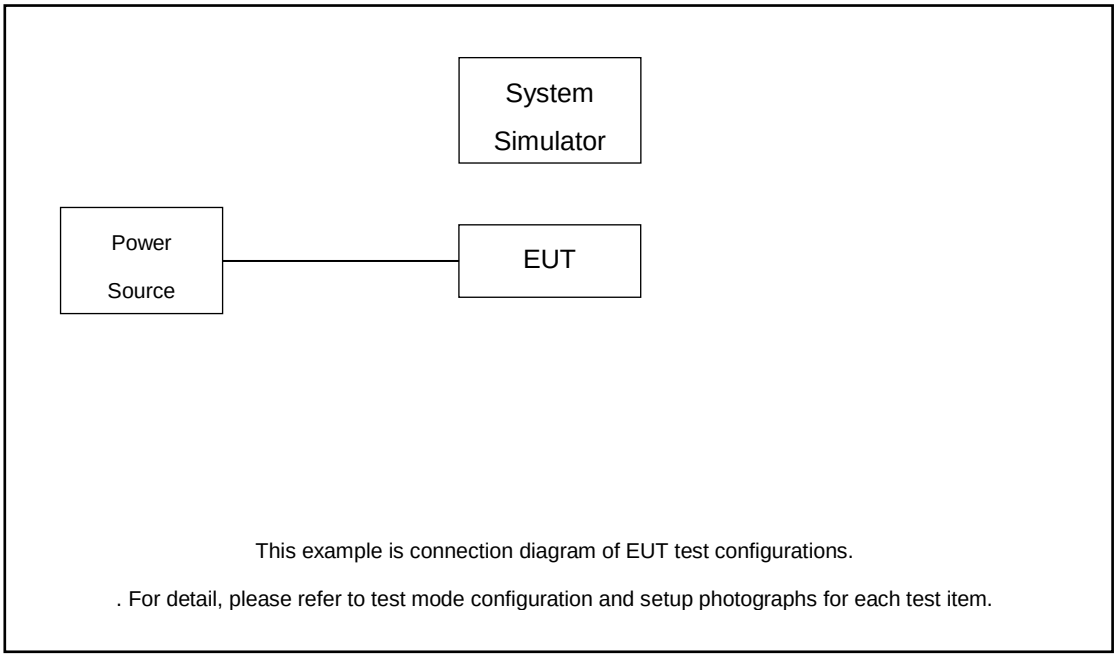
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Y-Plane)

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. QPSK, 16QAM, 64QAM 256QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	LTE Band 42	20M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
E.I.R.P	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB	L, M, H
26dB and 99% Bandwidth	LTE Band 42	20M	QPSK, 16QAM	Full RB	M
Conducted Band Edge	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Full RB	L, H
Conducted Spurious Emission	LTE Band 42	5M, 10M, 15M, 20M	QPSK	1RB	L, M, H
Frequency Stability	LTE Band 42	10M	QPSK	1RB	M
Radiated Spurious Emission	LTE Band 42	Worst case			M

Note:
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.

Test Items	Band	Bandwidth (MHz)										Modulation				RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	**42C_CA**	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v			v	v	v
26dB and 99% Bandwidth	**42C_CA**	v							-	-	-	v	v					v		v	
Conducted Band Edge	**42C_CA**	v		v		v		v	-	-	-	v	v	v	v	v		v	v		v
Conducted Spurious Emission	**42C_CA**	v		v		v		v	-	-	-	v	v	v		v			v	v	v
E.I.R.P.	**42C_CA**	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v			v	v	v
Radiated Spurious Emission	**42C_CA**	**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



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.	Base Station	Anritsu	MT8821C	Fcc DoC	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 6.50dB.

Example :

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

= 6.50(dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 42 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	42190	42590	42990
	Frequency	3460	3500	3540
15	Channel	42165	42590	43015
	Frequency	3457.5	3500	3542.5
10	Channel	42140	42590	43040
	Frequency	3455	3500	3545
5	Channel	42115	42590	43065
	Frequency	3452.5	3500	3547.5

LTE Band 42C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	42190	42590	42792
		Frequency	3460	3500	3520.2
	SCC	Channel	42388	42788	42990
		Frequency	3479.8	3519.8	3540
20 + 15	PCC	Channel	42190	42590	42844
		Frequency	3460	3500	3525.4
	SCC	Channel	42361	42761	43015
		Frequency	3477.1	3517.1	3542.5
15 + 20	PCC	Channel	42165	42590	42819
		Frequency	3457.5	3500	3522.9
	SCC	Channel	42336	42761	42990
		Frequency	3474.6	3517.1	3540
20 + 10	PCC	Channel	42190	42590	42896
		Frequency	3460	3500	3530.6
	SCC	Channel	42334	42734	43040
		Frequency	3474.4	3514.4	3545
10 + 20	PCC	Channel	42140	42590	42846
		Frequency	3455	3500	3525.6
	SCC	Channel	42284	42734	42990
		Frequency	3469.4	3514.4	3540

20 + 5	PCC	Channel	42190	42590	42948
		Frequency	3460	3500	3535.8
	SCC	Channel	42307	42707	43065
		Frequency	3471.7	3511.7	3547.5
5 + 20	PCC	Channel	42115	42590	42873
		Frequency	3452.5	3500	3528.3
	SCC	Channel	42232	42707	42990
		Frequency	3464.2	3511.7	3540

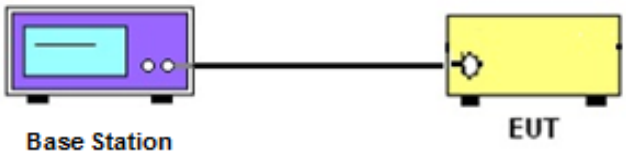
3 Conducted Test Items

3.1 Measuring Instruments

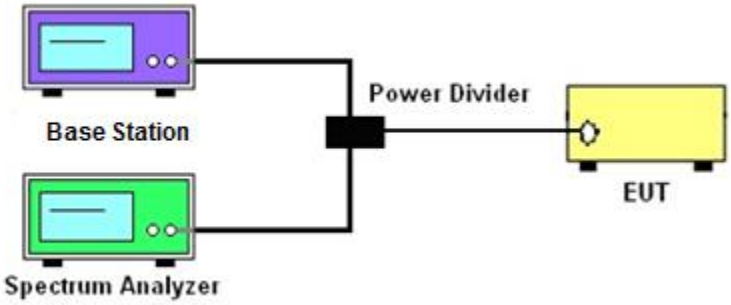
See list of measuring instruments of this test report.

3.2 Test Setup

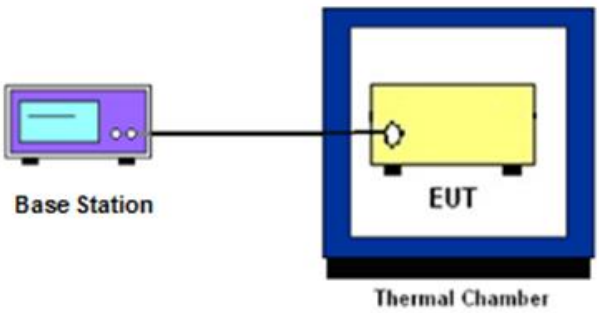
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

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 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. 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

3.7 Occupied Bandwidth

3.7.1 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.

3.7.2 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.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

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 band edges of low and high channels for the highest RF powers were measured.
4. Set RBW ≥ 1% EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed −13 dBm/MHz.

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

3.9.2 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. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. Checked that all the results comply with the emission limit line.

3.10 Frequency Stability Measurement

3.10.1 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.

3.10.2 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.

3.10.3 Test Procedures for Voltage Variation

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

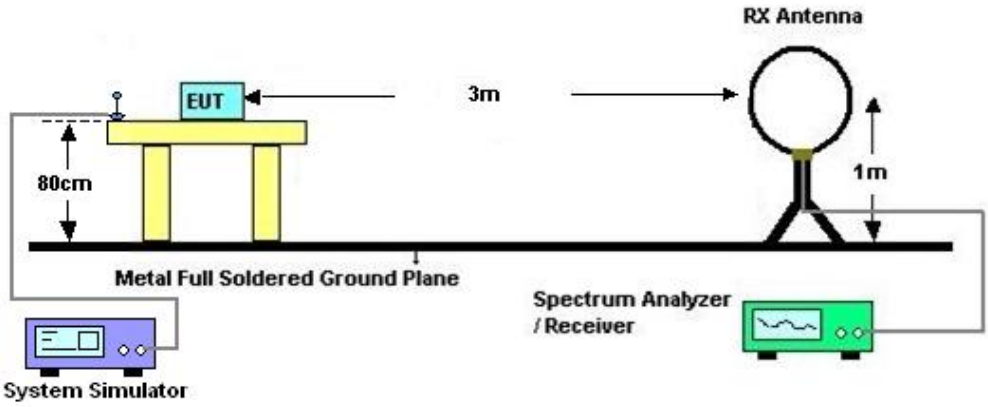
4 Radiated Test Items

4.1 Measuring Instruments

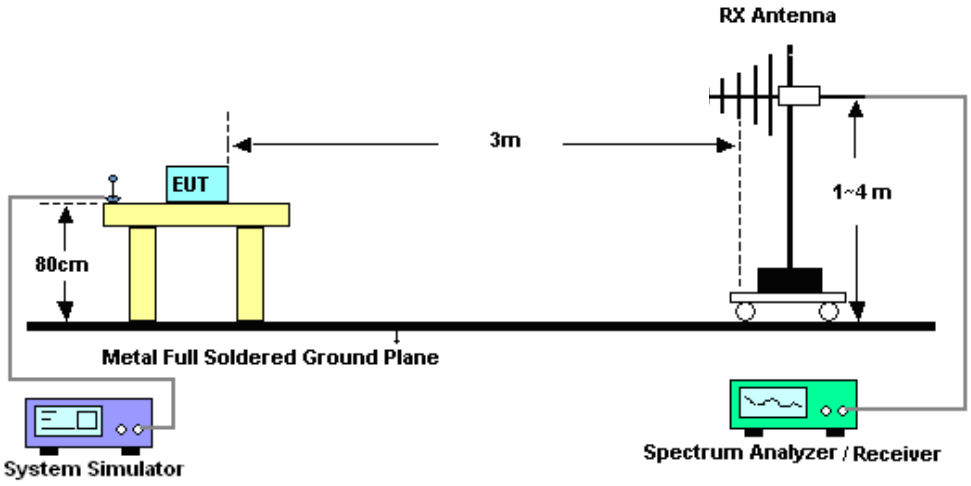
See list of measuring instruments of this test report.

4.2 Test Setup

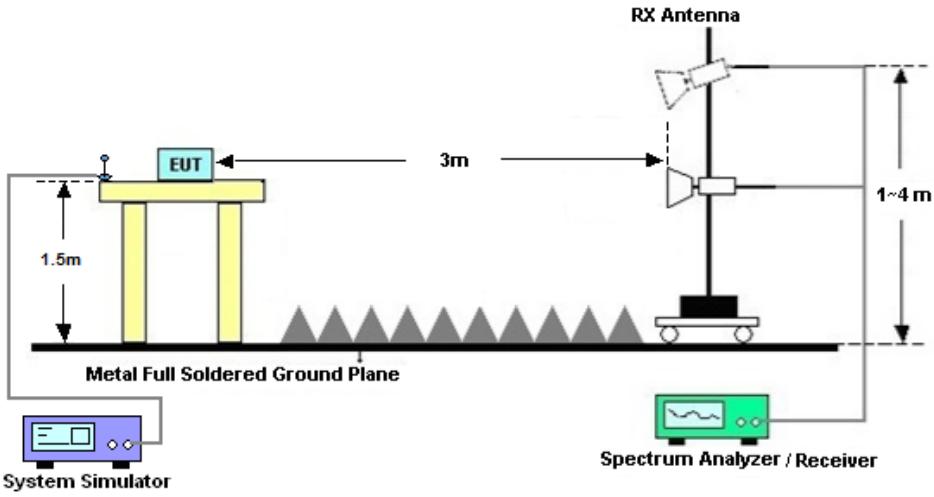
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission outside of the authorized operating frequency ranges shall not exceed −13 dBm/MHz.

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.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = EIRP - 2.15
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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	Sep. 19, 2022~ Sep. 20, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 25, 2022	Sep. 19, 2022~ Sep. 20, 2022	Aug. 24, 2023	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011 440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Sep. 19, 2022~ Sep. 20, 2022	Jul. 14, 2023	Conducted (TH01-KS)
EMI Test Receiver&SA	Agilent	N9038A	MY52260 185	20Hz~26.5GHz	Dec.27, 2021	Oct. 09, 2022	Dec.26, 2022	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Oct. 09, 2022	Jul. 27, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270 105	0.5GHz~26.5Ghz	Oct. 22, 2021	Oct. 09, 2022	Oct. 21, 2022	Radiation (03CH01-SZ
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Sep. 28, 2021	Oct. 09, 2022	Sep. 27, 2023	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 07, 2022	Oct. 09, 2022	Jul. 06, 2023	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	Oct. 09, 2022	Apr. 09, 2023	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 06, 2022	Oct. 09, 2022	Apr. 05, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Oct. 09, 2022	Oct. 21,2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 06, 2022	Oct. 09, 2022	Jul. 05, 2023	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000 1985	N/A	NCR	Oct. 09, 2022	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 09, 2022	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 09, 2022	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.10 %

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.48 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.53 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.02 dB

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

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 42-Ant 12						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				42190	42590	42990
Frequency (MHz)				3460	3500	3540
20	QPSK	1	0	24.87	24.97	24.92
20	QPSK	1	49	24.79	24.88	24.80
20	QPSK	1	99	24.69	24.82	24.70
20	QPSK	50	0	24.78	24.87	24.73
20	QPSK	50	24	24.70	24.81	24.71
20	QPSK	50	50	24.74	24.78	24.63
20	QPSK	100	0	24.71	24.82	24.74
20	16QAM	1	0	24.67	24.76	24.72
20	16QAM	1	49	24.58	24.62	24.47
20	16QAM	1	99	24.62	24.67	24.58
20	16QAM	50	0	23.73	23.83	23.74
20	16QAM	50	24	23.65	23.72	23.58
20	16QAM	50	50	23.58	23.72	23.59
20	16QAM	100	0	23.68	23.81	23.72
20	64QAM	1	0	23.73	23.79	23.68
20	64QAM	1	49	23.59	23.71	23.66
20	64QAM	1	99	23.66	23.69	23.57
20	64QAM	50	0	22.75	22.86	22.79
20	64QAM	50	24	22.71	22.78	22.73
20	64QAM	50	50	22.66	22.80	22.71
20	64QAM	100	0	22.75	22.82	22.70
20	256QAM	1	0	19.87	19.95	19.80
20	256QAM	1	49	19.79	19.82	19.74
20	256QAM	1	99	19.70	19.84	19.76
20	256QAM	50	0	19.98	20.02	19.90
20	256QAM	50	24	19.90	19.98	19.94
20	256QAM	50	50	19.78	19.89	19.75
20	256QAM	100	0	19.96	20.03	19.94
Channel				42165	42590	43015
Frequency (MHz)				3457.5	3500	3542.5
15	QPSK	1	0	24.82	24.84	24.85
15	QPSK	1	37	24.67	24.84	24.76
15	QPSK	1	74	24.63	24.70	24.57

15	QPSK	36	0	24.68	24.70	24.69
15	QPSK	36	20	24.66	24.74	24.55
15	QPSK	36	39	24.66	24.76	24.59
15	QPSK	75	0	24.70	24.79	24.64
15	16QAM	1	0	24.58	24.69	24.54
15	16QAM	1	37	24.53	24.55	24.30
15	16QAM	1	74	24.49	24.65	24.52
15	16QAM	36	0	23.70	23.69	23.63
15	16QAM	36	20	23.47	23.69	23.42
15	16QAM	36	39	23.40	23.61	23.47
15	16QAM	75	0	23.64	23.64	23.61
15	64QAM	1	0	23.67	23.73	23.65
15	64QAM	1	37	23.56	23.61	23.61
15	64QAM	1	74	23.50	23.65	23.40
15	64QAM	36	0	22.57	22.82	22.69
15	64QAM	36	20	22.68	22.59	22.64
15	64QAM	36	39	22.63	22.77	22.61
15	64QAM	75	0	22.62	22.78	22.68
15	256QAM	1	0	19.78	19.82	19.76
15	256QAM	1	37	19.65	19.76	19.62
15	256QAM	1	74	19.60	19.78	19.67
15	256QAM	36	0	19.93	19.92	19.80
15	256QAM	36	20	19.79	19.93	19.83
15	256QAM	36	39	19.67	19.81	19.60
15	256QAM	75	0	19.87	19.91	19.90
Channel				42140	42590	43040
Frequency (MHz)				3455	3500	3545
10	QPSK	1	0	24.77	24.88	24.86
10	QPSK	1	25	24.70	24.85	24.73
10	QPSK	1	49	24.65	24.69	24.56
10	QPSK	25	0	24.67	24.75	24.69
10	QPSK	25	12	24.51	24.78	24.66
10	QPSK	25	25	24.58	24.66	24.56
10	QPSK	50	0	24.59	24.81	24.67
10	16QAM	1	0	24.50	24.67	24.53
10	16QAM	1	25	24.43	24.43	24.38
10	16QAM	1	49	24.44	24.64	24.40
10	16QAM	25	0	23.68	23.79	23.62
10	16QAM	25	12	23.62	23.66	23.57
10	16QAM	25	25	23.43	23.69	23.47
10	16QAM	50	0	23.57	23.76	23.69
10	64QAM	1	0	23.58	23.62	23.65
10	64QAM	1	25	23.55	23.56	23.50
10	64QAM	1	49	23.60	23.56	23.43

10	64QAM	25	0	22.73	22.69	22.75
10	64QAM	25	12	22.54	22.72	22.55
10	64QAM	25	25	22.47	22.78	22.59
10	64QAM	50	0	22.71	22.66	22.55
10	256QAM	1	0	19.75	19.90	19.74
10	256QAM	1	25	19.66	19.78	19.67
10	256QAM	1	49	19.65	19.70	19.62
10	256QAM	25	0	19.94	19.87	19.80
10	256QAM	25	12	19.77	19.94	19.85
10	256QAM	25	25	19.72	19.83	19.66
10	256QAM	50	0	19.87	19.93	19.82
Channel				42115	42590	43065
Frequency (MHz)				3452.5	3500	3547.5
5	QPSK	1	0	24.84	24.82	24.85
5	QPSK	1	12	24.65	24.83	24.70
5	QPSK	1	24	24.58	24.67	24.58
5	QPSK	12	0	24.74	24.79	24.64
5	QPSK	12	7	24.54	24.70	24.60
5	QPSK	12	13	24.62	24.61	24.53
5	QPSK	25	0	24.56	24.69	24.66
5	16QAM	1	0	24.50	24.59	24.68
5	16QAM	1	12	24.51	24.59	24.32
5	16QAM	1	24	24.55	24.59	24.55
5	16QAM	12	0	23.72	23.80	23.67
5	16QAM	12	7	23.47	23.65	23.42
5	16QAM	12	13	23.49	23.69	23.47
5	16QAM	25	0	23.57	23.66	23.59
5	64QAM	1	0	23.66	23.77	23.58
5	64QAM	1	12	23.42	23.66	23.59
5	64QAM	1	24	23.63	23.58	23.53
5	64QAM	12	0	22.74	22.82	22.76
5	64QAM	12	7	22.66	22.63	22.59
5	64QAM	12	13	22.61	22.64	22.55
5	64QAM	25	0	22.63	22.65	22.60
5	256QAM	1	0	19.80	19.84	19.75
5	256QAM	1	12	19.70	19.79	19.69
5	256QAM	1	24	19.63	19.81	19.68
5	256QAM	12	0	19.86	19.98	19.82
5	256QAM	12	7	19.84	19.92	19.85
5	256QAM	12	13	19.65	19.75	19.68
5	256QAM	25	0	19.83	19.90	19.89

