FCC RF Test Report

FCC ID	:	UZ7WCMTB
EQUIPMENT	:	Touch Computer
BRAND NAME	:	Zebra
Model Name	:	WCMTB
APPLICANT	:	Zebra Technologies Corporation 1 Zebra Plaza, Holtsville, NY 11742
MANUFACTURER	:	Zebra Technologies Corporation 1 Zebra Plaza, Holtsville, NY 11742
STANDARD	:	47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Feb. 13, 2023 ~ Feb. 23, 2023

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
FG311601D	Rev. 01	Initial issue of report	Apr. 03, 2023

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 42.19 dB at 6911.000 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 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch Computer
Brand Name	Zebra
Model Name	WCMTB
FCC ID	UZ7WCMTB
Sample 1	Scanner(SE4710)
Sample 2	Scanner(SE5500)
HW Version	DV
SW Version	13-09-16.00-TG-U00-STD-ATH-04
MFD	16MAR23
EUT Stage	Identical Prototype

Remark:

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

2. There are two types of EUT: the main difference between them is that the scanner model is different. According to the difference, we choose the Sample 1 with Battery 1 to perform full test.

Specification of Accessory				
Battery 1	**Brand Name**	Zebra	**Model Number**	BT-000473

Supported Unit used in test configuration and system				
Battery 2	**Brand Name**	Zebra	**Model Number**	BT-000473B
Battery 3	**Brand Name**	Zebra	**Model Number**	BT-000473E
AC Adapter	**Brand Name**	Zebra	**Part Number**	PWR-WUA5V12W0US
Earphone 1	**Brand Name**	Zebra	**Part Number**	HDST-35MM-PTT1-01
Earphone 2	**Brand Name**	Zebra	**Part Number**	HDST-USBC-PTT1-01
USB Cable (Type C to Type A)	**Brand Name**	Zebra	**Part Number**	CBL-TC5X-USBC2A-01
Type C-Audio Cable (Type C to 3.5mm)	**Brand Name**	Zebra	**Part Number**	ADP-USBC-35MM1-01
Trigger Handle	**Brand Name**	Zebra	**Part Number**	TRG-TC2L-SNP1-01
Hand Strap	**Brand Name**	Zebra	**Part Number**	SG-TC2L-HSTRP1-01
Soft Holster	**Brand Name**	Zebra	**Part Number**	SG-TC2L-HLSTR1-01

1.2 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	Antenna 5 : 22.81 dBm
Antenna Gain	Antenna 5 : -1.07 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

1.3 Modification of EUT

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

1.4 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)**
5	3452.5 ~ 3547.5	0.1449	4M48G7D	0.1140	4M50W7D
10	3455 ~ 3545	0.1479	8M99G7D	0.1161	9M05W7D
15	3457.5 ~ 3542.5	0.1472	13M5G7D	0.1161	13M5W7D
20	3460 ~ 3540	0.1493	17M9G7D	0.1172	17M9W7D

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

1.5 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.**
	03CH04-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24al

1.7 Applied Standards

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

- 47 CFR Part 2, Part 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

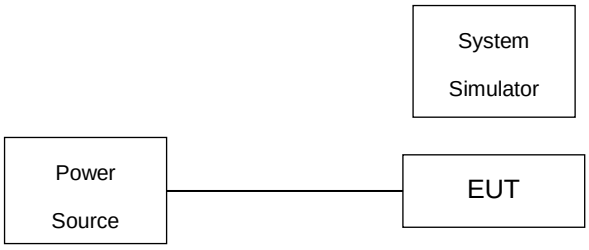
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Z-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, 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	5M, 10M, 15M, 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			L, M, H

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.

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.	System Simulator	Anritsu	MT8820/8821	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPD-2303S	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 6.5dB.

Example :

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

= 6.5(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

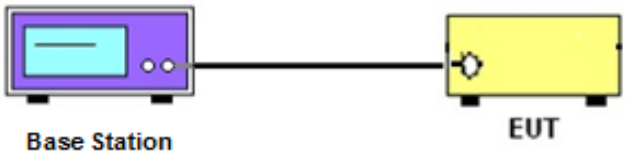
3 Conducted Test Items

3.1 Measuring Instruments

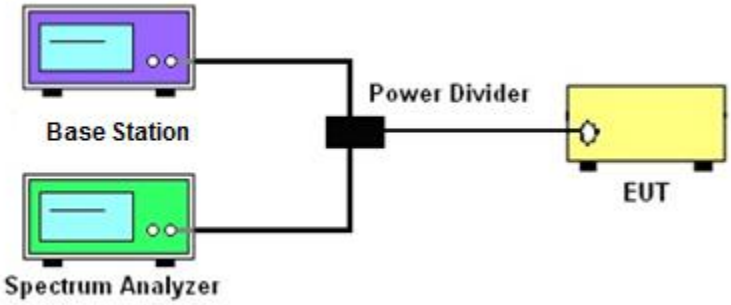
See list of measuring instruments of this test report.

3.2 Test Setup

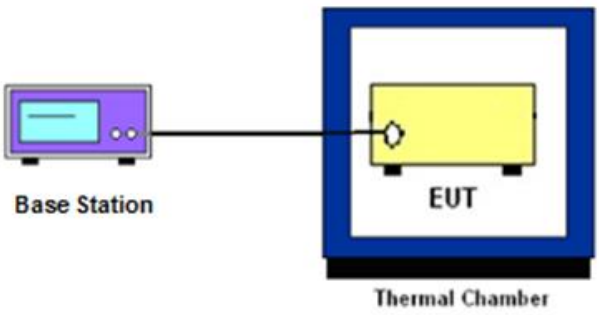
3.2.1 Conducted Output Power



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 9 kHz up to a frequency including its 10^{th} 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.