CA Power and EIRP

LTE Band 42C-Ant 12							
Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	24.81	0.1321
M	QPSK	1	Max	1	0	24.94	0.1361
H	QPSK	1	Max	1	0	24.88	0.1343
L	16QAM	1	Max	1	0	24.63	0.1268
M	16QAM	1	Max	1	0	24.33	0.1183
H	16QAM	1	Max	1	0	24.12	0.1127
L	64QAM	1	Max	1	0	23.04	0.0879
M	64QAM	1	Max	1	0	23.06	0.0883
H	64QAM	1	Max	1	0	23.18	0.0908
L	256QAM	1	Max	1	0	19.06	0.0352
M	256QAM	1	Max	1	0	19.43	0.0383
H	256QAM	1	Max	1	0	19.52	0.0391
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	24.84	0.1330
L	16QAM	1	Max	1	0	23.46	0.0968
Combination 15MHz+20MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	24.78	0.1312
L	16QAM	1	Max	1	0	24.41	0.1205
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	24.70	0.1288
L	16QAM	1	Max	1	0	24.33	0.1183
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured	EIRP(W)

		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	24.65	0.1274
L	16QAM	1	Max	1	0	24.26	0.1164
Combination 20MHz+5MHz (100RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	24.68	0.1282
L	16QAM	1	Max	1	0	24.28	0.1169
Combination 5MHz+20MHz (25RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	24.62	0.1265
L	16QAM	1	Max	1	0	24.20	0.1148

EIRP

LTE Band 42 (GT - LC = -3.6 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	42115	42590	43065	42140	42590	43040	42165	42590	43015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	3452.5	3500	3547.5	3455	3500	3545	3457.5	3500	3542.5
Conducted Power (dBm)	24.84	24.82	24.85	24.77	24.88	24.86	24.82	24.84	24.85
Conducted Power (Watts)	0.3048	0.3034	0.3055	0.2999	0.3076	0.3062	0.3034	0.3048	0.3055
EIRP(dBm)	21.24	21.22	21.25	21.17	21.28	21.26	21.22	21.24	21.25
EIRP(Watts)	0.1330	0.1324	0.1334	0.1309	0.1343	0.1337	0.1324	0.1330	0.1334

LTE Band 42 (GT - LC = -3.6 dB) QPSK			
Bandwidth	20M		
Channel	42190	42590	42990
	(Low)	(Mid)	(High)
Frequency (MHz)	3460	3500	3540
Conducted Power (dBm)	24.87	24.97	24.92
Conducted Power (Watts)	0.3069	0.3141	0.3105
EIRP(dBm)	21.27	21.37	21.32
EIRP(Watts)	0.1340	0.1371	0.1355

LTE Band 42 (GT - LC = -3.6 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	42115	42590	43065	42140	42590	43040	42165	42590	43015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	3452.5	3500	3547.5	3455	3500	3545	3457.5	3500	3542.5
Conducted Power (dBm)	24.50	24.59	24.68	24.50	24.67	24.53	24.58	24.69	24.54
Conducted Power (Watts)	0.2818	0.2877	0.2938	0.2818	0.2931	0.2838	0.2871	0.2944	0.2844
EIRP(dBm)	20.90	20.99	21.08	20.90	21.07	20.93	20.98	21.09	20.94
EIRP(Watts)	0.1230	0.1256	0.1282	0.1230	0.1279	0.1239	0.1253	0.1285	0.1242

LTE Band 42 (GT - LC = -3.6 dB) 16QAM			
Bandwidth	20M		
Channel	42190	42590	42990
	(Low)	(Mid)	(High)
Frequency (MHz)	3460	3500	3540
Conducted Power (dBm)	24.67	24.76	24.72
Conducted Power (Watts)	0.2931	0.2992	0.2965
EIRP(dBm)	21.07	21.16	21.12
EIRP(Watts)	0.1279	0.1306	0.1294

LTE Band 42 (GT - LC = -3.6 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	42115	42590	43065	42140	42590	43040	42165	42590	43015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	3452.5	3500	3547.5	3455	3500	3545	3457.5	3500	3542.5
Conducted Power (dBm)	23.66	23.77	23.58	23.58	23.62	23.65	23.67	23.73	23.65
Conducted Power (Watts)	0.2323	0.2382	0.2280	0.2280	0.2301	0.2317	0.2328	0.2360	0.2317
EIRP(dBm)	20.06	20.17	19.98	19.98	20.02	20.05	20.07	20.13	20.05
EIRP(Watts)	0.1014	0.1040	0.0995	0.0995	0.1005	0.1012	0.1016	0.1030	0.1012

LTE Band 42 (GT - LC = -3.6 dB) 64QAM			
Bandwidth	20M		
Channel	42190	42590	42990
	(Low)	(Mid)	(High)
Frequency (MHz)	3460	3500	3540
Conducted Power (dBm)	23.73	23.79	23.68
Conducted Power (Watts)	0.2360	0.2393	0.2333
EIRP(dBm)	20.13	20.19	20.08
EIRP(Watts)	0.1030	0.1045	0.1019

LTE Band 42 (GT - LC = -3.6 dB) 256QAM									
Bandwidth	5M			10M			15M		
Channel	42115	42590	43065	42140	42590	43040	42165	42590	43015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	3452.5	3500	3547.5	3455	3500	3545	3457.5	3500	3542.5
Conducted Power (dBm)	19.86	19.98	19.82	19.77	19.94	19.85	19.79	19.93	19.83
Conducted Power (Watts)	0.0968	0.0995	0.0959	0.0948	0.0986	0.0966	0.0953	0.0984	0.0962
EIRP(dBm)	16.26	16.38	16.22	16.17	16.34	16.25	16.19	16.33	16.23
EIRP(Watts)	0.0423	0.0435	0.0419	0.0414	0.0431	0.0422	0.0416	0.0430	0.0420

LTE Band 42 (GT - LC = -3.6 dB) 256QAM			
Bandwidth	20M		
Channel	42190	42590	42990
	(Low)	(Mid)	(High)
Frequency (MHz)	3460	3500	3540
Conducted Power (dBm)	19.96	20.03	19.94
Conducted Power (Watts)	0.0991	0.1007	0.0986
EIRP(dBm)	16.36	16.43	16.34
EIRP(Watts)	0.0433	0.0440	0.0431

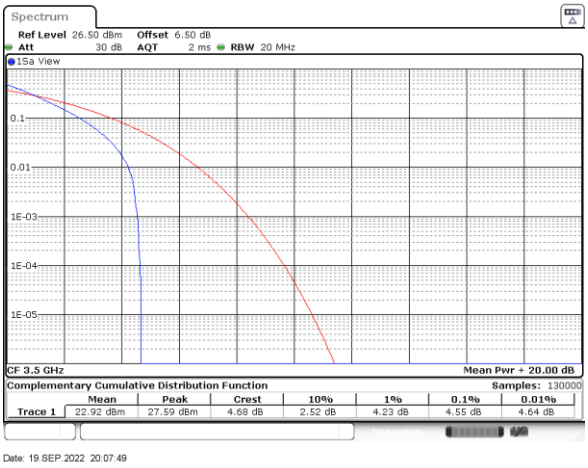
LTE Band 42

Peak-to-Average Ratio

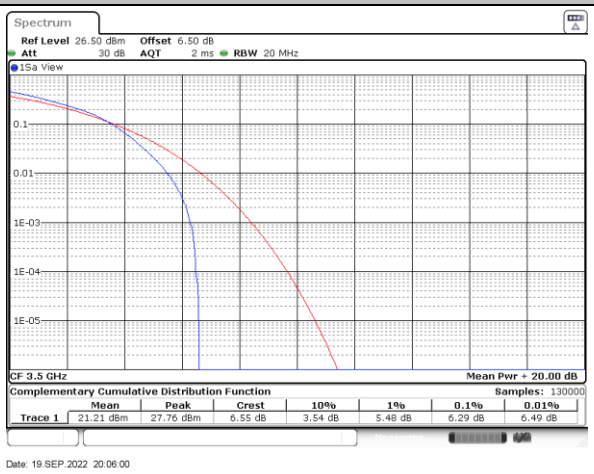
Mode	LTE Band 42 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.55	6.29	6.84	6.46	PASS

LTE Band 42/ 20MHz

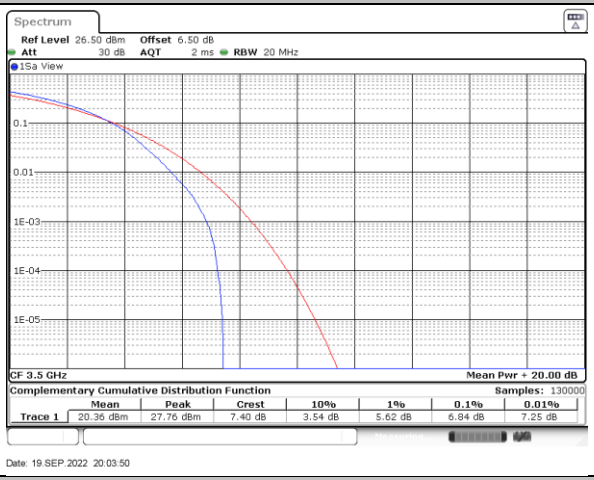
Middle Channel / Full RB / QPSK



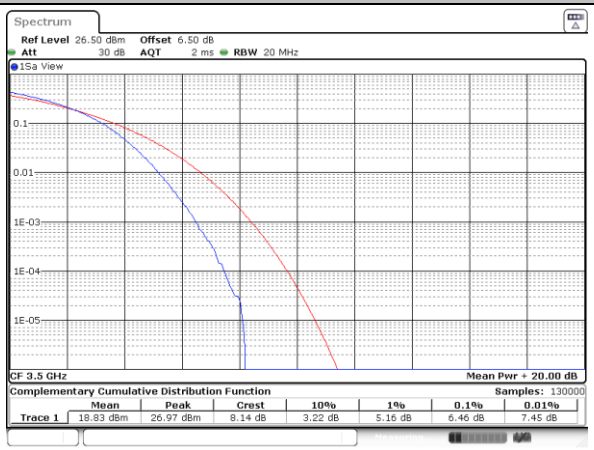
Middle Channel / Full RB / 16QAM



Middle Channel / Full RB / 64QAM

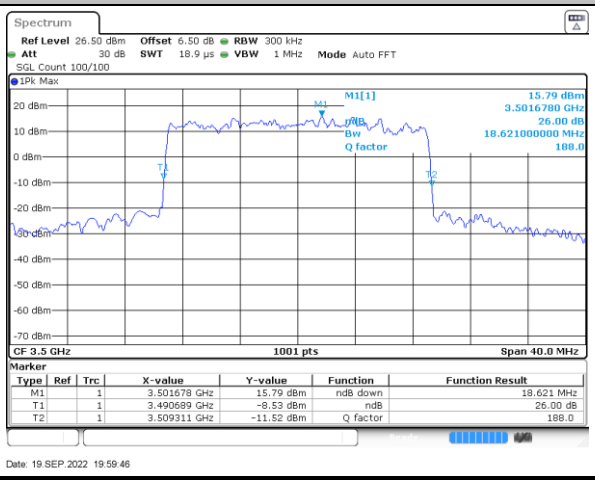
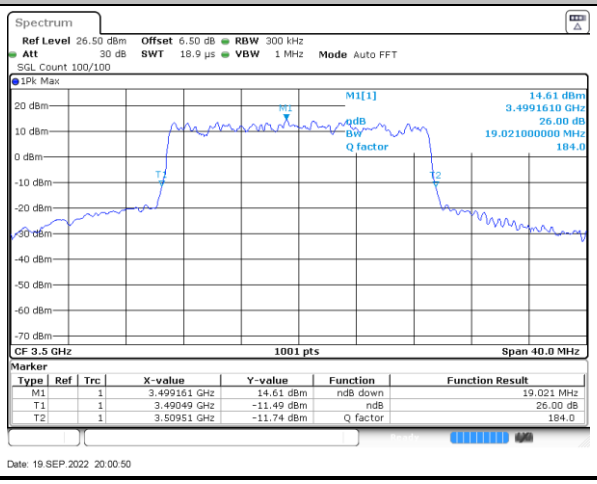


Middle Channel / Full RB / 256QAM



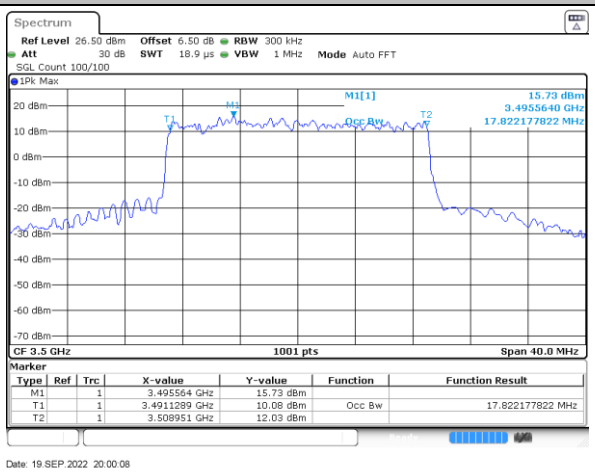
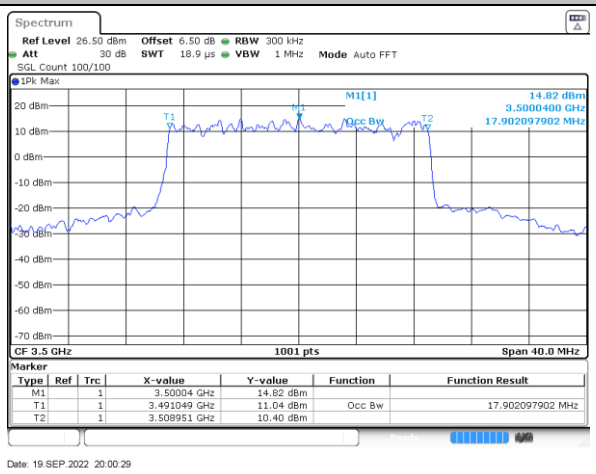
26dB Bandwidth

Mode	LTE Band 42 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.62	19.02

LTE Band 42	
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM
	

Occupied Bandwidth

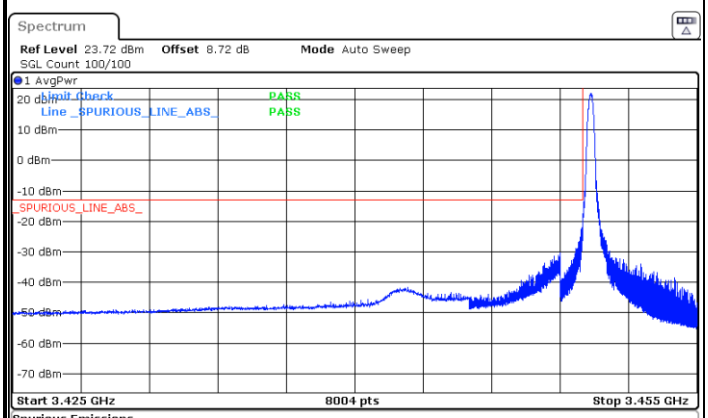
Mode	LTE Band 42: 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.82	17.90

LTE Band 42	
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM
	

Conducted Band Edge

LTE Band 42 / 5MHz / QPSK

Lowest Band Edge / 1 RB

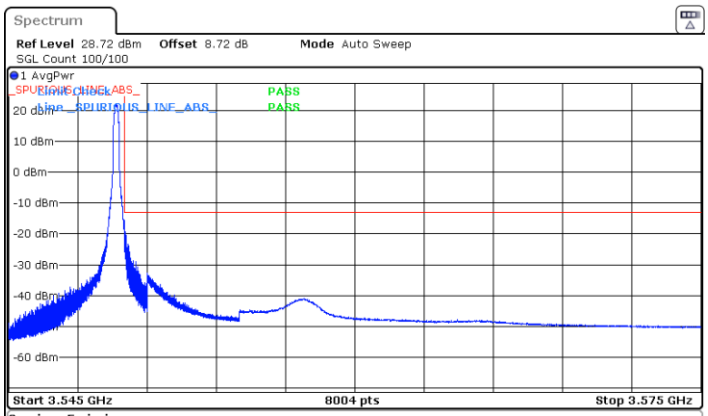


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44231 GHz	-41.71 dBm	-28.71 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44900 GHz	-30.33 dBm	-17.33 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-19.06 dBm	-6.06 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45035 GHz	22.11 dBm	-7.89 dB

Date: 19.SEP.2022 17:51:49

Highest Band Edge / 1 RB

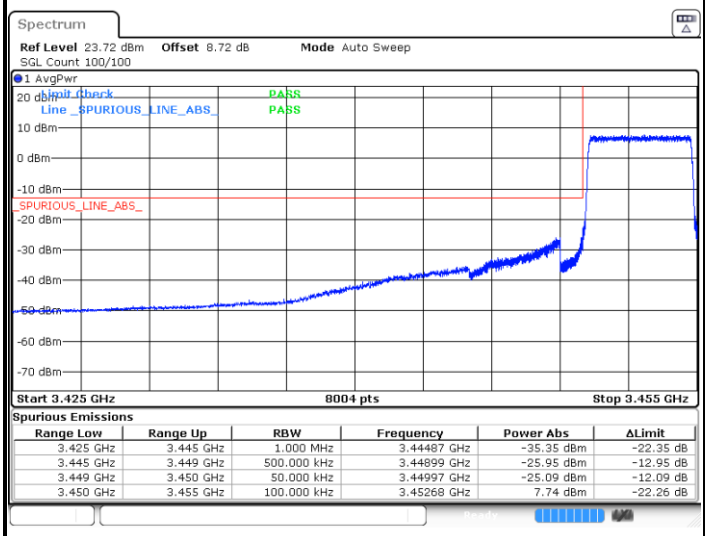


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54969 GHz	21.92 dBm	-8.08 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-15.67 dBm	-2.67 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-32.54 dBm	-19.54 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55780 GHz	-40.98 dBm	-27.98 dB

Date: 19.SEP.2022 18:16:53

Lowest Band Edge / Full RB

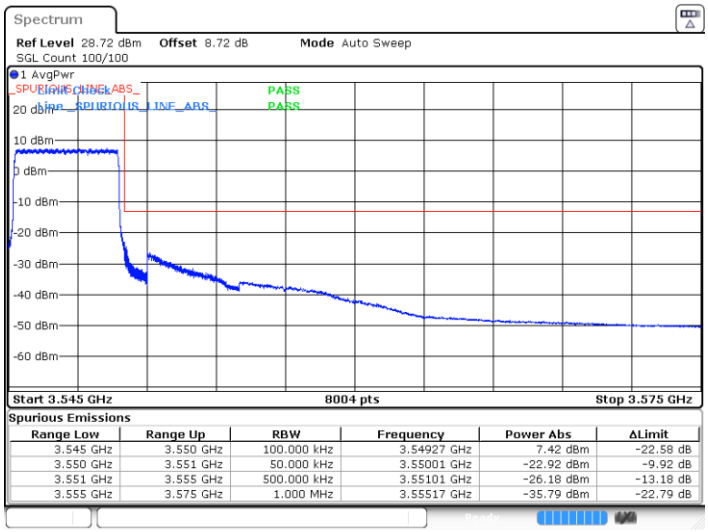


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44487 GHz	-35.35 dBm	-22.35 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44899 GHz	-25.95 dBm	-12.95 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44997 GHz	-25.09 dBm	-12.09 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45268 GHz	7.74 dBm	-22.26 dB

Date: 19.SEP.2022 17:54:59

Highest Band Edge / Full RB



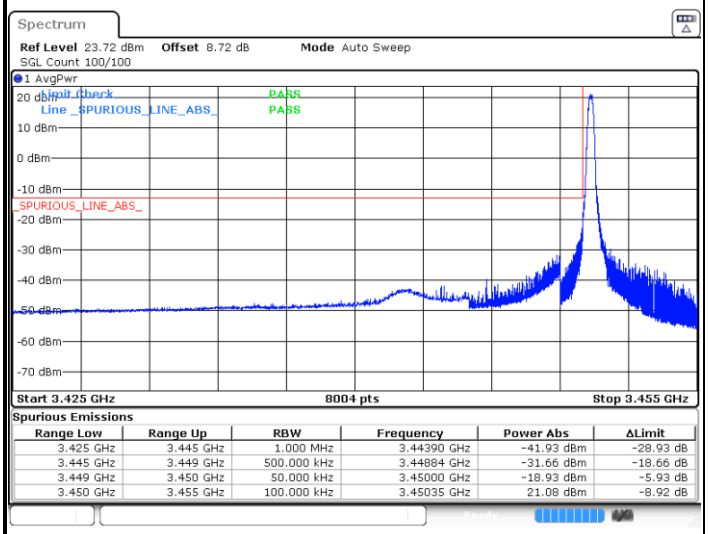
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54927 GHz	7.42 dBm	-22.58 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-22.92 dBm	-9.92 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-26.18 dBm	-13.18 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55517 GHz	-35.79 dBm	-22.79 dB

Date: 19.SEP.2022 18:19:57

LTE Band 42 / 5MHz / 16QAM

Lowest Band Edge / 1RB

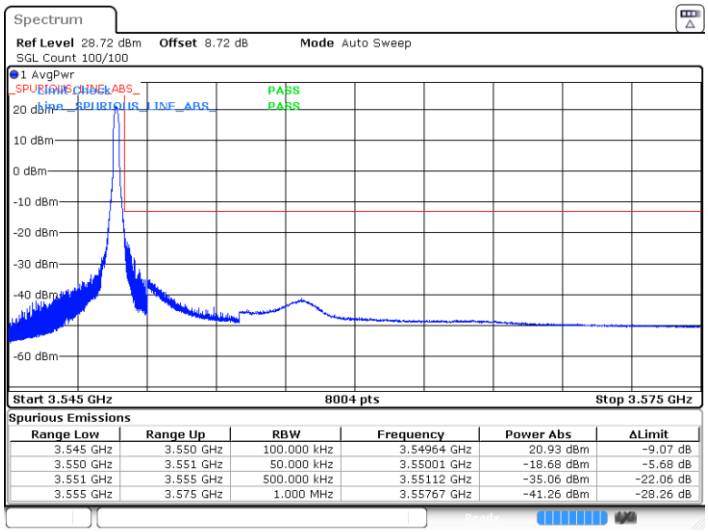


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44390 GHz	-41.93 dBm	-28.93 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44884 GHz	-31.66 dBm	-18.66 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-18.93 dBm	-5.93 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45035 GHz	21.08 dBm	-8.92 dB

Date: 19.SEP.2022 17:52:35

Highest Band Edge / 1 RB

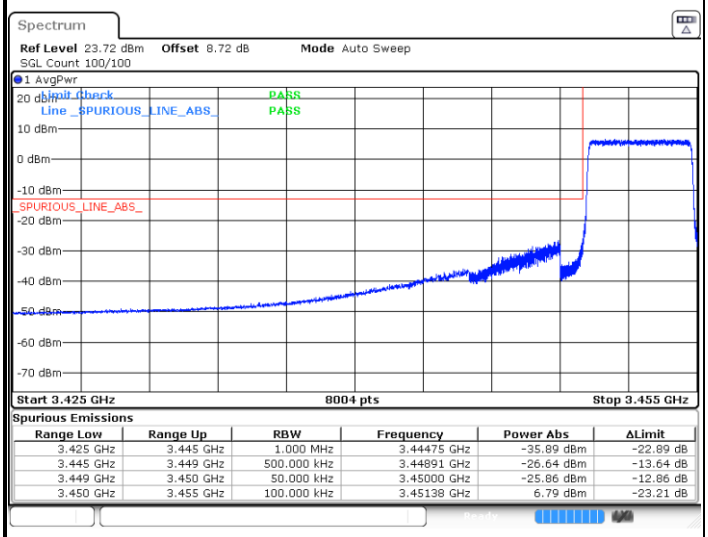


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54964 GHz	20.93 dBm	-9.07 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-18.68 dBm	-5.68 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55112 GHz	-35.06 dBm	-22.06 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55767 GHz	-41.26 dBm	-28.26 dB

Date: 19.SEP.2022 18:17:39

Lowest Band Edge / Full RB

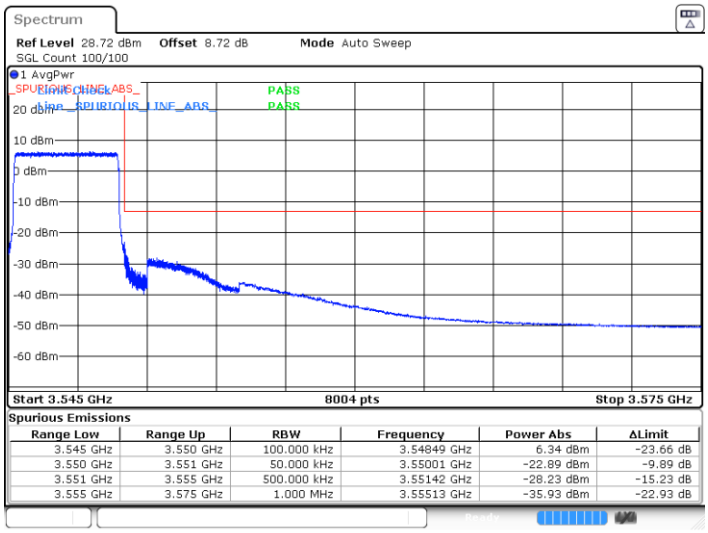


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44475 GHz	-35.89 dBm	-22.89 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44891 GHz	-26.64 dBm	-13.64 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-25.86 dBm	-12.86 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45138 GHz	6.79 dBm	-23.21 dB

Date: 19.SEP.2022 17:55:45

Highest Band Edge / Full RB



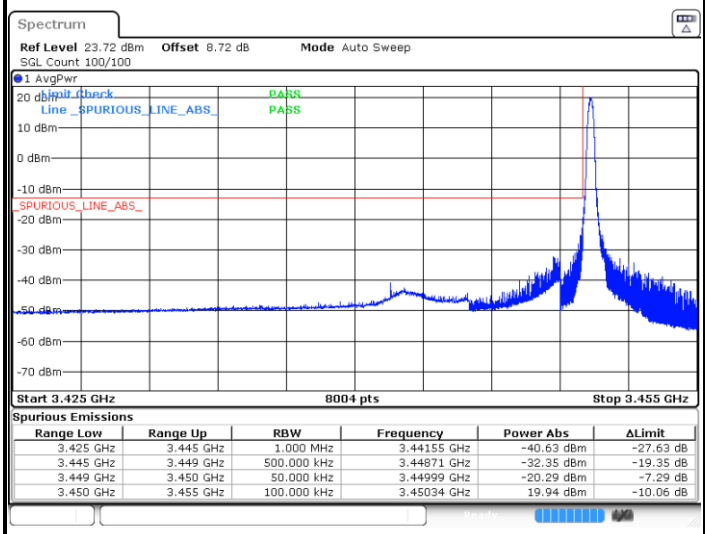
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54849 GHz	6.34 dBm	-23.66 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-22.89 dBm	-9.89 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55142 GHz	-28.23 dBm	-15.23 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55513 GHz	-35.93 dBm	-22.93 dB

Date: 19.SEP.2022 18:20:43

LTE Band 42 / 5MHz / 64QAM

Lowest Band Edge / 1RB

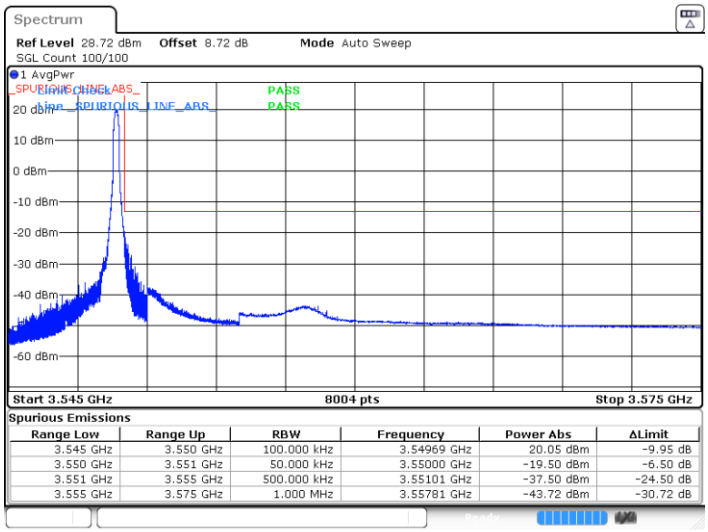


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44155 GHz	-40.63 dBm	-27.63 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44871 GHz	-32.35 dBm	-19.35 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-20.29 dBm	-7.29 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45034 GHz	19.94 dBm	-10.06 dB

Date: 19.SEP.2022 17:53:21

Highest Band Edge / 1 RB

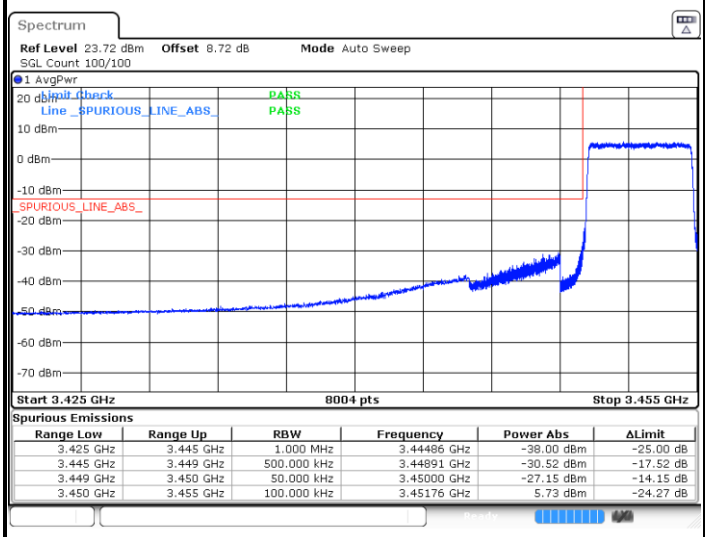


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54969 GHz	20.05 dBm	-9.95 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55000 GHz	-19.50 dBm	-6.50 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-37.50 dBm	-24.50 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55781 GHz	-43.72 dBm	-30.72 dB

Date: 19.SEP.2022 18:18:25

Lowest Band Edge / Full RB

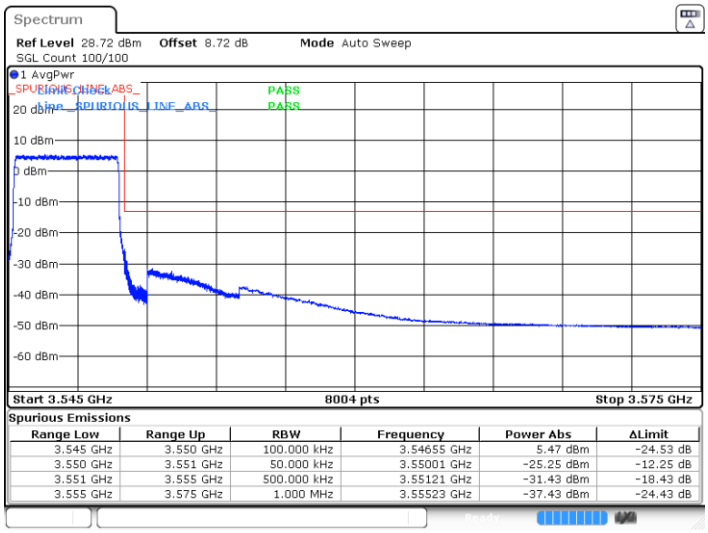


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44486 GHz	-38.00 dBm	-25.00 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44891 GHz	-30.52 dBm	-17.52 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-27.15 dBm	-14.15 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45176 GHz	5.73 dBm	-24.27 dB

Date: 19.SEP.2022 17:56:31

Highest Band Edge / Full RB



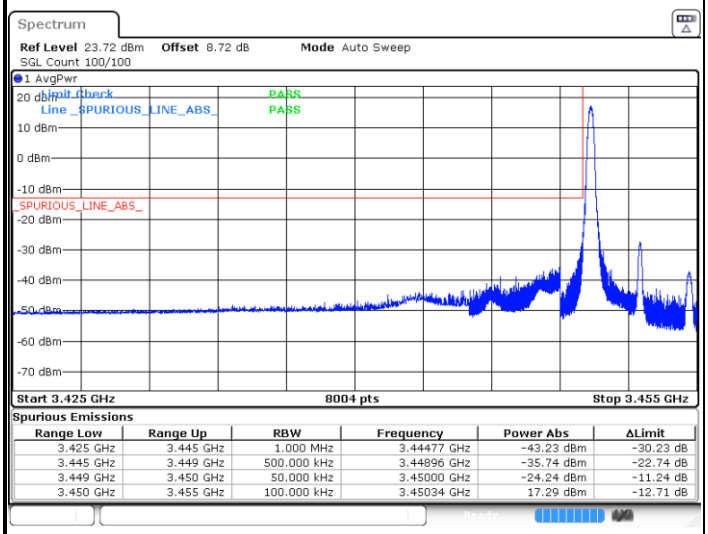
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54655 GHz	5.47 dBm	-24.53 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-25.25 dBm	-12.25 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55121 GHz	-31.43 dBm	-18.43 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55523 GHz	-37.43 dBm	-24.43 dB

Date: 19.SEP.2022 18:21:28

LTE Band 42 / 5MHz / 256QAM

Lowest Band Edge / 1RB

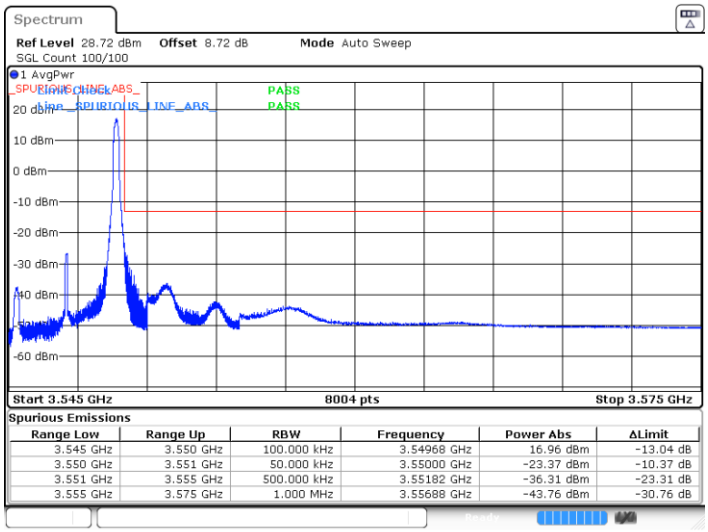


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44477 GHz	-43.23 dBm	-30.23 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44896 GHz	-35.74 dBm	-22.74 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-24.24 dBm	-11.24 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45034 GHz	17.29 dBm	-12.71 dB

Date: 19.SEP.2022 17:54:07

Highest Band Edge / 1 RB

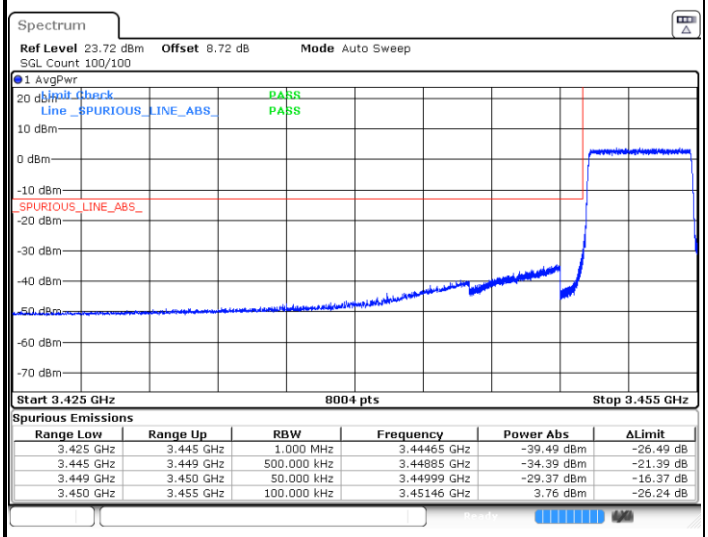


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54968 GHz	16.96 dBm	-13.04 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55000 GHz	-23.37 dBm	-10.37 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55182 GHz	-36.31 dBm	-23.31 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55688 GHz	-43.76 dBm	-30.76 dB