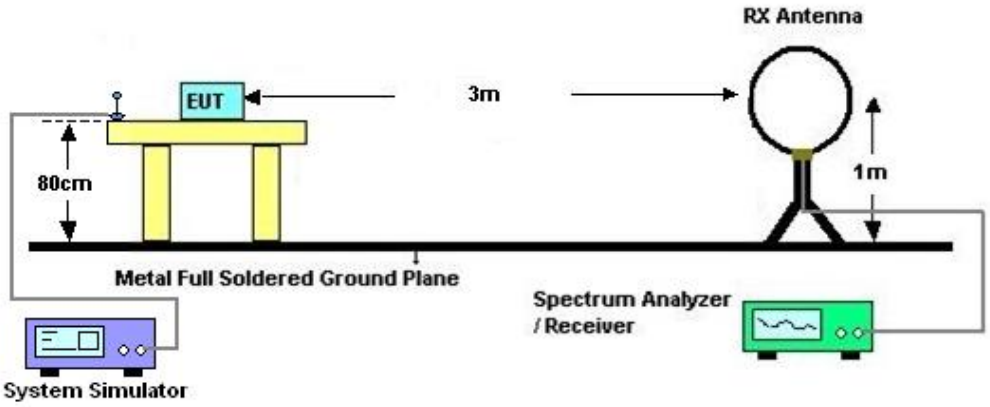
4 Radiated Test Items

4.1 Measuring Instruments

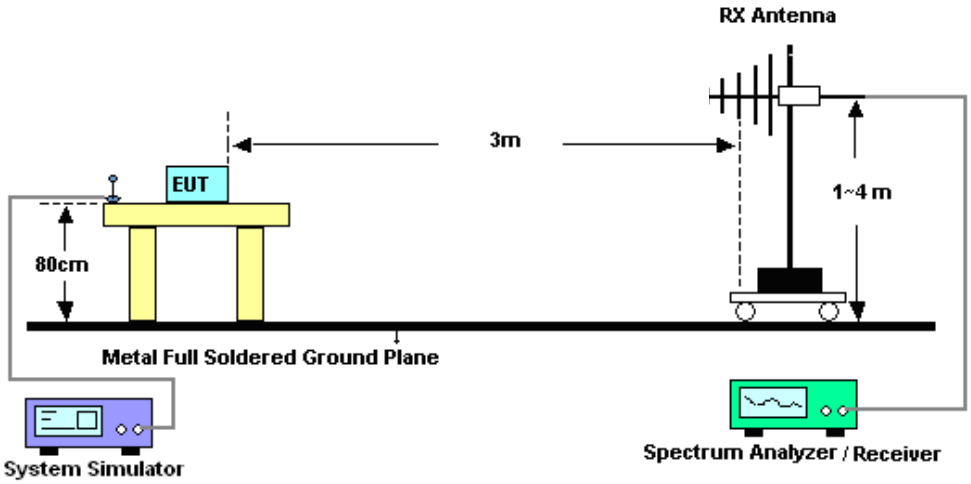
See list of measuring instruments of this test report.

4.2 Test Setup

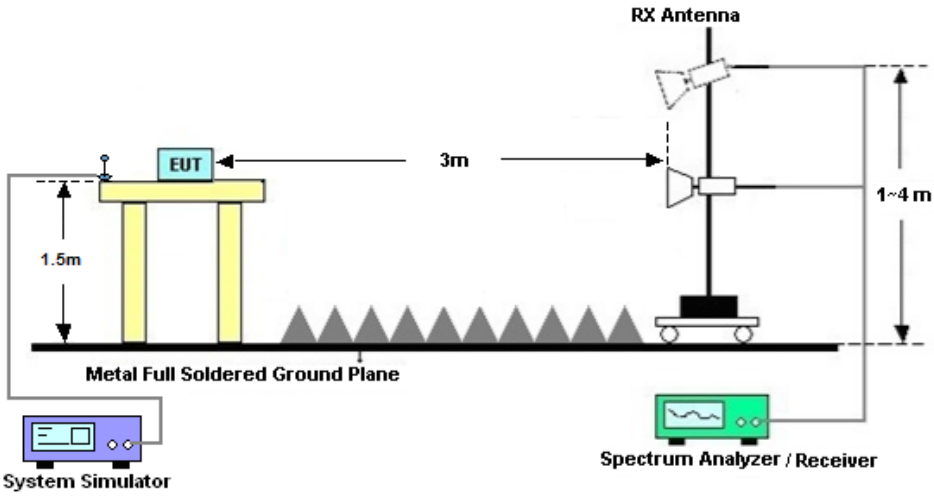
4.2.1 For radiated test below 30MHz



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. 12, 2022	Feb. 23, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Feb. 23, 2023	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Feb. 23, 2023	Jul. 14, 2023	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	Feb. 13, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Feb. 13, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 24, 2022	Feb. 13, 2023	May 23, 2023	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Jan. 04, 2023	Feb. 13, 2023	Jan. 03, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Feb. 13, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 04, 2023	Feb. 13, 2023	Jan. 03, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 12, 2022	Feb. 13, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 12, 2022	Feb. 13, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2023	Feb. 13, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Feb. 13, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Feb. 13, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Feb. 13, 2023	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	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.1 %

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

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23℃
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and EIRP

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540	L	M	H
20	QPSK	1	0	22.69	22.81	22.62	0.1452	0.1493	0.1429
20	QPSK	1	99	22.58	22.68	22.54	0.1416	0.1449	0.1403
20	QPSK	100	0	21.71	21.84	21.78	0.1159	0.1194	0.1178
20	16QAM	1	0	21.66	21.76	21.63	0.1146	0.1172	0.1138
20	64QAM	1	0	20.58	20.65	20.55	0.0893	0.0908	0.0887
20	256QAM	1	0	17.90	17.94	17.80	0.0482	0.0486	0.0471
Channel				42165	42590	43015	EIRP(W)		
Frequency (MHz)				3457.5	3500	3542.5	L	M	H
15	QPSK	1	0	22.55	22.75	22.51	0.1406	0.1472	0.1393
15	16QAM	1	0	21.57	21.72	21.50	0.1122	0.1161	0.1104
Channel				42140	42590	43040	EIRP(W)		
Frequency (MHz)				3455	3500	3545	L	M	H
10	QPSK	1	0	22.56	22.77	22.47	0.1409	0.1479	0.1380
10	16QAM	1	0	21.60	21.72	21.53	0.1130	0.1161	0.1112
Channel				42115	42590	43065	EIRP(W)		
Frequency (MHz)				3452.5	3500	3547.5	L	M	H
5	QPSK	1	0	22.65	22.68	22.50	0.1439	0.1449	0.1390
5	16QAM	1	0	21.55	21.64	21.57	0.1117	0.1140	0.1122