Date: 19.SEP.2022 18:19:11

Lowest Band Edge / Full RB

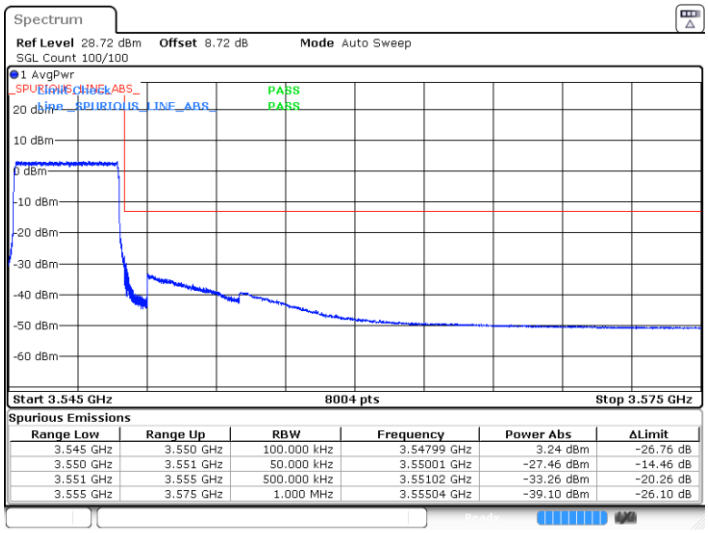


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44465 GHz	-39.49 dBm	-26.49 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44885 GHz	-34.39 dBm	-21.39 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-29.37 dBm	-16.37 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45146 GHz	3.76 dBm	-26.24 dB

Date: 19.SEP.2022 17:57:16

Highest Band Edge / Full RB



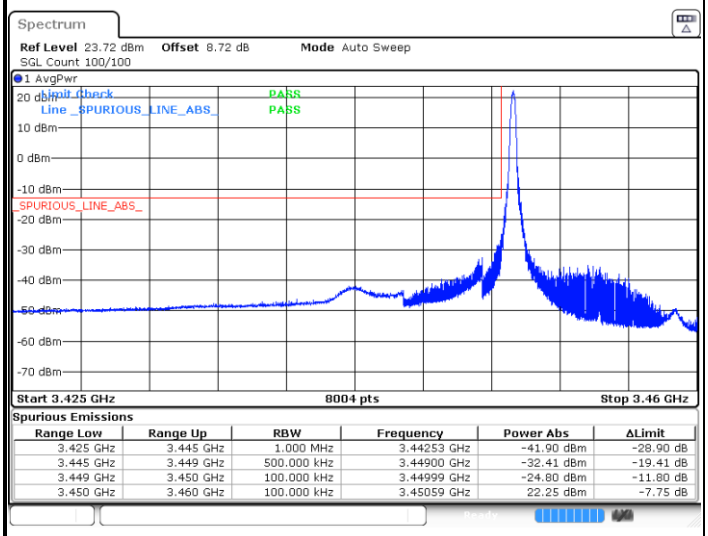
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54799 GHz	3.24 dBm	-26.76 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-27.46 dBm	-14.46 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-33.26 dBm	-20.26 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55504 GHz	-39.10 dBm	-26.10 dB

Date: 19.SEP.2022 18:22:14

LTE Band 42 / 10MHz / QPSK

Lowest Band Edge / 1 RB

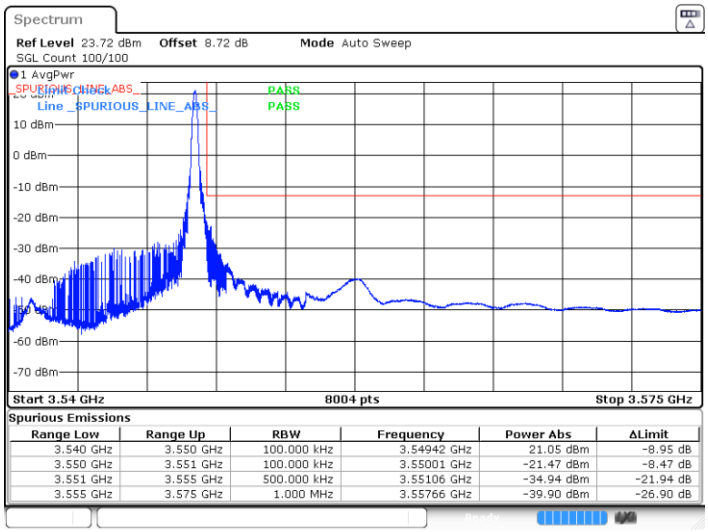


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44253 GHz	-41.90 dBm	-28.90 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44900 GHz	-32.41 dBm	-19.41 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44999 GHz	-24.80 dBm	-11.80 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45059 GHz	22.25 dBm	-7.75 dB

Date: 19.SEP.2022 18:24:22

Highest Band Edge / 1 RB

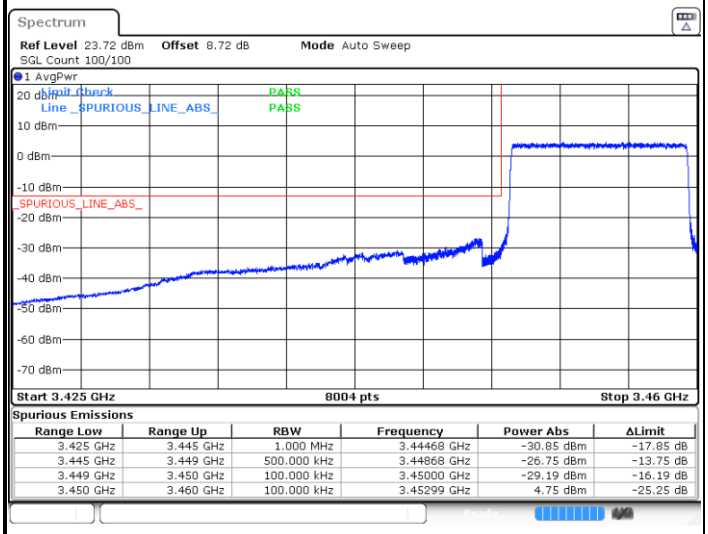


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54942 GHz	21.05 dBm	-8.95 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55001 GHz	-21.47 dBm	-8.47 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55106 GHz	-34.94 dBm	-21.94 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55766 GHz	-39.90 dBm	-26.90 dB

Date: 19.SEP.2022 18:33:08

Lowest Band Edge / Full RB

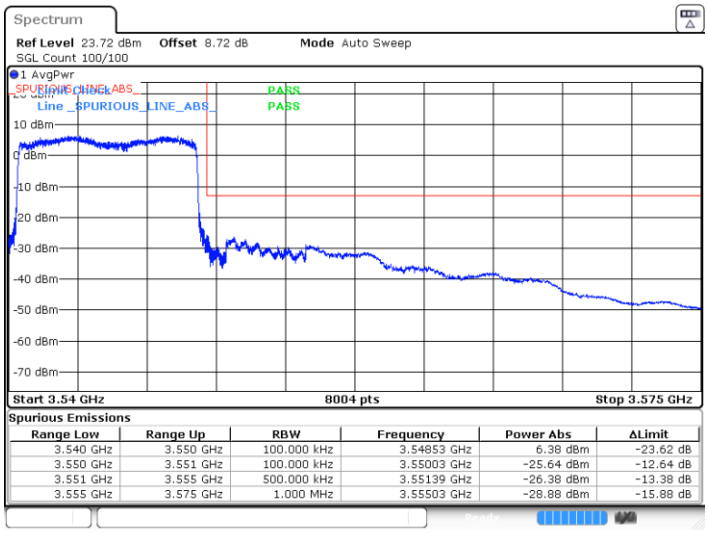


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44468 GHz	-30.85 dBm	-17.85 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44868 GHz	-26.75 dBm	-13.75 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.45000 GHz	-29.19 dBm	-16.19 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45299 GHz	4.75 dBm	-25.25 dB

Date: 19.SEP.2022 18:27:24

Highest Band Edge / Full RB



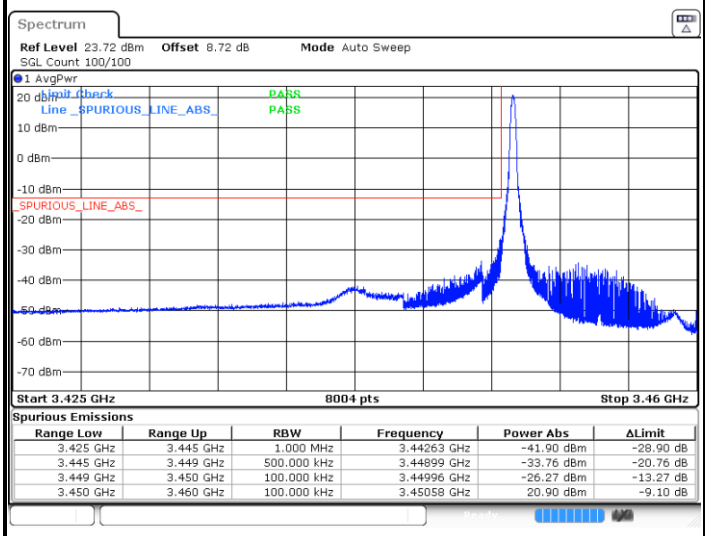
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54853 GHz	6.38 dBm	-23.62 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55003 GHz	-25.64 dBm	-12.64 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55139 GHz	-26.38 dBm	-13.38 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55503 GHz	-28.88 dBm	-15.88 dB

Date: 19.SEP.2022 18:36:10

LTE Band 42 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

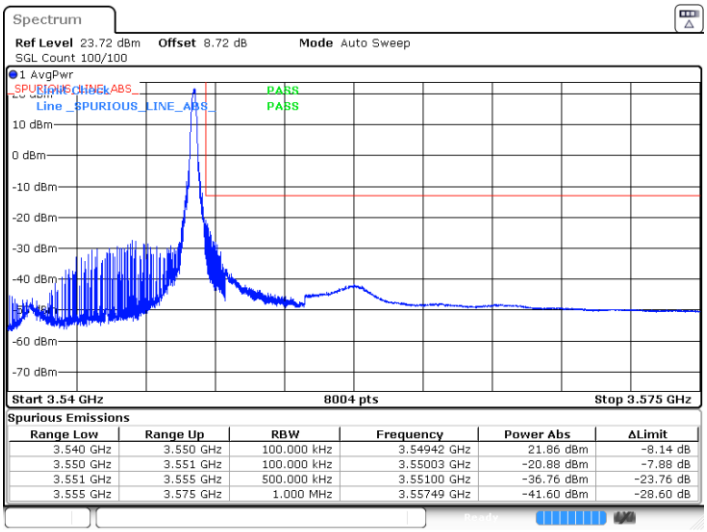


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44263 GHz	-41.90 dBm	-28.90 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44899 GHz	-33.76 dBm	-20.76 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44996 GHz	-26.27 dBm	-13.27 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45058 GHz	20.90 dBm	-9.10 dB

Date: 19.SEP.2022 18:25:08

Highest Band Edge / 1 RB

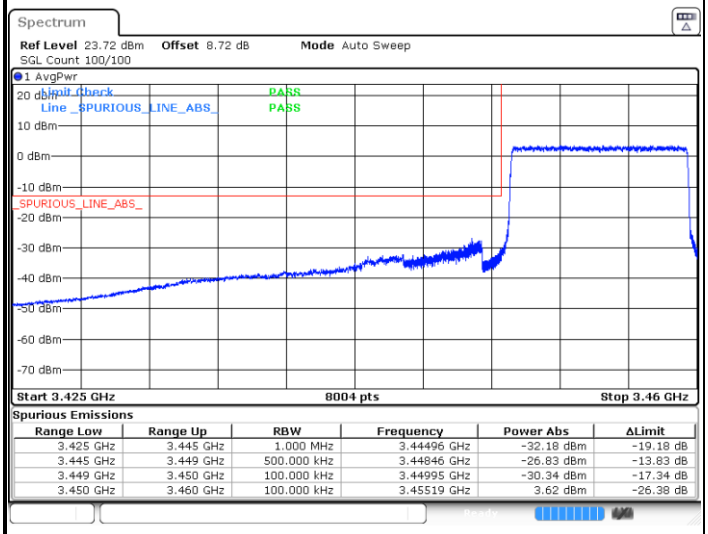


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54942 GHz	21.86 dBm	-8.14 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55003 GHz	-20.88 dBm	-7.88 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55100 GHz	-36.76 dBm	-23.76 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55749 GHz	-41.60 dBm	-28.60 dB

Date: 19.SEP.2022 18:33:54

Lowest Band Edge / Full RB

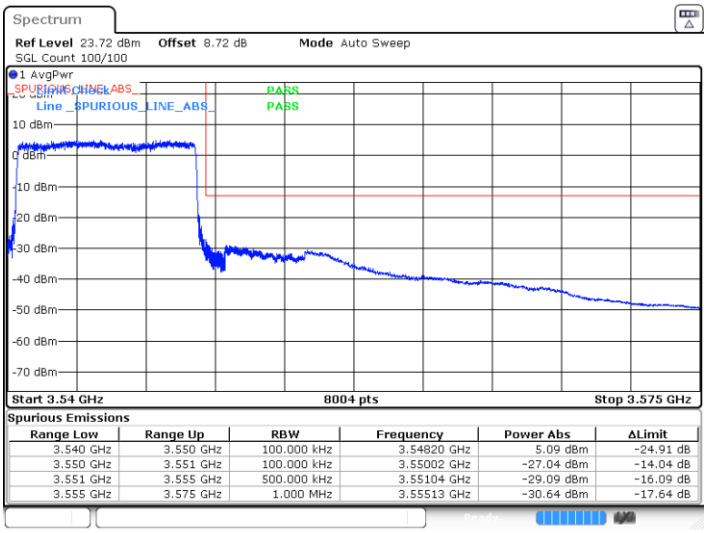


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44496 GHz	-32.18 dBm	-19.18 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44846 GHz	-26.83 dBm	-13.83 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44995 GHz	-30.34 dBm	-17.34 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45519 GHz	3.62 dBm	-26.38 dB

Date: 19.SEP.2022 18:28:10

Highest Band Edge / Full RB



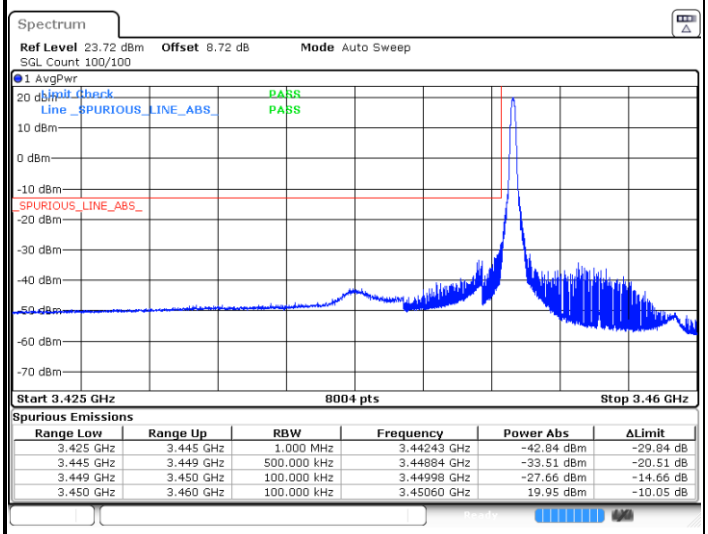
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54820 GHz	5.09 dBm	-24.91 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55002 GHz	-27.04 dBm	-14.04 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55104 GHz	-29.09 dBm	-16.09 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55513 GHz	-30.64 dBm	-17.64 dB

Date: 19.SEP.2022 18:36:56

LTE Band 42/ 10MHz / 64QAM

Lowest Band Edge / 1 RB

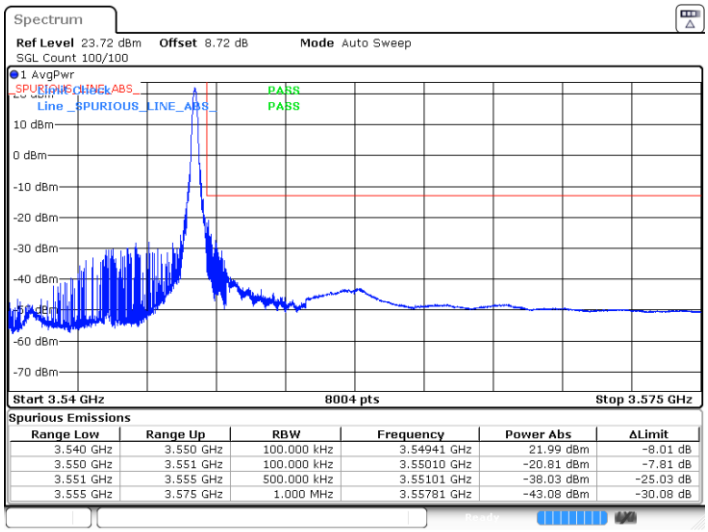


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44243 GHz	-42.84 dBm	-29.84 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44884 GHz	-33.51 dBm	-20.51 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44998 GHz	-27.66 dBm	-14.66 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45060 GHz	19.95 dBm	-10.05 dB

Date: 19.SEP.2022 18:25:53

Highest Band Edge / 1 RB

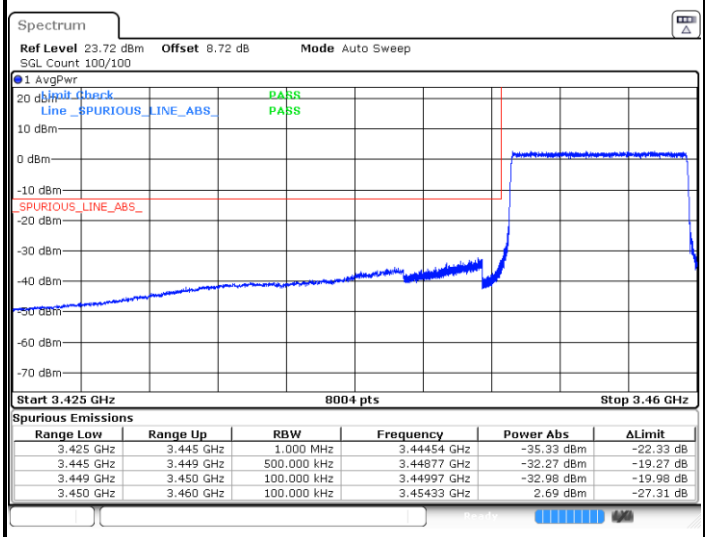


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54941 GHz	21.99 dBm	-8.01 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55010 GHz	-20.81 dBm	-7.81 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-38.03 dBm	-25.03 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55781 GHz	-43.08 dBm	-30.08 dB