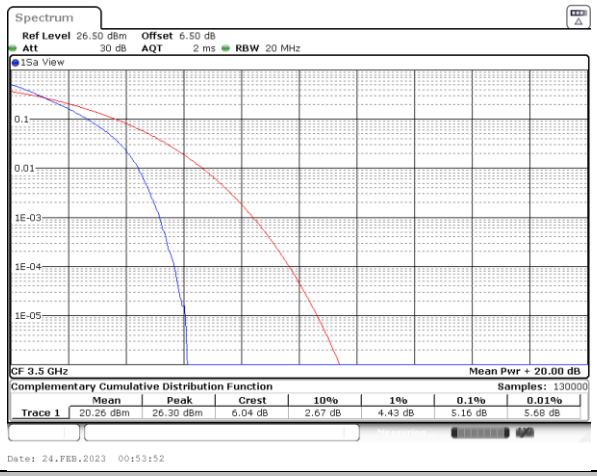
LTE Band 42

Peak-to-Average Ratio

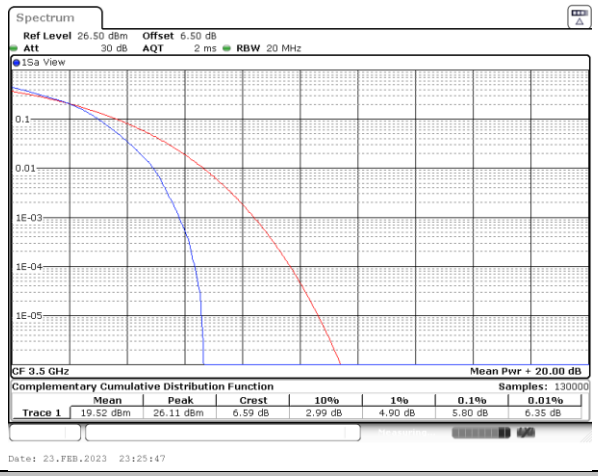
Mode	LTE Band 42 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB				Result
Middle CH	5.16	5.80	6.90	7.83	PASS

LTE Band 42 / 20MHz / Full RB / Middle Channel

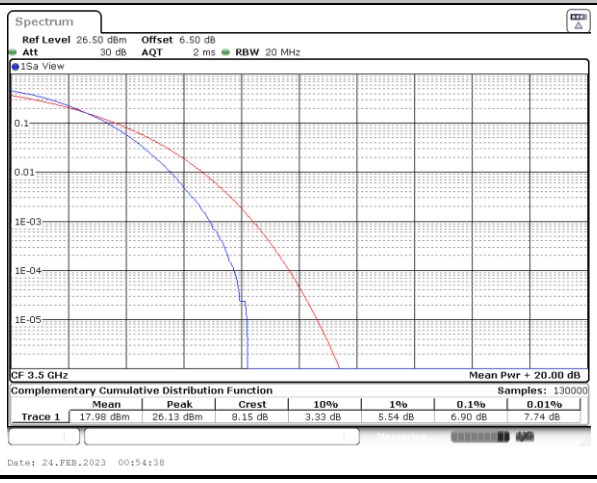
QPSK



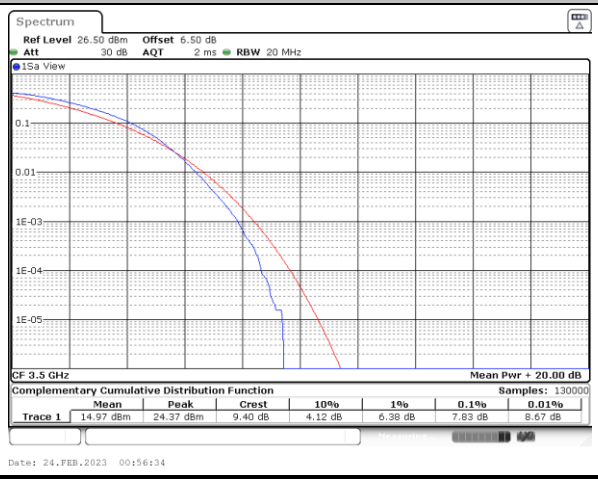
16QAM



64QAM



256QAM

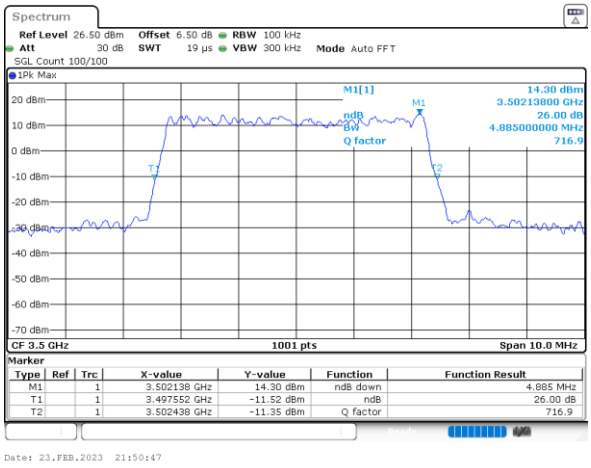


26dB Bandwidth

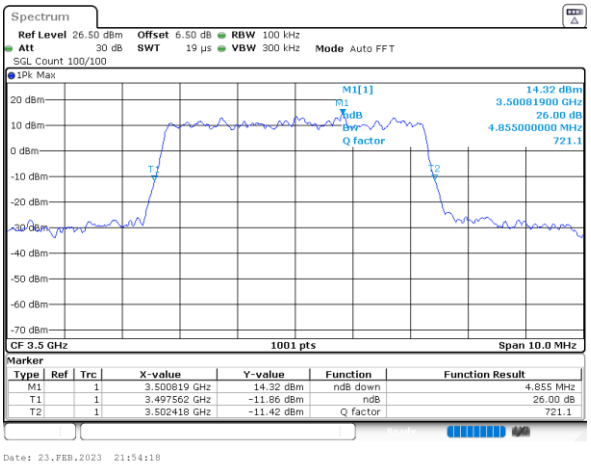
Mode	LTE Band 42 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.89	4.86	9.85	9.81	14.60	14.27	19.06	19.18

LTE Band 42 / Middle channel / Full RB/5M

QPSK

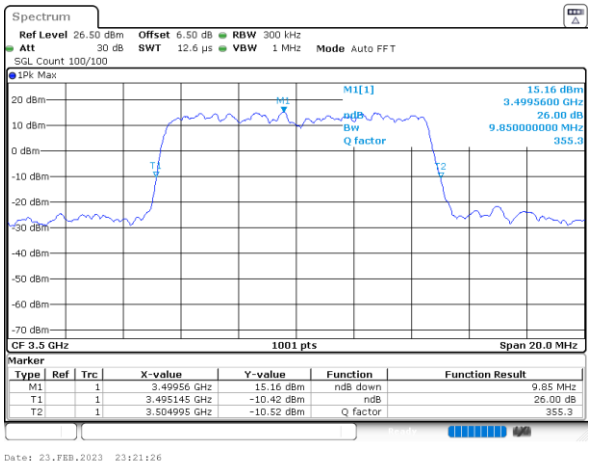


16QAM

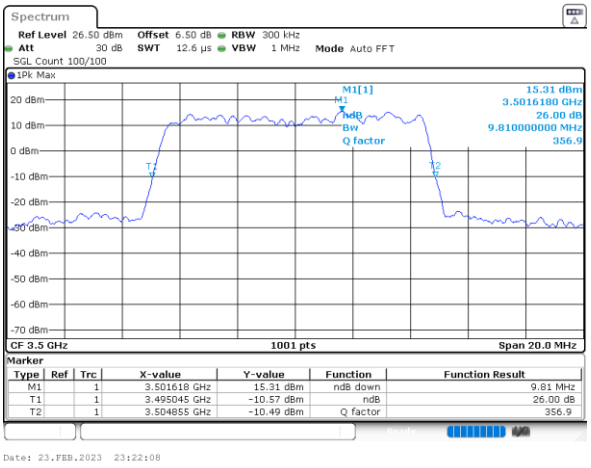


LTE Band 42 / Middle channel / Full RB/10M

QPSK

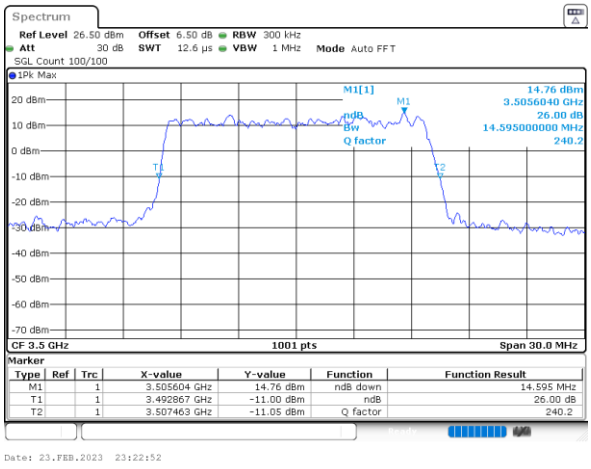


16QAM

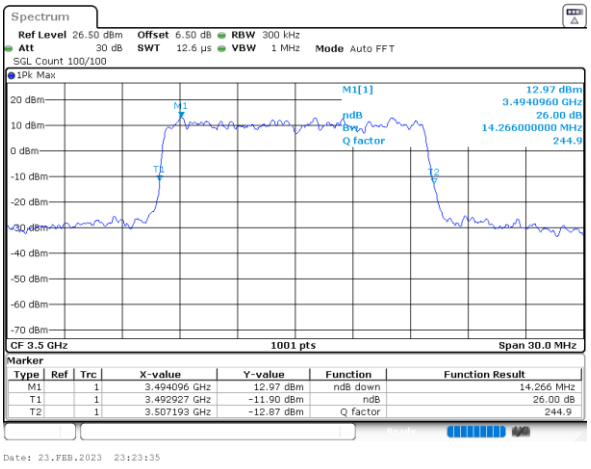


LTE Band 42 / Middle channel / Full RB/15M

QPSK

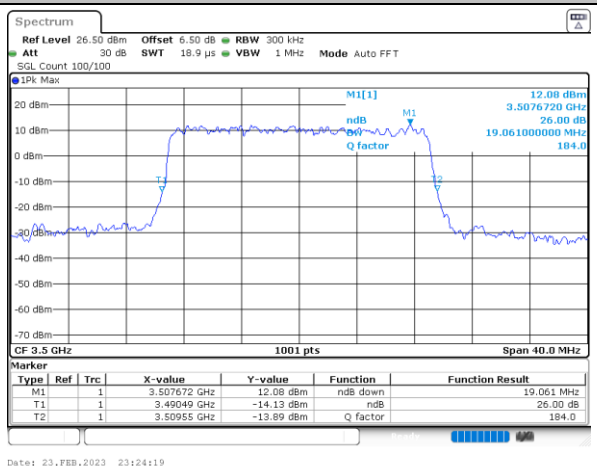


16QAM

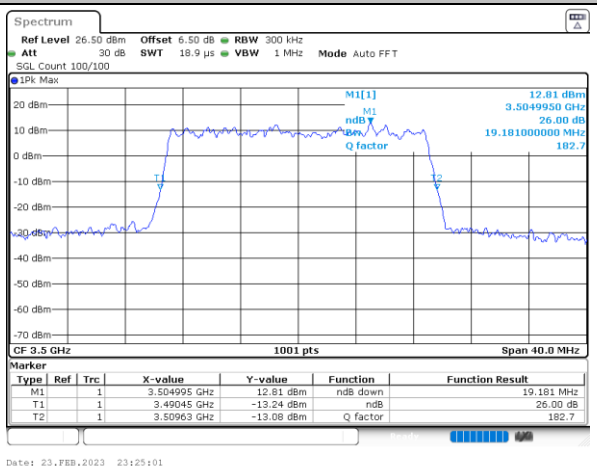


LTE Band 42 / Middle channel / Full RB/20M

QPSK



16QAM

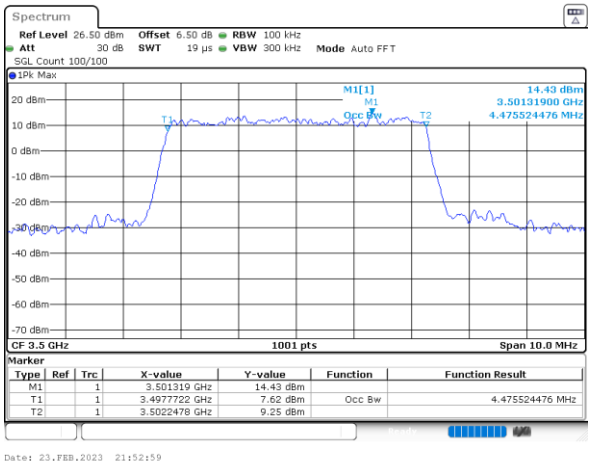


Occupied Bandwidth

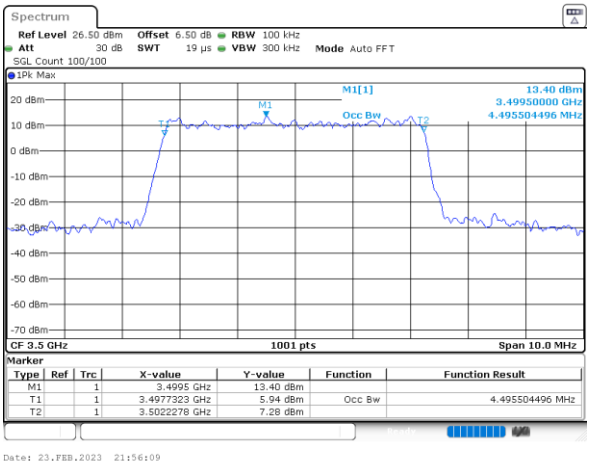
Mode	LTE Band 42 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.48	4.50	8.99	9.05	13.52	13.46	17.94	17.86