Date: 19.SEP.2022 18:34:39

Lowest Band Edge / Full RB

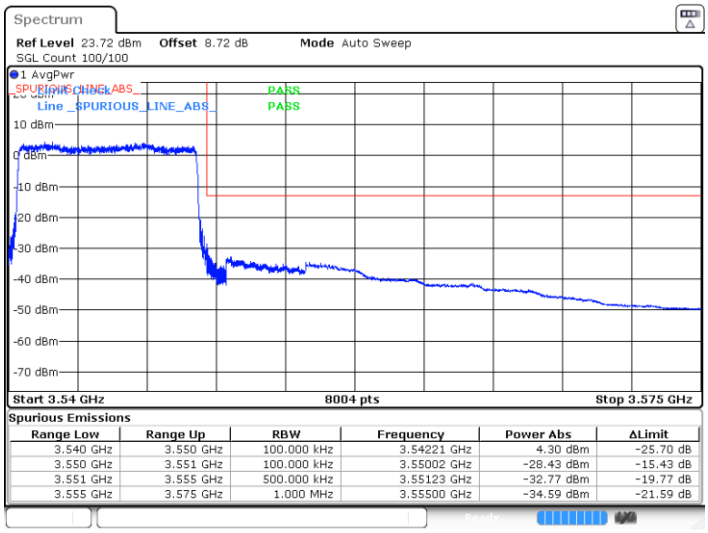


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44454 GHz	-35.33 dBm	-22.33 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44877 GHz	-32.27 dBm	-19.27 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44997 GHz	-32.98 dBm	-19.98 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45433 GHz	2.69 dBm	-27.31 dB

Date: 19.SEP.2022 18:28:55

Highest Band Edge / Full RB



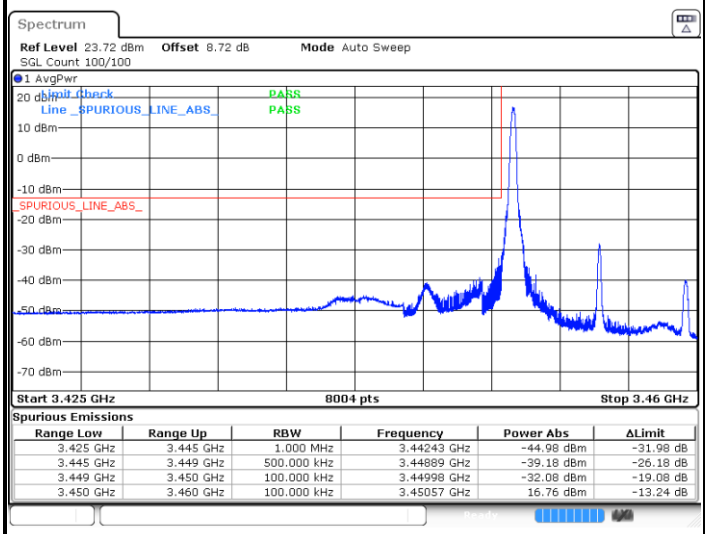
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54221 GHz	4.30 dBm	-25.70 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55002 GHz	-28.43 dBm	-15.43 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55123 GHz	-32.77 dBm	-19.77 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55500 GHz	-34.59 dBm	-21.59 dB

Date: 19.SEP.2022 18:37:41

LTE Band 42 / 10MHz / 256QAM

Lowest Band Edge / 1RB

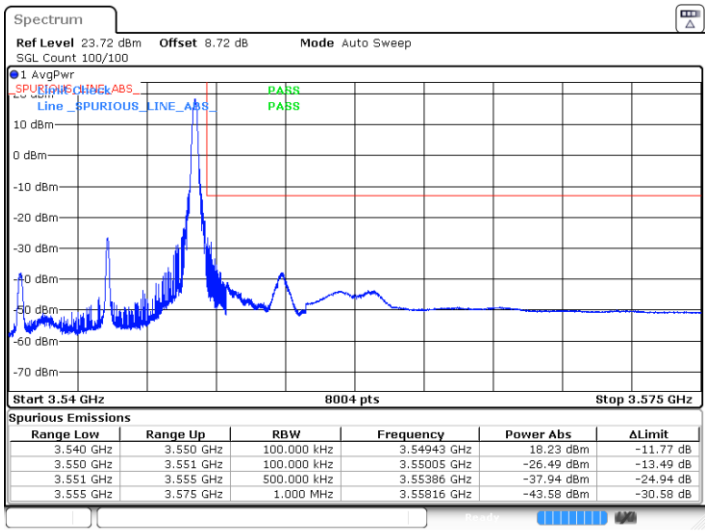


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44243 GHz	-44.98 dBm	-31.98 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44889 GHz	-39.18 dBm	-26.18 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44998 GHz	-32.08 dBm	-19.08 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45057 GHz	16.76 dBm	-13.24 dB

Date: 19.SEP.2022 18:26:39

Highest Band Edge / 1 RB

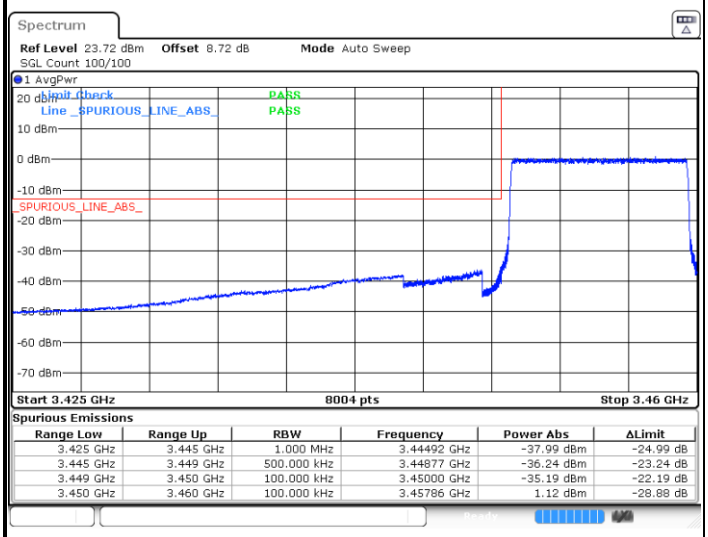


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54943 GHz	18.23 dBm	-11.77 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55005 GHz	-26.49 dBm	-13.49 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55386 GHz	-37.94 dBm	-24.94 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55816 GHz	-43.58 dBm	-30.58 dB

Date: 19.SEP.2022 18:35:25

Lowest Band Edge / Full RB

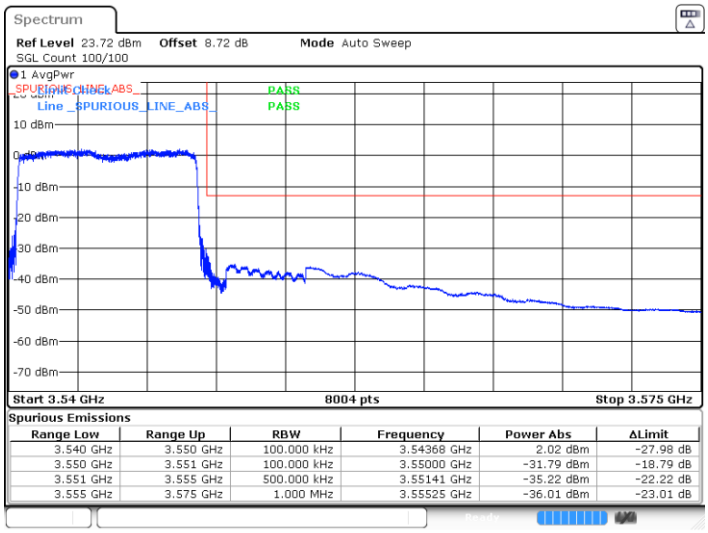


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44492 GHz	-37.99 dBm	-24.99 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44877 GHz	-36.24 dBm	-23.24 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.45000 GHz	-35.19 dBm	-22.19 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45786 GHz	1.12 dBm	-28.88 dB

Date: 19.SEP.2022 18:29:41

Highest Band Edge / Full RB



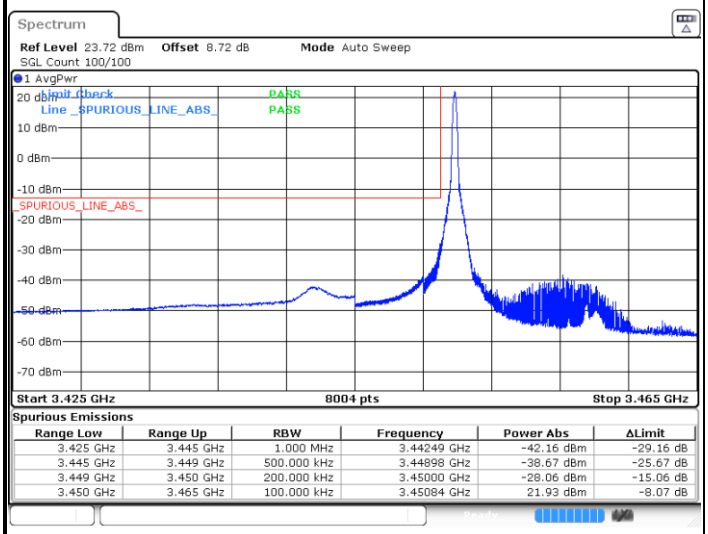
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54368 GHz	2.02 dBm	-27.98 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55000 GHz	-31.79 dBm	-18.79 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55141 GHz	-35.22 dBm	-22.22 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55525 GHz	-36.01 dBm	-23.01 dB

Date: 19.SEP.2022 18:38:27

LTE Band 42 / 15MHz / QPSK

Lowest Band Edge / 1 RB

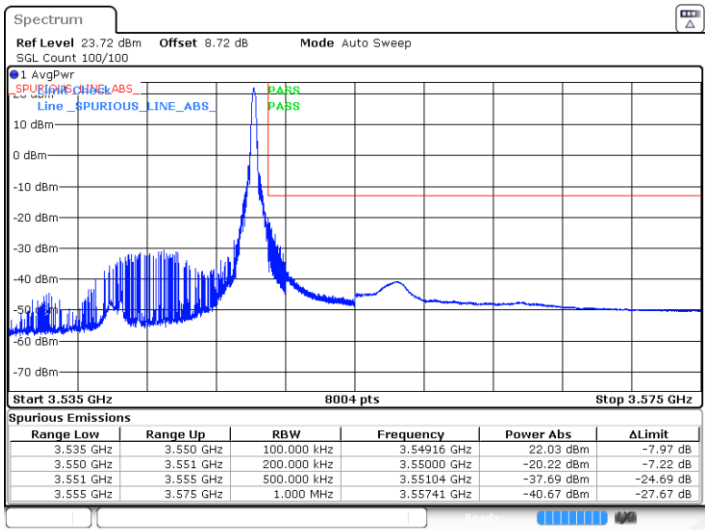


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44249 GHz	-42.16 dBm	-29.16 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44898 GHz	-38.67 dBm	-25.67 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-28.06 dBm	-15.06 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45084 GHz	21.93 dBm	-8.07 dB

Date: 19.SEP.2022 19:03:51

Highest Band Edge / 1 RB

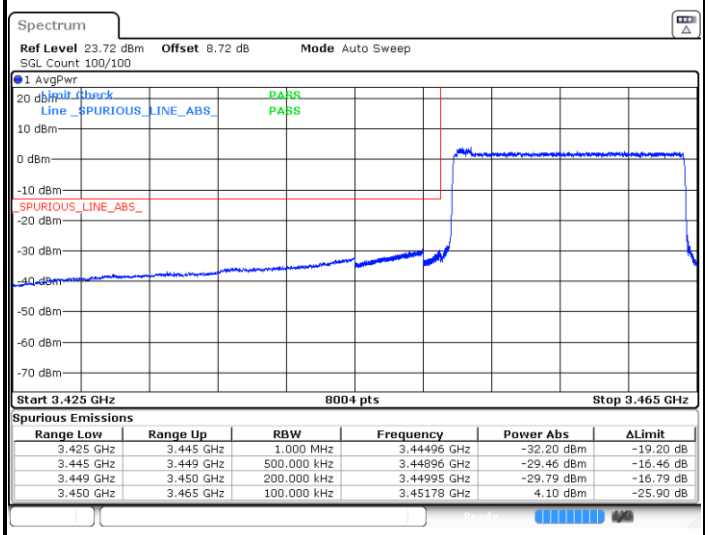


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54916 GHz	22.03 dBm	-7.97 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-20.22 dBm	-7.22 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55104 GHz	-37.69 dBm	-24.69 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55741 GHz	-40.67 dBm	-27.67 dB

Date: 19.SEP.2022 19:23:27

Lowest Band Edge / Full RB

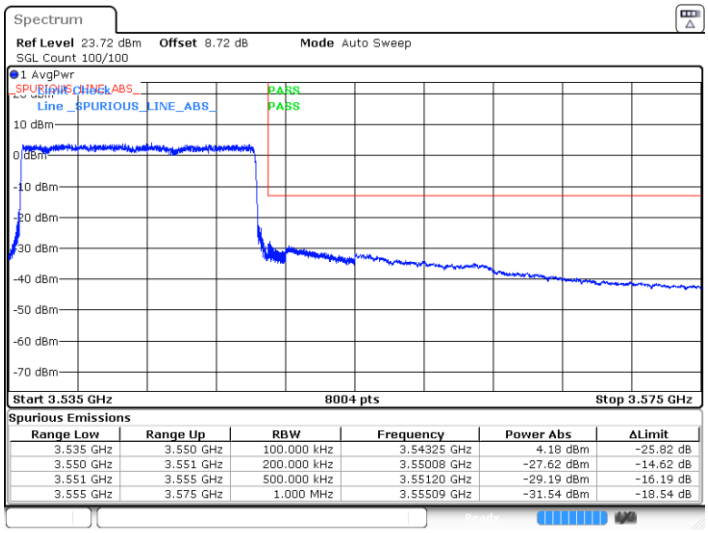


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44496 GHz	-32.20 dBm	-19.20 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44896 GHz	-29.46 dBm	-16.46 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44995 GHz	-29.79 dBm	-16.79 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45178 GHz	4.10 dBm	-25.90 dB

Date: 19.SEP.2022 19:06:57

Highest Band Edge / Full RB



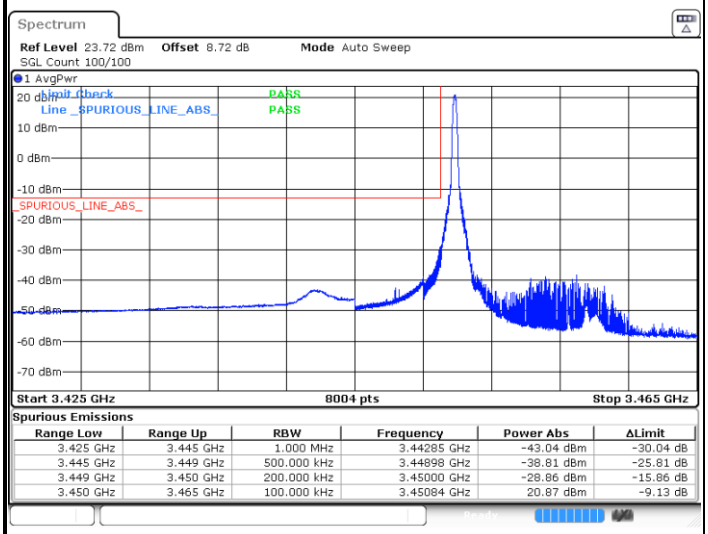
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54325 GHz	4.18 dBm	-25.82 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55008 GHz	-27.62 dBm	-14.62 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55120 GHz	-29.19 dBm	-16.19 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55509 GHz	-31.54 dBm	-18.54 dB

Date: 19.SEP.2022 19:26:29

LTE Band 42 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

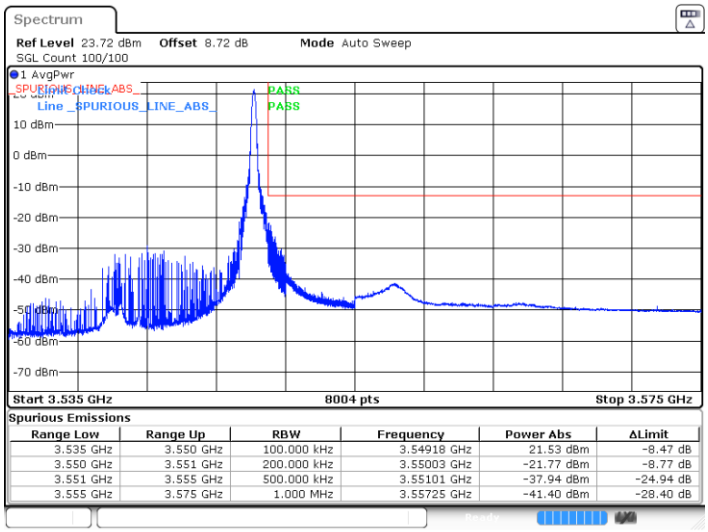


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44285 GHz	-43.04 dBm	-30.04 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44898 GHz	-38.81 dBm	-25.81 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-28.86 dBm	-15.86 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45084 GHz	20.87 dBm	-9.13 dB

Date: 19.SEP.2022 19:04:37

Highest Band Edge / 1 RB

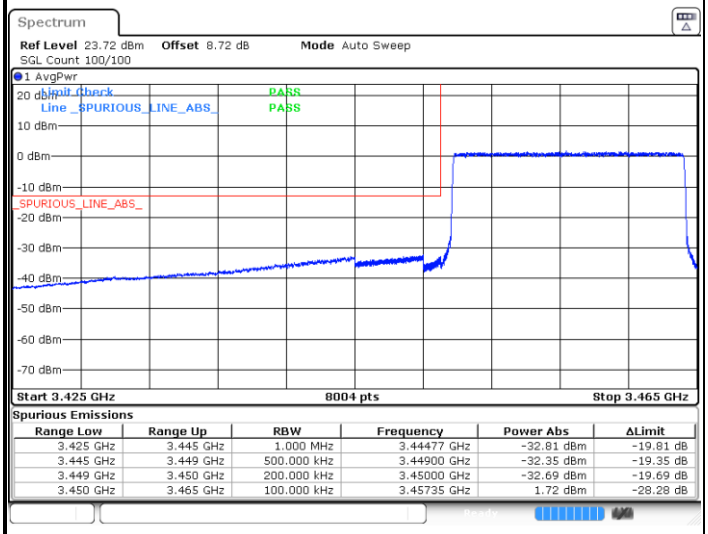


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54918 GHz	21.53 dBm	-8.47 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55003 GHz	-21.77 dBm	-8.77 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-37.94 dBm	-24.94 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55725 GHz	-41.40 dBm	-28.40 dB

Date: 19.SEP.2022 19:24:13

Lowest Band Edge / Full RB

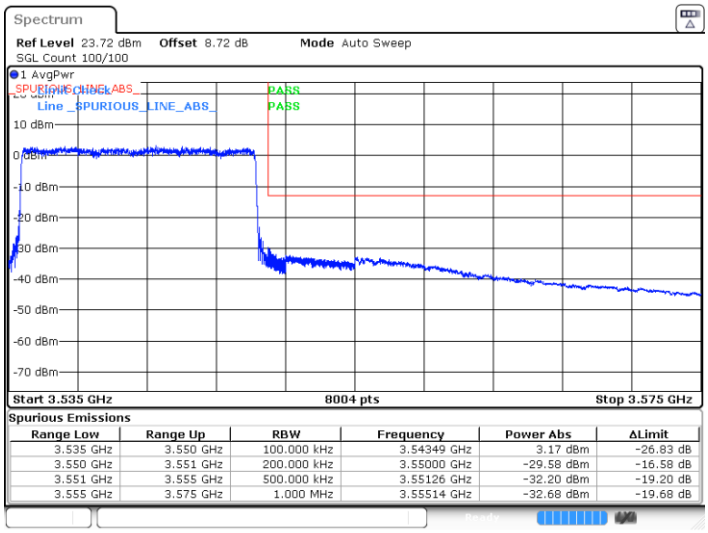


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44477 GHz	-32.81 dBm	-19.81 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44900 GHz	-32.35 dBm	-19.35 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-32.69 dBm	-19.69 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45735 GHz	1.72 dBm	-28.28 dB