LTE Band 42 / Middle channel / Full RB/5M

QPSK

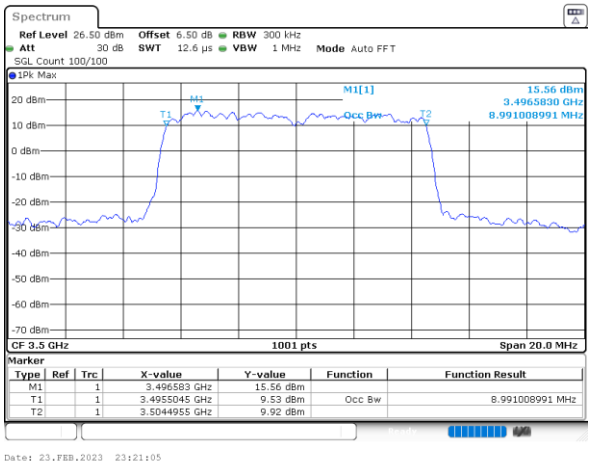


16QAM

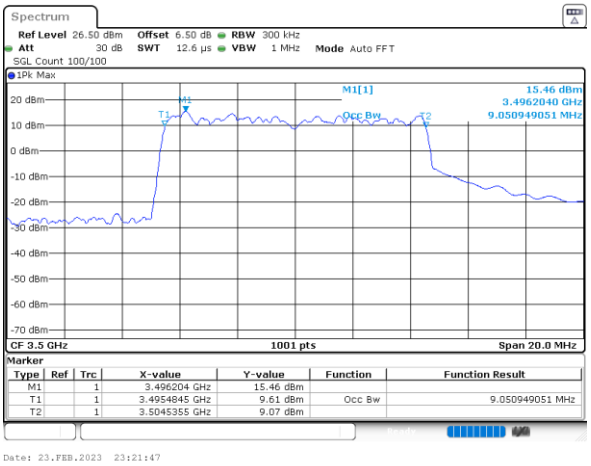


LTE Band 42 / Middle channel / Full RB/10M

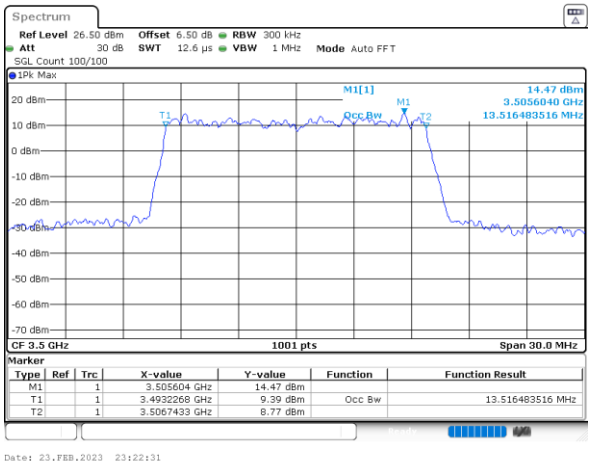
QPSK

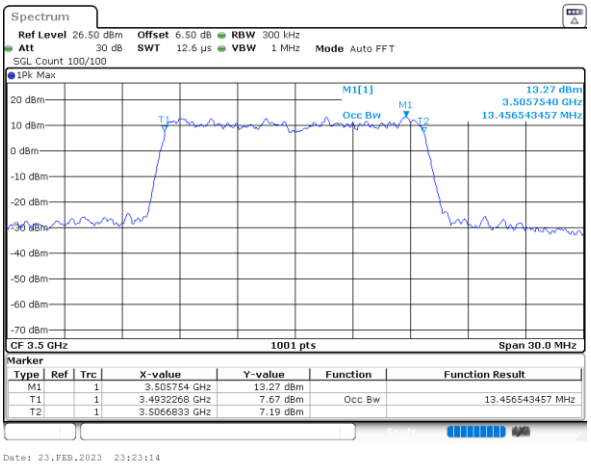


16QAM

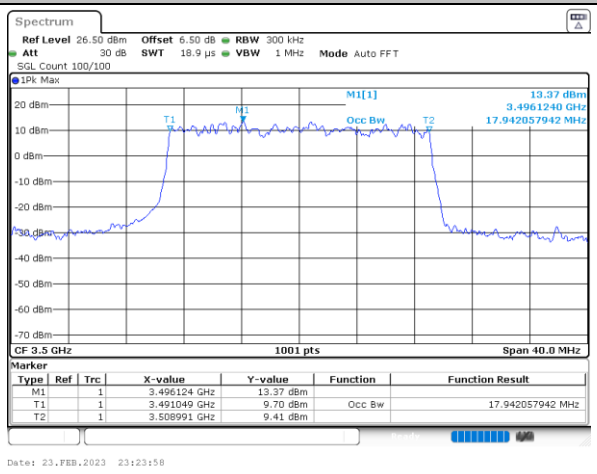


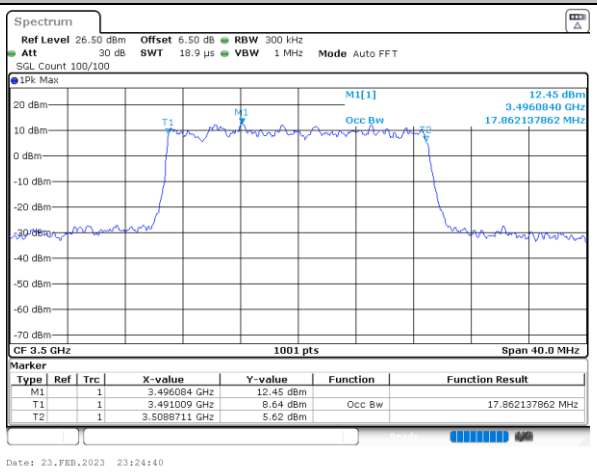
LTE Band 42 / Middle channel / Full RB/15M	
QPSK	16QAM





LTE Band 42 / Middle channel / Full RB/20M	
QPSK	16QAM



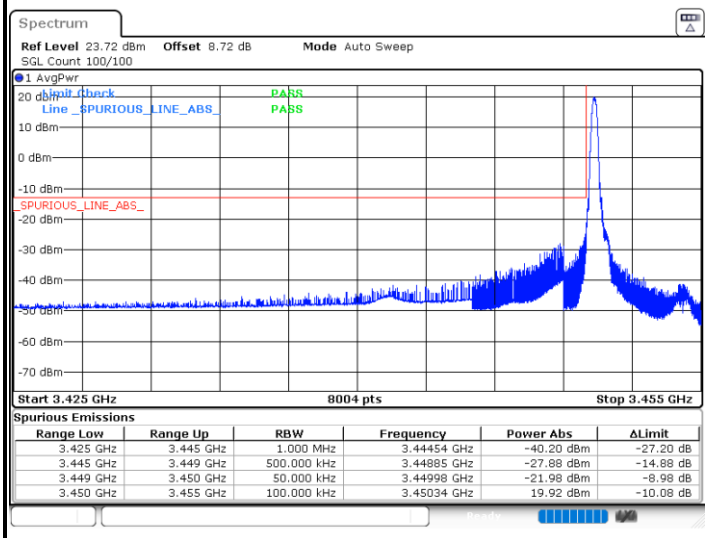


Conducted Band Edge

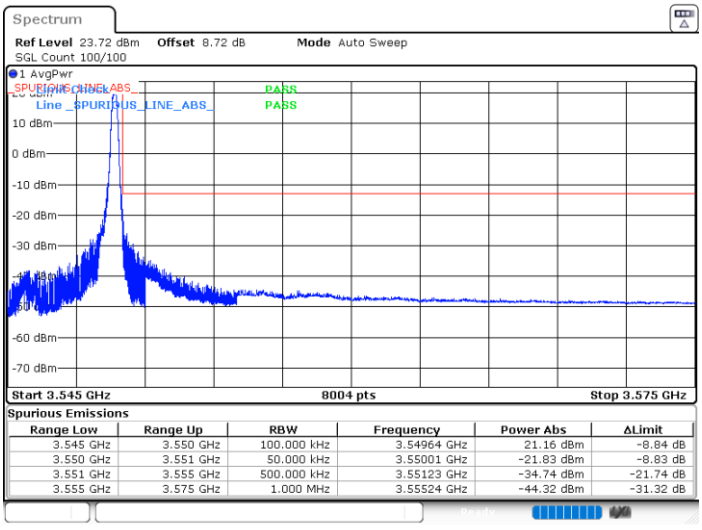
LTE Band 42 / 5MHz

QPSK

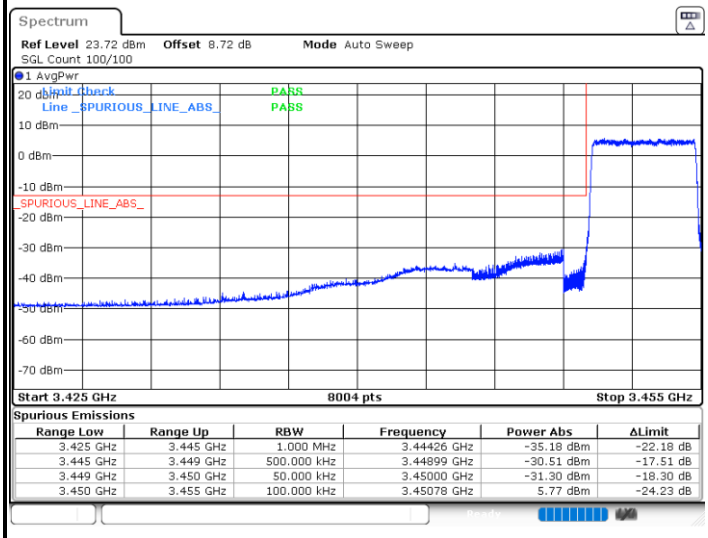
Lowest Channel / 1RB0



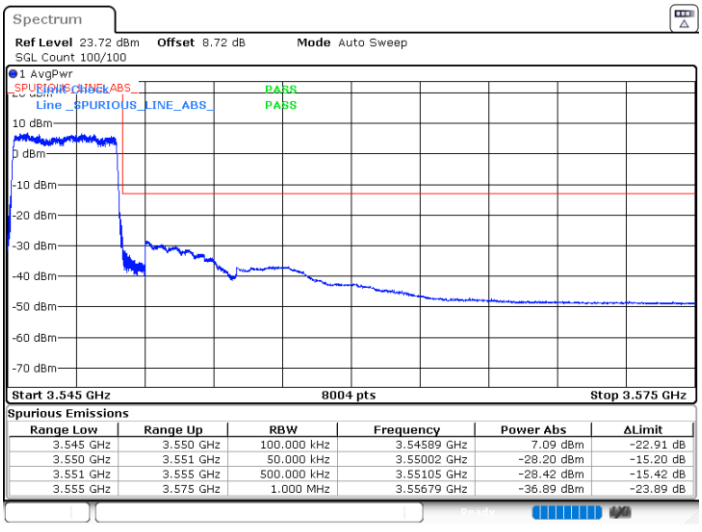
Highest Channel / 1RBmax



Lowest Channel / FullRB



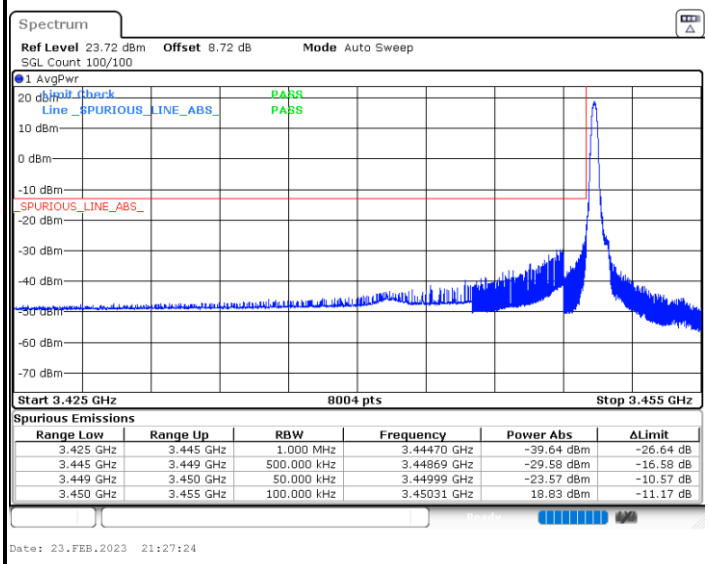
Highest Channel / FullRB



LTE Band 42 / 5MHz

16QAM

Lowest Channel / 1RB0

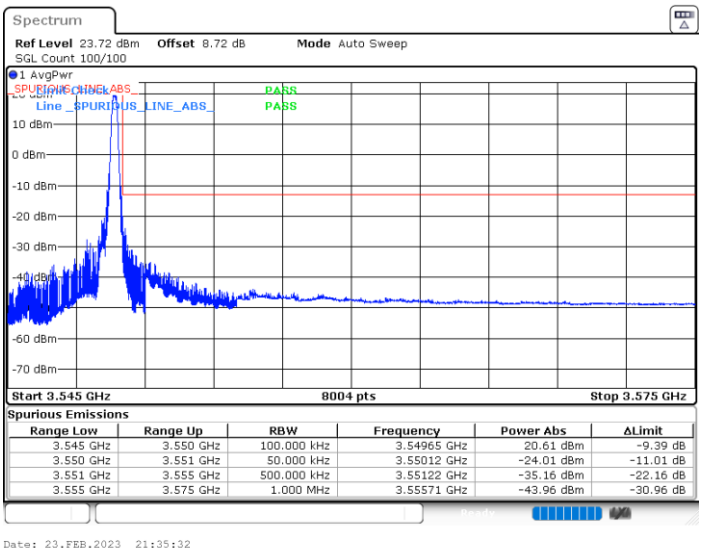


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44470 GHz	-39.64 dBm	-26.64 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44869 