Date: 19.SEP.2022 19:07:42

Highest Band Edge / Full RB



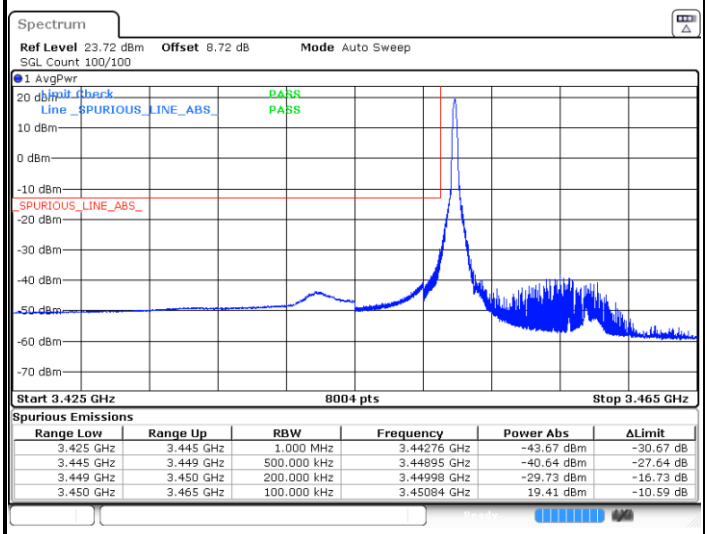
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54349 GHz	3.17 dBm	-26.83 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-29.58 dBm	-16.58 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55126 GHz	-32.20 dBm	-19.20 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55514 GHz	-32.68 dBm	-19.68 dB

Date: 19.SEP.2022 19:27:15

LTE Band 42 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

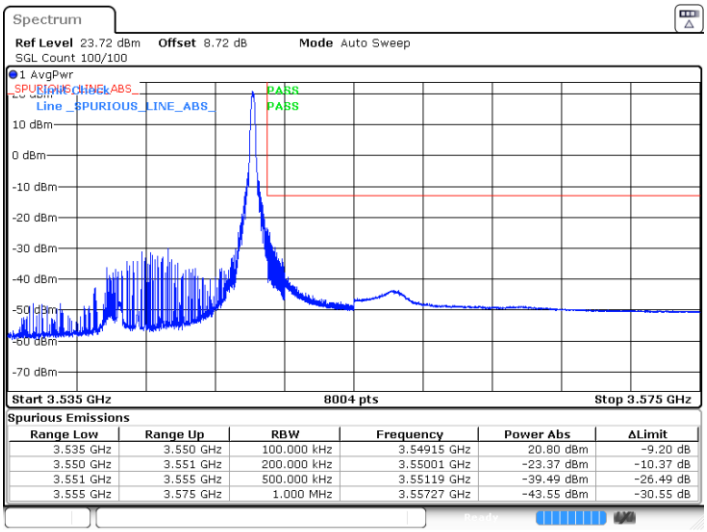


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44276 GHz	-43.67 dBm	-30.67 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44895 GHz	-40.64 dBm	-27.64 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44998 GHz	-29.73 dBm	-16.73 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45084 GHz	19.41 dBm	-10.59 dB

Date: 19.SEP.2022 19:05:22

Highest Band Edge / 1 RB

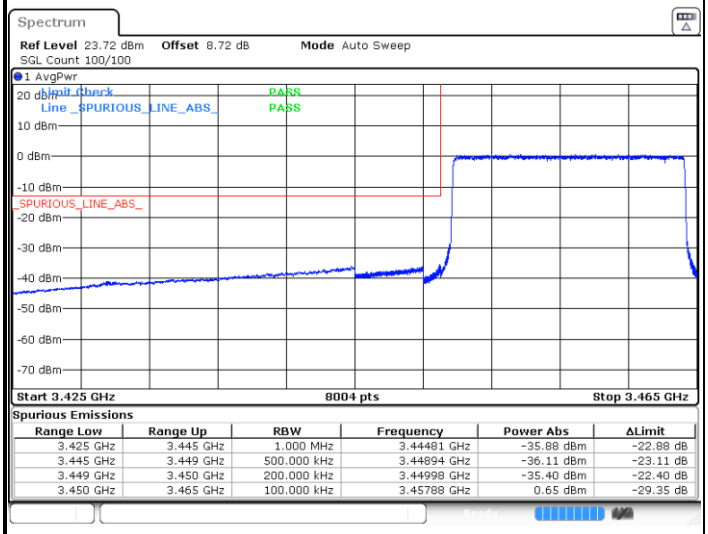


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54915 GHz	20.80 dBm	-9.20 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55001 GHz	-23.37 dBm	-10.37 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55119 GHz	-39.49 dBm	-26.49 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55727 GHz	-43.55 dBm	-30.55 dB

Date: 19.SEP.2022 19:24:58

Lowest Band Edge / Full RB

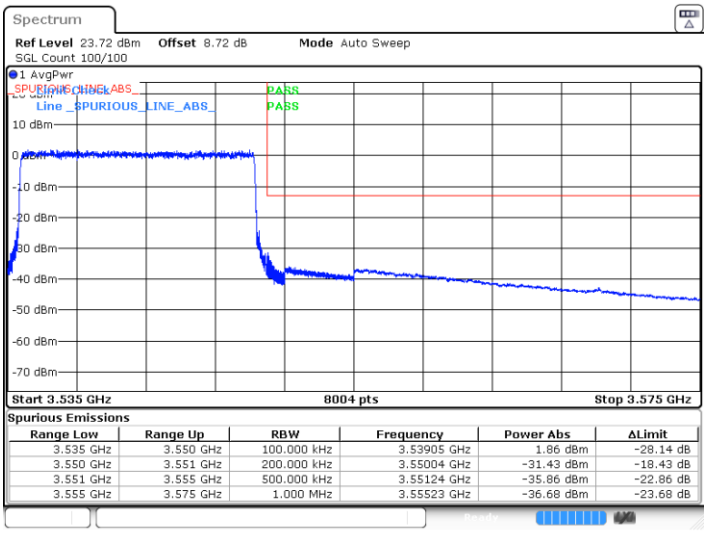


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44481 GHz	-35.88 dBm	-22.88 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44894 GHz	-36.11 dBm	-23.11 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44998 GHz	-35.40 dBm	-22.40 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45788 GHz	0.65 dBm	-29.35 dB

Date: 19.SEP.2022 19:08:28

Highest Band Edge / Full RB



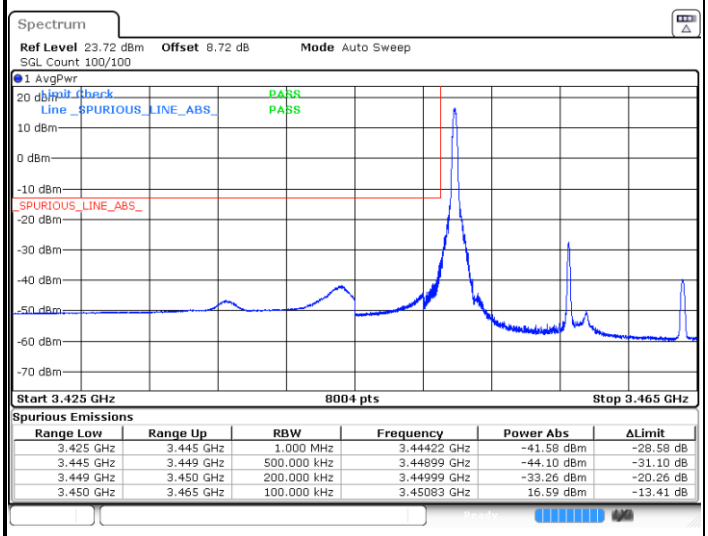
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.53905 GHz	1.86 dBm	-28.14 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55004 GHz	-31.43 dBm	-18.43 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55124 GHz	-35.86 dBm	-22.86 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55523 GHz	-36.68 dBm	-23.68 dB

Date: 19.SEP.2022 19:28:01

LTE Band 42 / 15MHz / 256QAM

Lowest Band Edge / 1RB

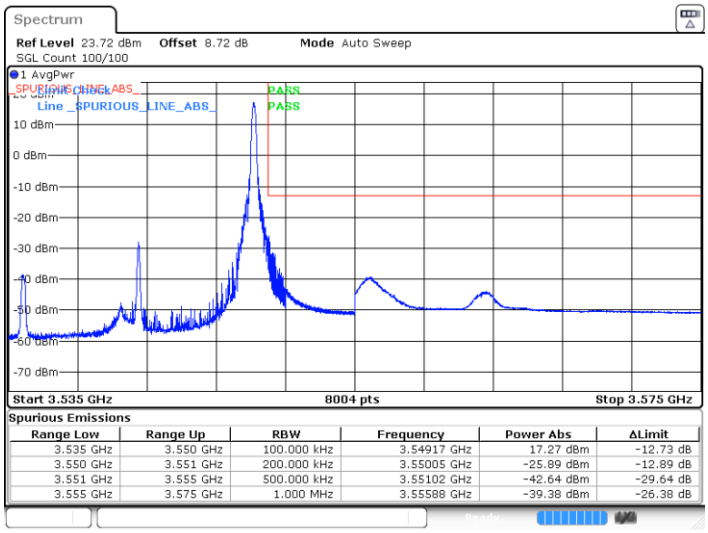


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44422 GHz	-41.58 dBm	-28.58 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44899 GHz	-44.10 dBm	-31.10 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-33.26 dBm	-20.26 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45083 GHz	16.59 dBm	-13.41 dB

Date: 19.SEP.2022 19:06:08

Highest Band Edge / 1 RB

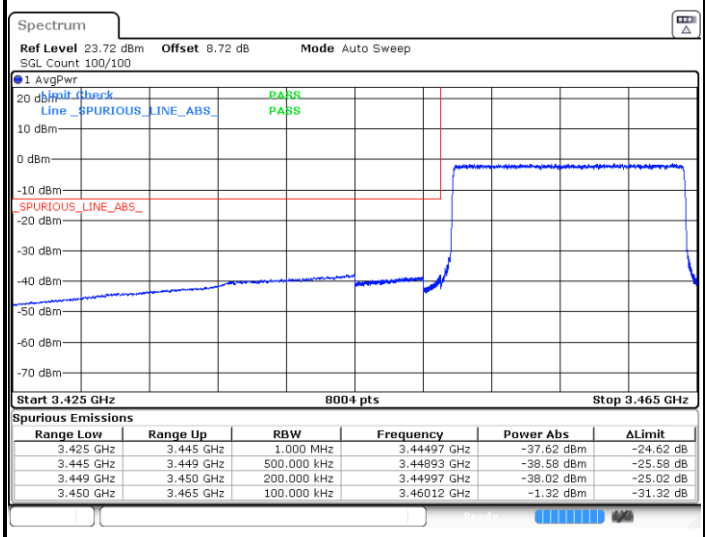


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54917 GHz	17.27 dBm	-12.73 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55005 GHz	-25.89 dBm	-12.89 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-42.64 dBm	-29.64 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55588 GHz	-39.38 dBm	-26.38 dB

Date: 19.SEP.2022 19:25:44

Lowest Band Edge / Full RB

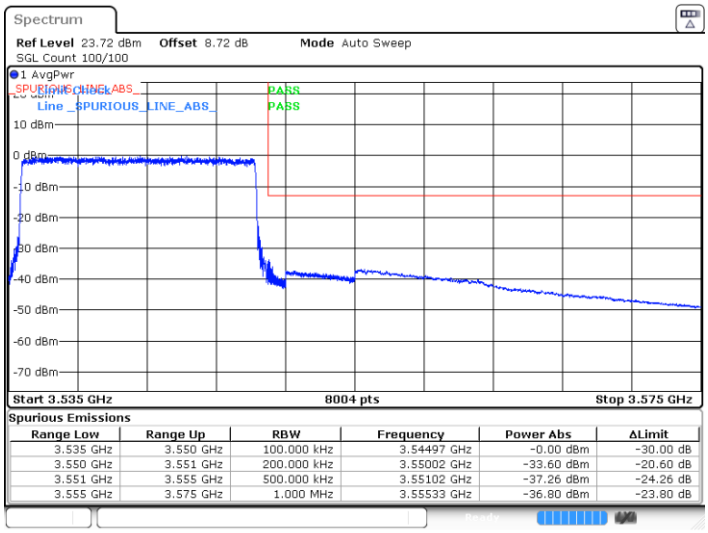


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44497 GHz	-37.62 dBm	-24.62 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44893 GHz	-38.58 dBm	-25.58 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44997 GHz	-38.02 dBm	-25.02 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.46012 GHz	-1.32 dBm	-31.32 dB

Date: 19.SEP.2022 19:09:13

Highest Band Edge / Full RB



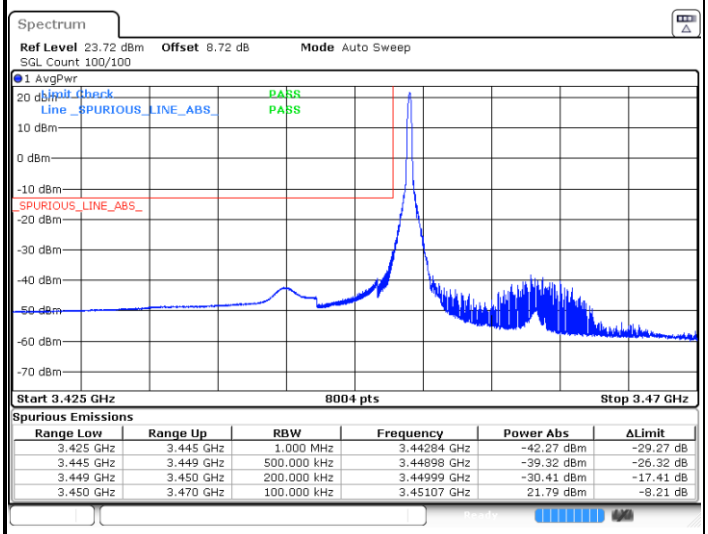
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54497 GHz	-0.00 dBm	-30.00 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55002 GHz	-33.60 dBm	-20.60 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-37.26 dBm	-24.26 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55533 GHz	-36.80 dBm	-23.80 dB

Date: 19.SEP.2022 19:28:47

LTE Band 42 / 20MHz / QPSK

Lowest Band Edge / 1 RB

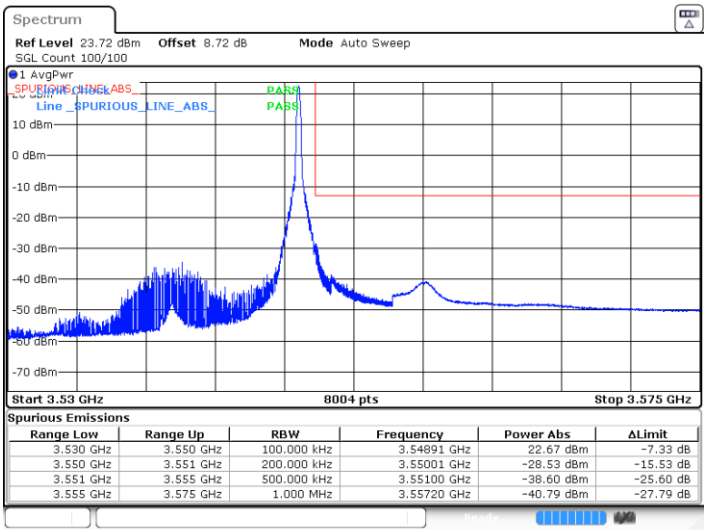


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44284 GHz	-42.27 dBm	-29.27 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44898 GHz	-39.32 dBm	-26.32 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-30.41 dBm	-17.41 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45107 GHz	21.79 dBm	-8.21 dB

Date: 19.SEP.2022 19:30:57

Highest Band Edge / 1 RB

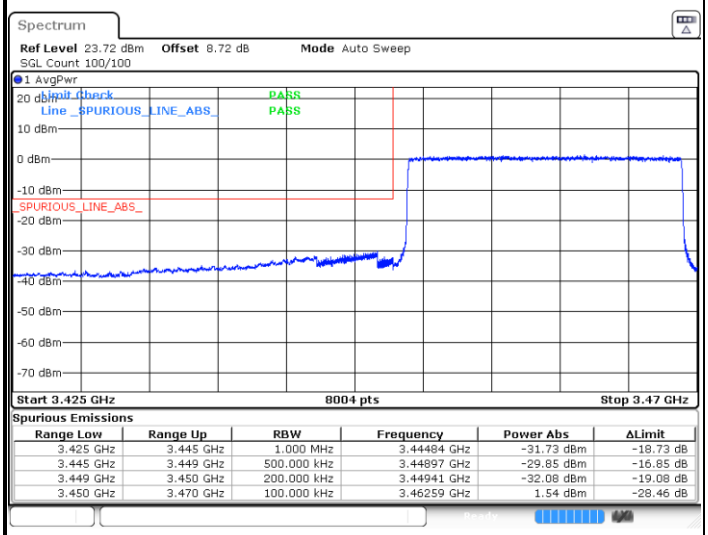


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54891 GHz	22.67 dBm	-7.33 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55001 GHz	-28.53 dBm	-15.53 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55100 GHz	-38.60 dBm	-25.60 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55720 GHz	-40.79 dBm	-27.79 dB

Date: 19.SEP.2022 19:46:24

Lowest Band Edge / Full RB

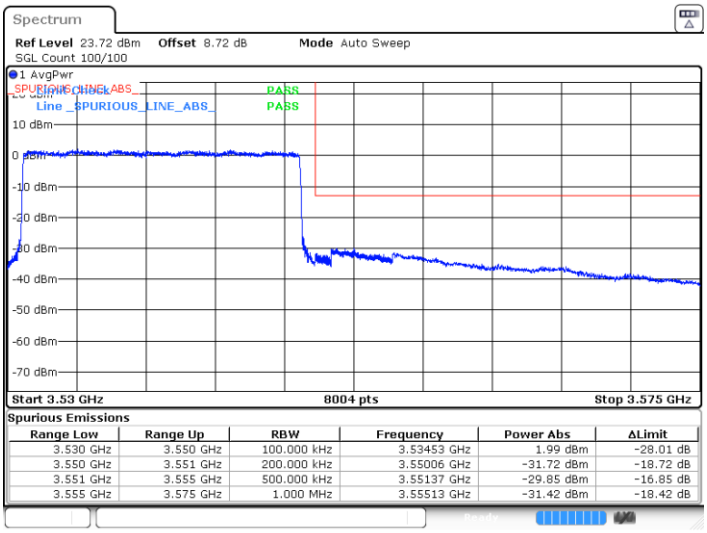


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44484 GHz	-31.73 dBm	-18.73 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44897 GHz	-29.85 dBm	-16.85 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44941 GHz	-32.08 dBm	-19.08 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.46259 GHz	1.54 dBm	-28.46 dB