GHz	-29.58 dBm	-16.58 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-23.57 dBm	-10.57 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45031 GHz	18.83 dBm	-11.17 dB

Date: 23.FEB.2023 21:27:24

Highest Channel / 1RBmax

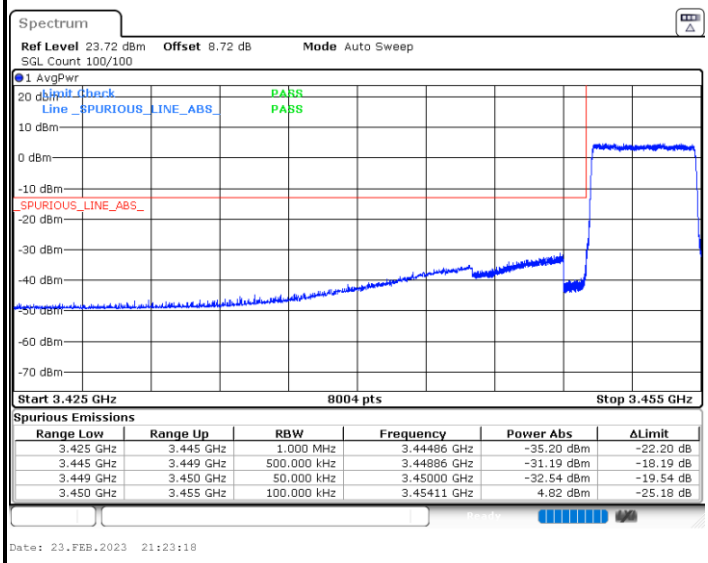


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54965 GHz	20.61 dBm	-9.39 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55012 GHz	-24.01 dBm	-11.01 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55122 GHz	-35.16 dBm	-22.16 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55571 GHz	-43.96 dBm	-30.96 dB