Date: 19.SEP.2022 19:33:59

Highest Band Edge / Full RB



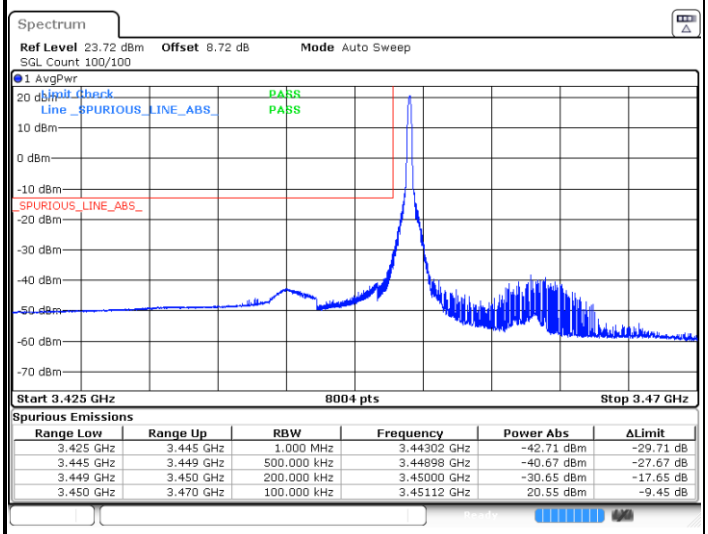
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53453 GHz	1.99 dBm	-28.01 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55006 GHz	-31.72 dBm	-18.72 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55137 GHz	-29.85 dBm	-16.85 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55513 GHz	-31.42 dBm	-18.42 dB

Date: 19.SEP.2022 19:49:26

LTE Band 42 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

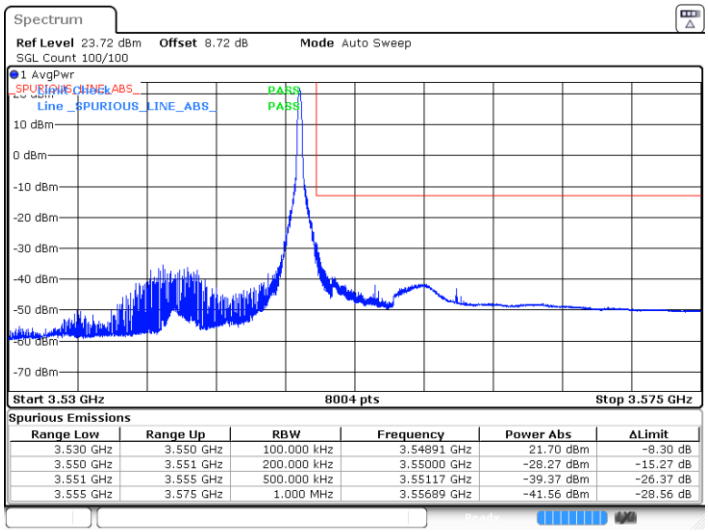


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44302 GHz	-42.71 dBm	-29.71 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44898 GHz	-40.67 dBm	-27.67 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-30.65 dBm	-17.65 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45112 GHz	20.55 dBm	-9.45 dB

Date: 19.SEP.2022 19:31:43

Highest Band Edge / 1 RB

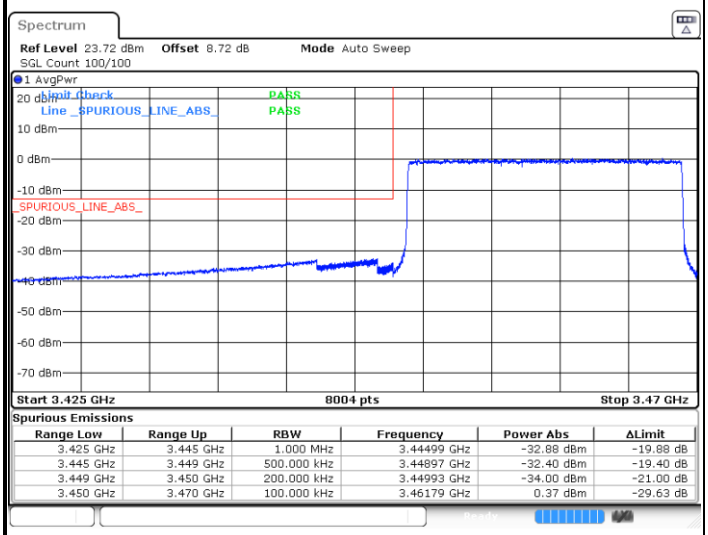


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54891 GHz	21.70 dBm	-8.30 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-28.27 dBm	-15.27 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55117 GHz	-39.37 dBm	-26.37 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55689 GHz	-41.56 dBm	-28.56 dB

Date: 19.SEP.2022 19:47:10

Lowest Band Edge / Full RB

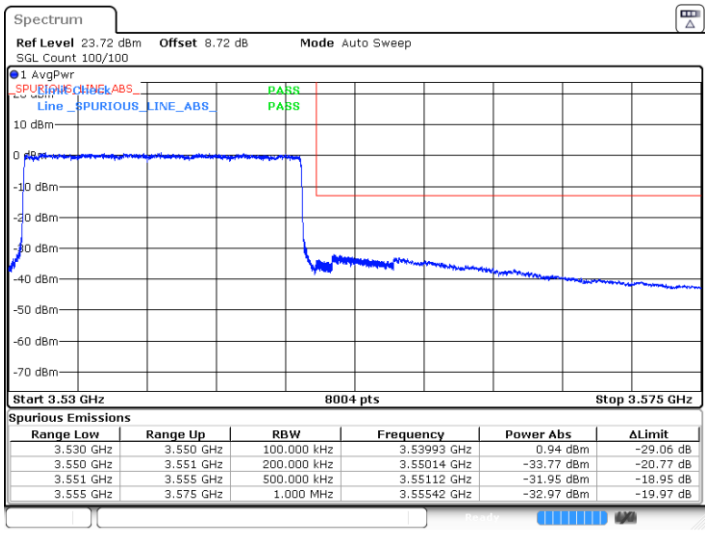


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44499 GHz	-32.88 dBm	-19.88 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44897 GHz	-32.40 dBm	-19.40 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44993 GHz	-34.00 dBm	-21.00 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.46179 GHz	0.37 dBm	-29.63 dB

Date: 19.SEP.2022 19:34:45

Highest Band Edge / Full RB



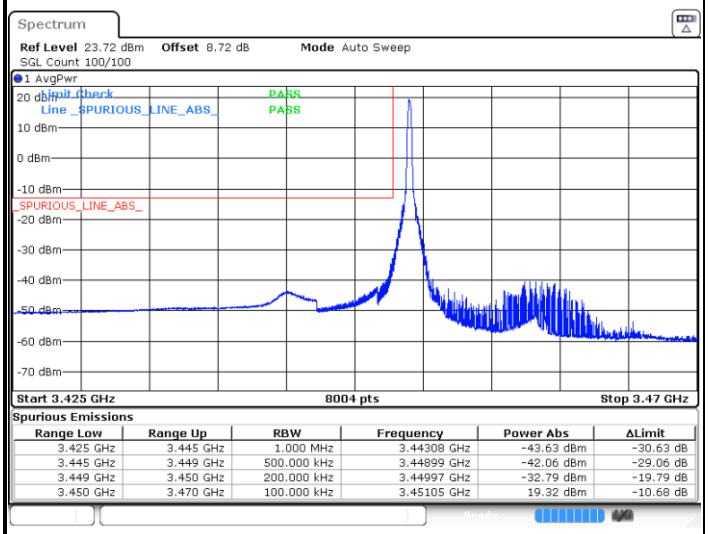
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53993 GHz	0.94 dBm	-29.06 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55014 GHz	-33.77 dBm	-20.77 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55112 GHz	-31.95 dBm	-18.95 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55542 GHz	-32.97 dBm	-19.97 dB

Date: 19.SEP.2022 19:50:12

LTE Band 42 / 20MHz / 64QAM

Lowest Band Edge / 1 RB

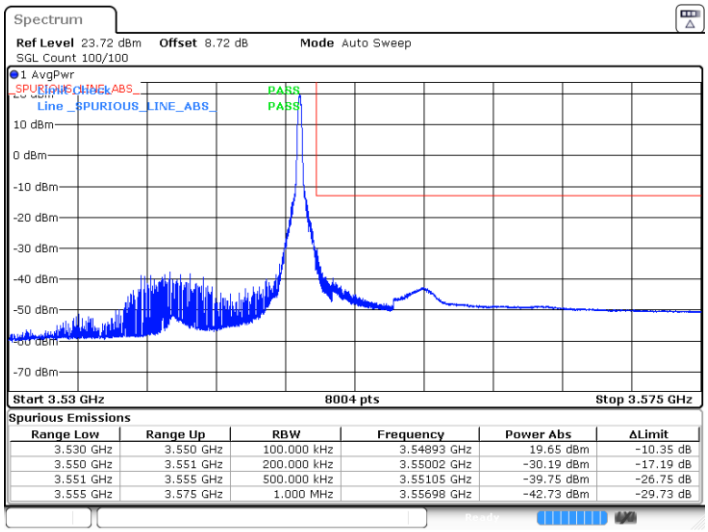


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44308 GHz	-43.63 dBm	-30.63 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44899 GHz	-42.06 dBm	-29.06 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44997 GHz	-32.79 dBm	-19.79 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45105 GHz	19.32 dBm	-10.68 dB

Date: 19.SEP.2022 19:32:28

Highest Band Edge / 1 RB

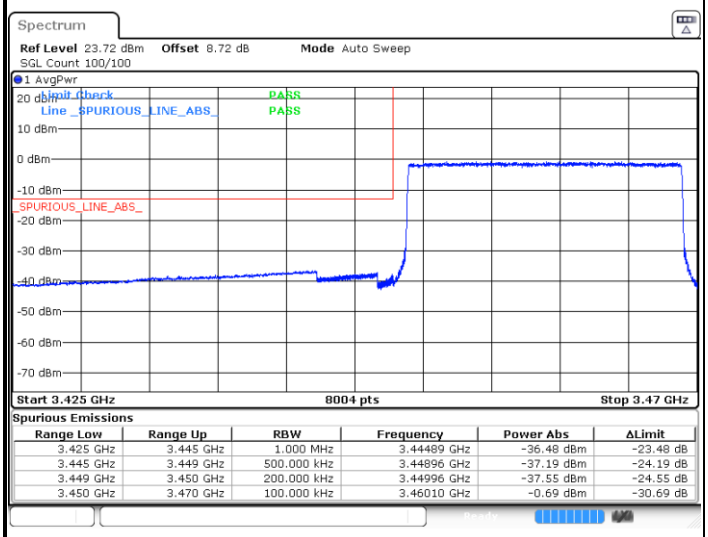


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54893 GHz	19.65 dBm	-10.35 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55002 GHz	-30.19 dBm	-17.19 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55105 GHz	-39.75 dBm	-26.75 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55698 GHz	-42.73 dBm	-29.73 dB

Date: 19.SEP.2022 19:47:55

Lowest Band Edge / Full RB

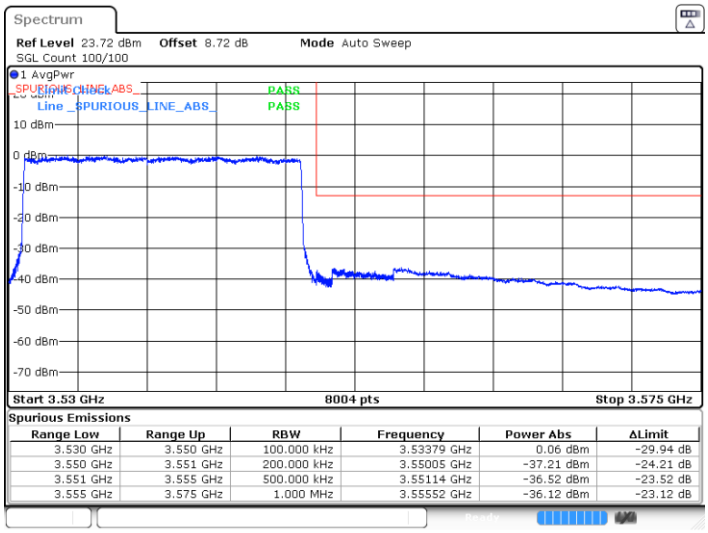


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44489 GHz	-36.48 dBm	-23.48 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44896 GHz	-37.19 dBm	-24.19 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44996 GHz	-37.55 dBm	-24.55 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.46010 GHz	-0.69 dBm	-30.69 dB

Date: 19.SEP.2022 19:35:30

Highest Band Edge / Full RB



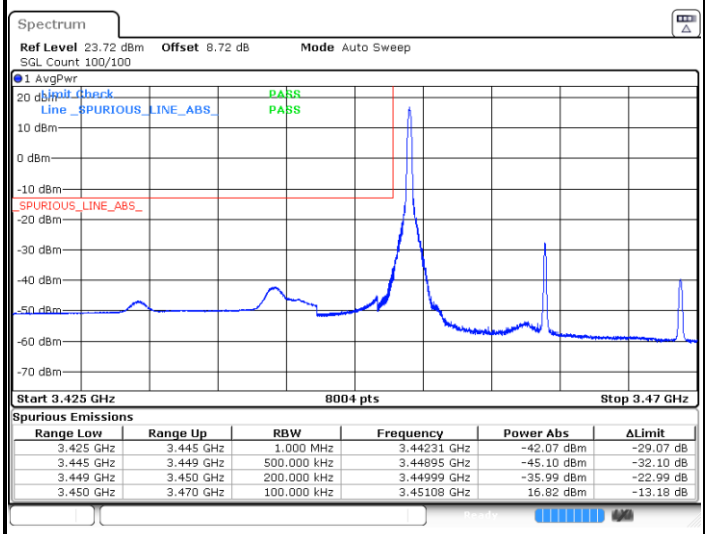
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53379 GHz	0.06 dBm	-29.94 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55005 GHz	-37.21 dBm	-24.21 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55114 GHz	-36.52 dBm	-23.52 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55552 GHz	-36.12 dBm	-23.12 dB

Date: 19.SEP.2022 19:50:58

LTE Band 42 / 20MHz / 256QAM

Lowest Band Edge / 1RB

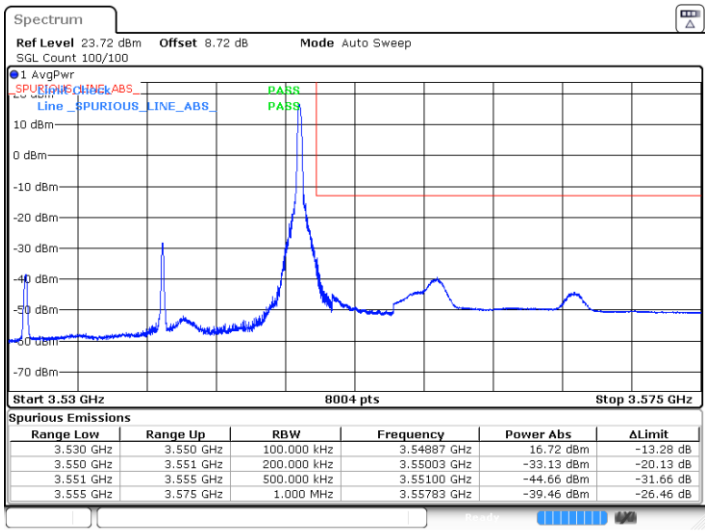


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44231 GHz	-42.07 dBm	-29.07 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44895 GHz	-45.10 dBm	-32.10 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-35.99 dBm	-22.99 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45108 GHz	16.82 dBm	-13.18 dB

Date: 19.SEP.2022 19:33:14

Highest Band Edge / 1 RB

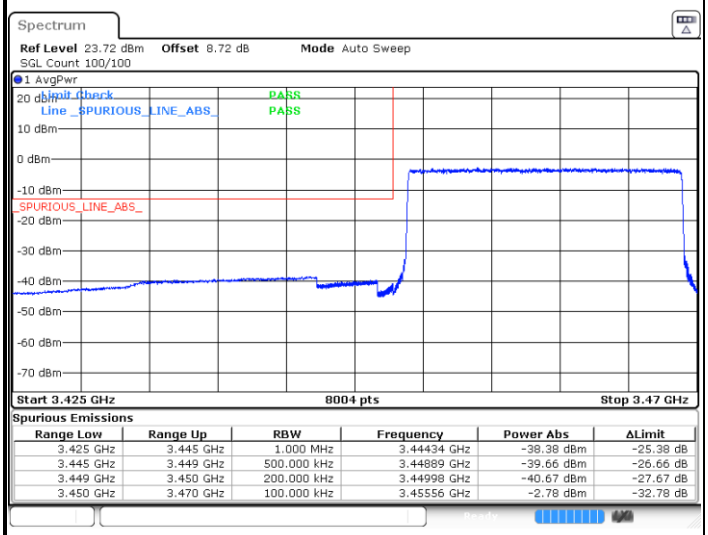


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54887 GHz	16.72 dBm	-13.28 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55003 GHz	-33.13 dBm	-20.13 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55100 GHz	-44.66 dBm	-31.66 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55783 GHz	-39.46 dBm	-26.46 dB

Date: 19.SEP.2022 19:48:41

Lowest Band Edge / Full RB

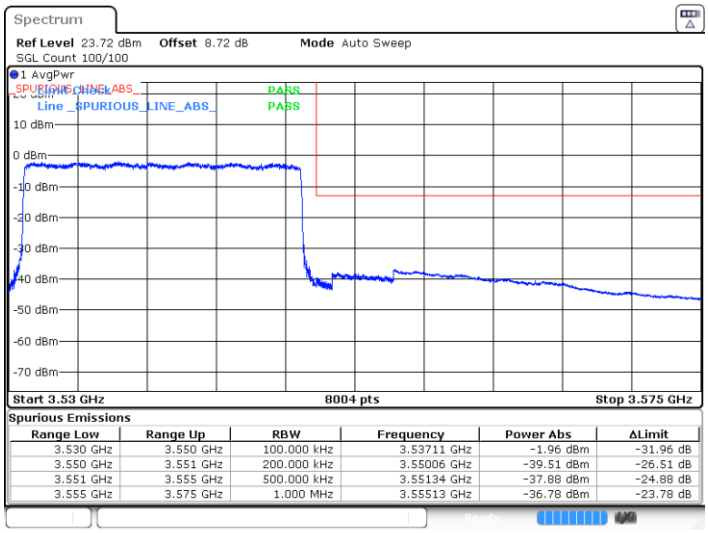


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44434 GHz	-38.38 dBm	-25.38 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44889 GHz	-39.66 dBm	-26.66 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44998 GHz	-40.67 dBm	-27.67 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45556 GHz	-2.78 dBm	-32.78 dB

Date: 19.SEP.2022 19:36:16

Highest Band Edge / Full RB



Spurious Emissions

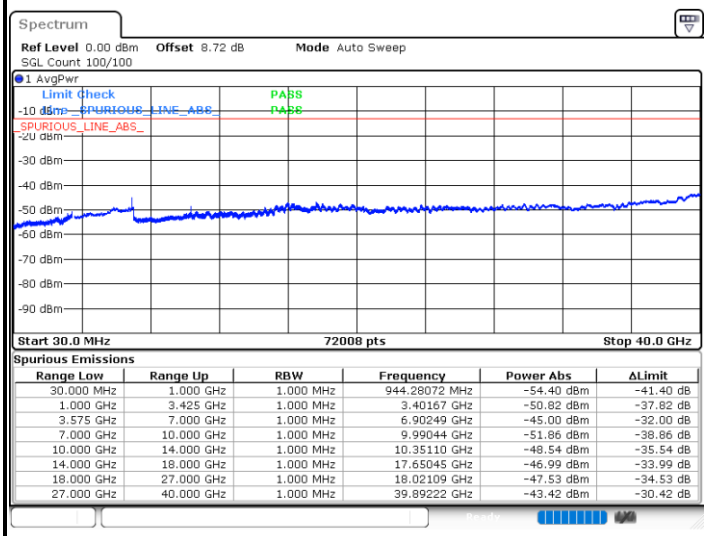
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53711 GHz	-1.96 dBm	-31.96 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55006 GHz	-39.51 dBm	-26.51 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55134 GHz	-37.88 dBm	-24.88 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55513 GHz	-36.78 dBm	-23.78 dB

Date: 19.SEP.2022 19:51:43

Conducted Spurious Emission

LTE Band 42 / 5MHz

Lowest Channel / QPSK

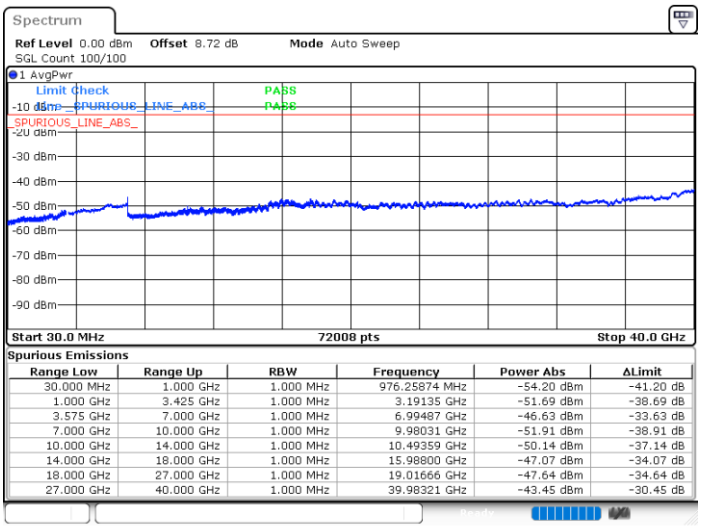


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	944.28072 MHz	-54.40 dBm	-41.40 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.40167 GHz	-50.82 dBm	-37.82 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90249 GHz	-45.00 dBm	-32.00 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.99044 GHz	-51.86 dBm	-38.86 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.35110 GHz	-48.54 dBm	-35.54 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.65045 GHz	-46.99 dBm	-33.99 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.02109 GHz	-47.53 dBm	-34.53 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.89222 GHz	-43.42 dBm	-30.42 dB

Date: 21.SEP.2022 22:02:32

Middle Channel / QPSK

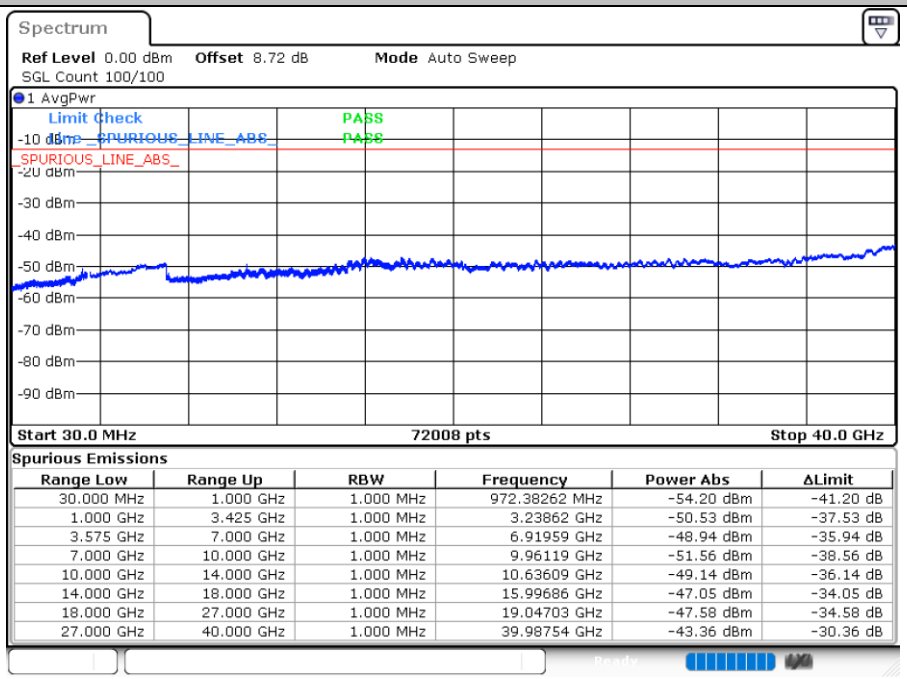


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.25874 MHz	-54.20 dBm	-41.20 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.19135 GHz	-51.69 dBm	-38.69 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.99487 GHz	-46.63 dBm	-33.63 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.98031 GHz	-51.91 dBm	-38.91 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.49359 GHz	-50.14 dBm	-37.14 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.98800 GHz	-47.07 dBm	-34.07 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.01666 GHz	-47.64 dBm	-34.64 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.98321 GHz	-43.45 dBm	-30.45 dB

Date: 21.SEP.2022 22:04:44

Highest Channel / QPSK



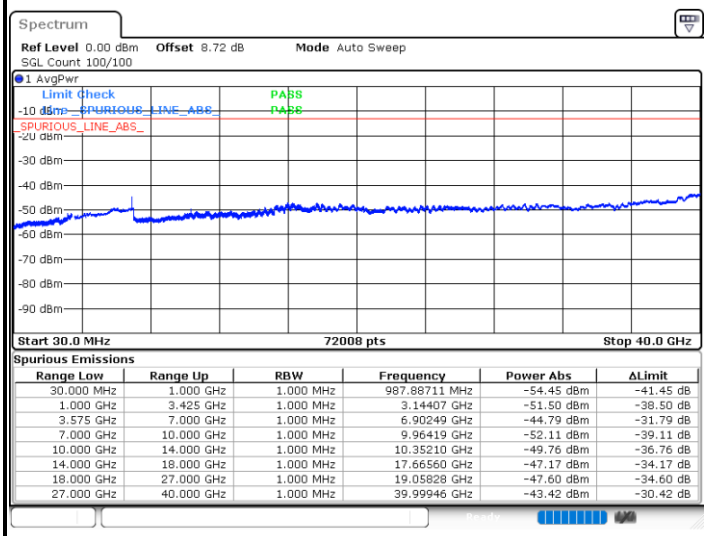
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	972.38262 MHz	-54.20 dBm	-41.20 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.23862 GHz	-50.53 dBm	-37.53 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.91959 GHz	-48.94 dBm	-35.94 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96119 GHz	-51.56 dBm	-38.56 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.63609 GHz	-49.14 dBm	-36.14 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.99686 GHz	-47.05 dBm	-34.05 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.04703 GHz	-47.58 dBm	-34.58 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.98754 GHz	-43.36 dBm	-30.36 dB

Date: 21.SEP.2022 22:06:23

LTE Band 42 / 10MHz

Lowest Channel / QPSK

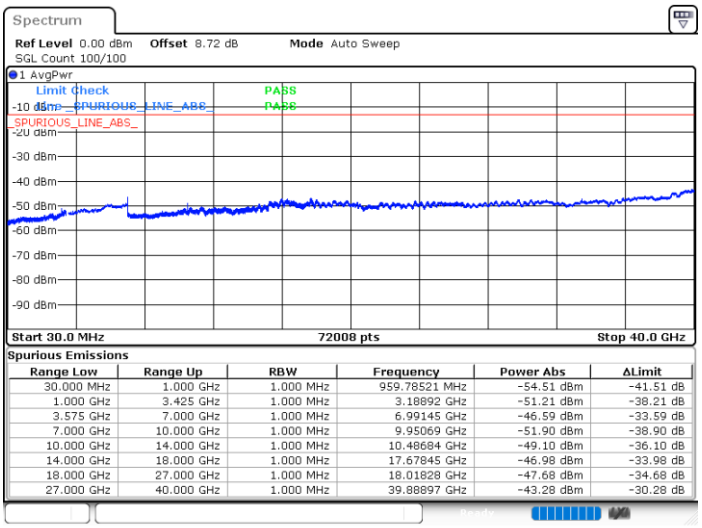


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	987.88711 MHz	-54.45 dBm	-41.45 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.14407 GHz	-51.50 dBm	-38.50 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90249 GHz	-44.79 dBm	-31.79 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96419 GHz	-52.11 dBm	-39.11 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.35210 GHz	-49.76 dBm	-36.76 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.66560 GHz	-47.17 dBm	-34.17 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.05828 GHz	-47.60 dBm	-34.60 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99946 GHz	-43.42 dBm	-30.42 dB

Date: 21.SEP.2022 22:08:22

Middle Channel / QPSK

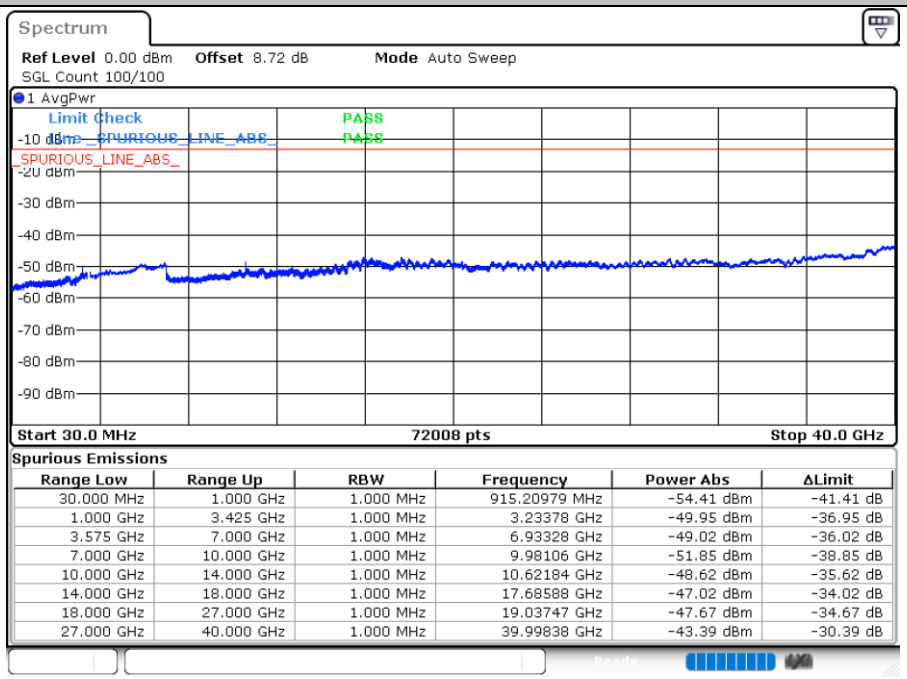


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	959.78521 MHz	-54.51 dBm	-41.51 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.18892 GHz	-51.21 dBm	-38.21 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.99145 GHz	-46.59 dBm	-33.59 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.95069 GHz	-51.90 dBm	-38.90 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.48684 GHz	-49.10 dBm	-36.10 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.67845 GHz	-46.98 dBm	-33.98 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.01828 GHz	-47.68 dBm	-34.68 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.88897 GHz	-43.28 dBm	-30.28 dB

Date: 21.SEP.2022 22:13:08

Highest Channel / QPSK



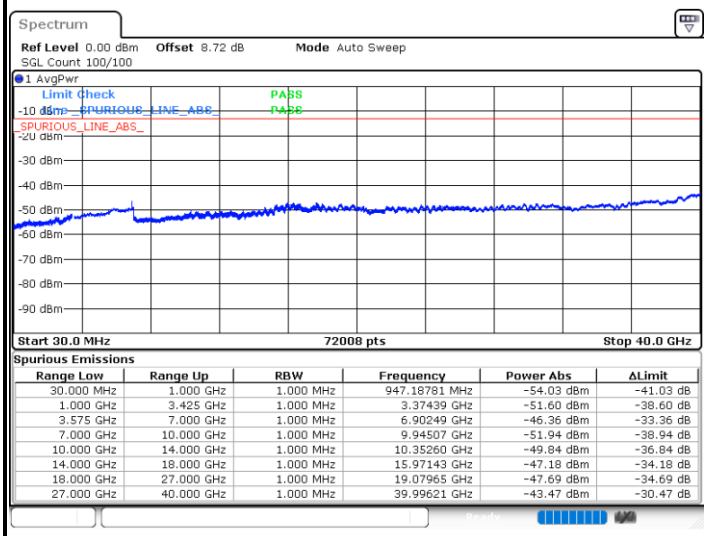
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	915.20979 MHz	-54.41 dBm	-41.41 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.23378 GHz	-49.95 dBm	-36.95 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.93328 GHz	-49.02 dBm	-36.02 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.98106 GHz	-51.85 dBm	-38.85 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.62184 GHz	-48.62 dBm	-35.62 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.68588 GHz	-47.02 dBm	-34.02 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.03747 GHz	-47.67 dBm	-34.67 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99838 GHz	-43.39 dBm	-30.39 dB

Date: 21.SEP.2022 22:15:19

LTE Band 42 / 15MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	947.18781 MHz	-54.03 dBm	-41.03 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.37439 GHz	-51.60 dBm	-38.60 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90249 GHz	-46.36 dBm	-33.36 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.94507 GHz	-51.94 dBm	-38.94 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.35260 GHz	-49.84 dBm	-36.84 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.97143 GHz	-47.18 dBm	-34.18 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.07965 GHz	-47.69 dBm	-34.69 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99621 GHz	-43.47 dBm	-30.47 dB

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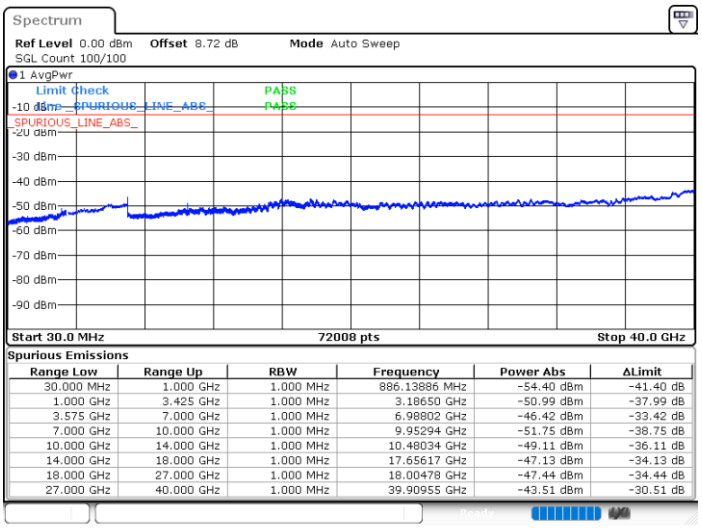
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	886.13886 MHz	-54.40 dBm	-41.40 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.18650 GHz	-50.99 dBm	-37.99 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.98802 GHz	-46.42 dBm	-33.42 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.95294 GHz	-51.75 dBm	-38.75 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.48034 GHz	-49.11 dBm	-36.11 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.65617 GHz	-47.13 dBm	-34.13 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.00478 GHz	-47.44 dBm	-34.44 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.90955 GHz	-43.51 dBm	-30.51 dB

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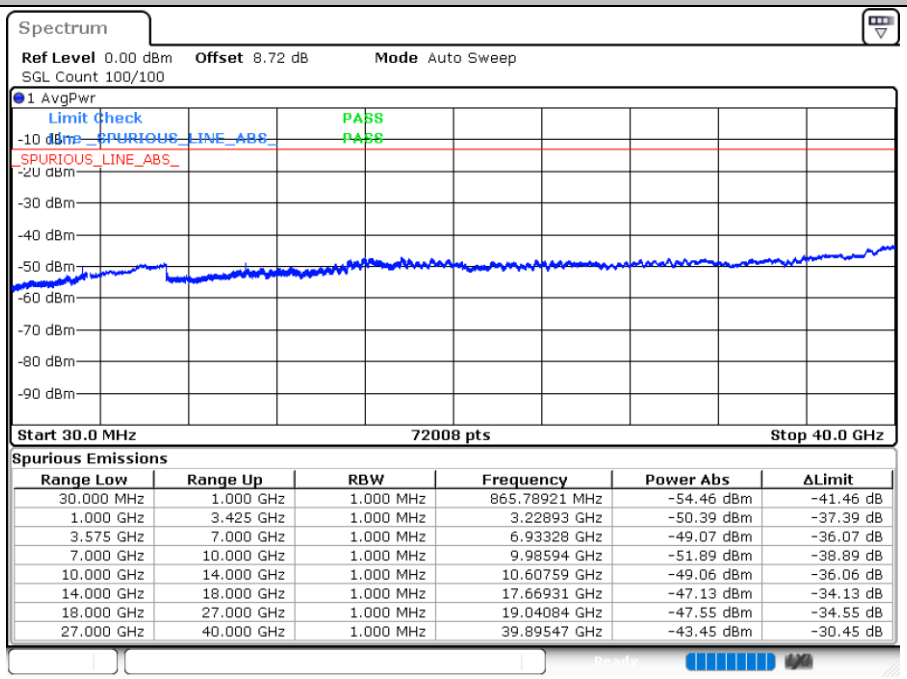
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	865.78921 MHz	-54.46 dBm	-41.46 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.22893 GHz	-50.39 dBm	-37.39 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.93328 GHz	-49.07 dBm	-36.07 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.98594 GHz	-51.89 dBm	-38.89 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.60759 GHz	-49.06 dBm	-36.06 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.66931 GHz	-47.13 dBm	-34.13 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.04084 GHz	-47.55 dBm	-34.55 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.89547 GHz	-43.45 dBm	-30.45 dB

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