Date: 23.FEB.2023 21:35:32

Lowest Channel / FullRB

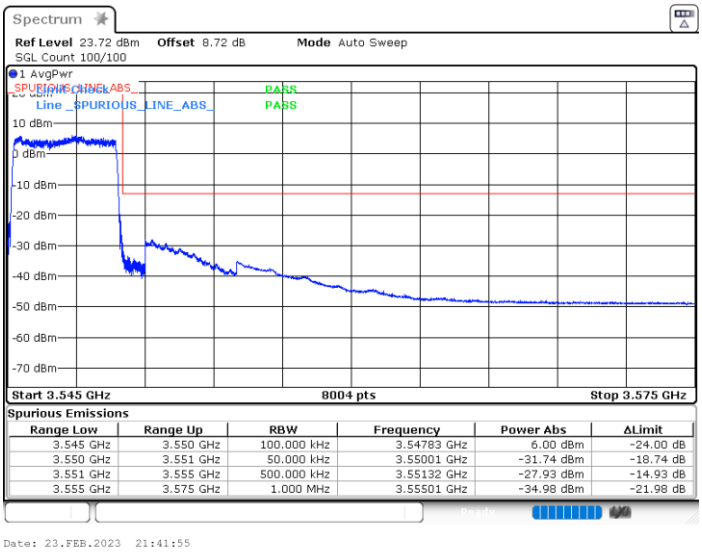


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44486 GHz	-35.20 dBm	-22.20 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44886 GHz	-31.19 dBm	-18.19 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-32.54 dBm	-19.54 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45411 GHz	4.82 dBm	-25.18 dB

Date: 23.FEB.2023 21:23:18

Highest Channel / FullRB



Spurious Emissions

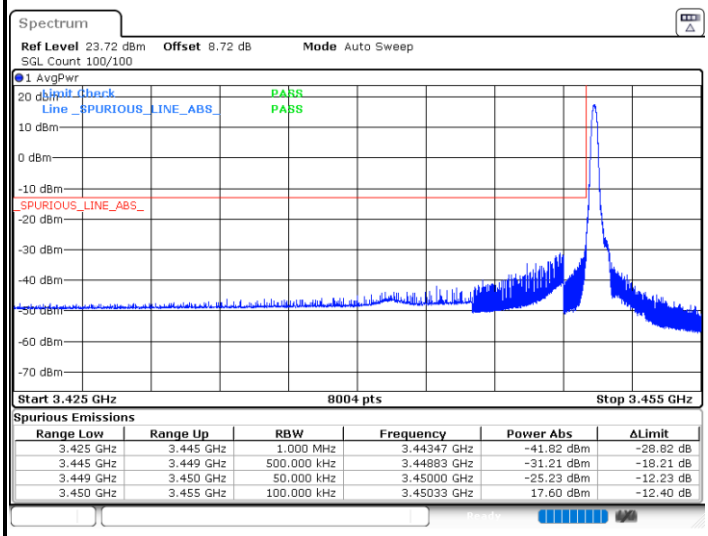
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54783 GHz	6.00 dBm	-24.00 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-31.74 dBm	-18.74 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55132 GHz	-27.93 dBm	-14.93 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55501 GHz	-34.98 dBm	-21.98 dB

Date: 23.FEB.2023 21:41:55

LTE Band 42 / 5MHz

64QAM

Lowest Channel / 1RB0

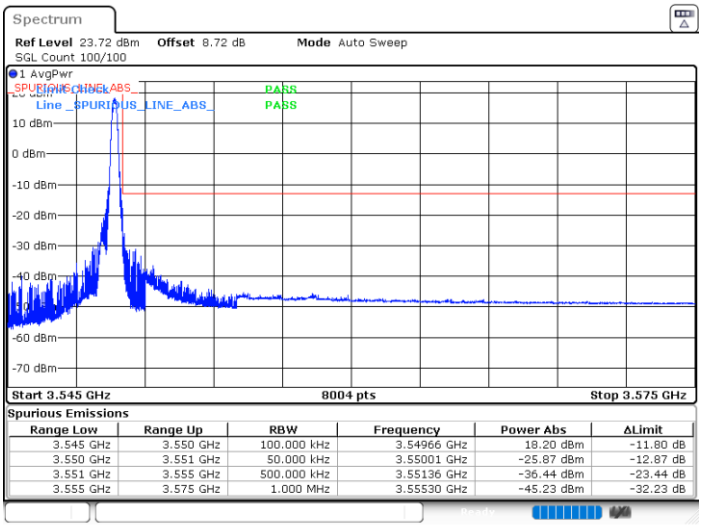


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44347 GHz	-41.82 dBm	-28.82 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44883 GHz	-31.21 dBm	-18.21 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-25.23 dBm	-12.23 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45033 GHz	17.60 dBm	-12.40 dB

Date: 23.FEB.2023 21:28:25

Highest Channel / 1RBmax

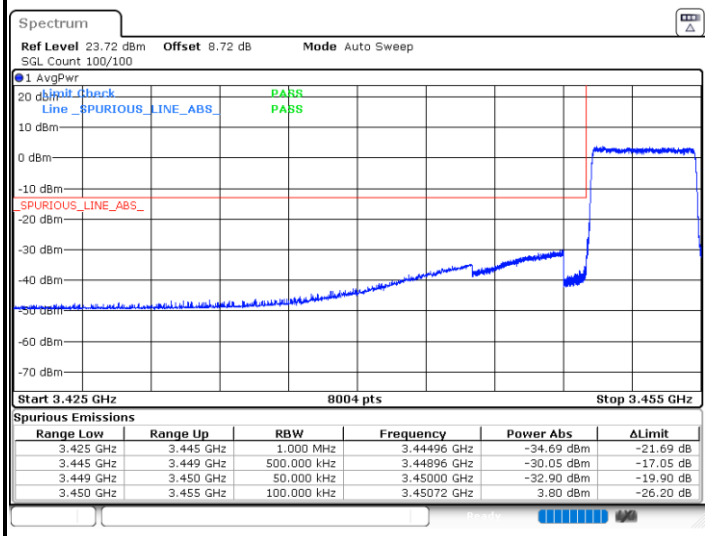


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54966 GHz	18.20 dBm	-11.80 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-25.87 dBm	-12.87 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55136 GHz	-36.44 dBm	-23.44 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55530 GHz	-45.23 dBm	-32.23 dB

Date: 23.FEB.2023 21:36:33

Lowest Channel / FullRB

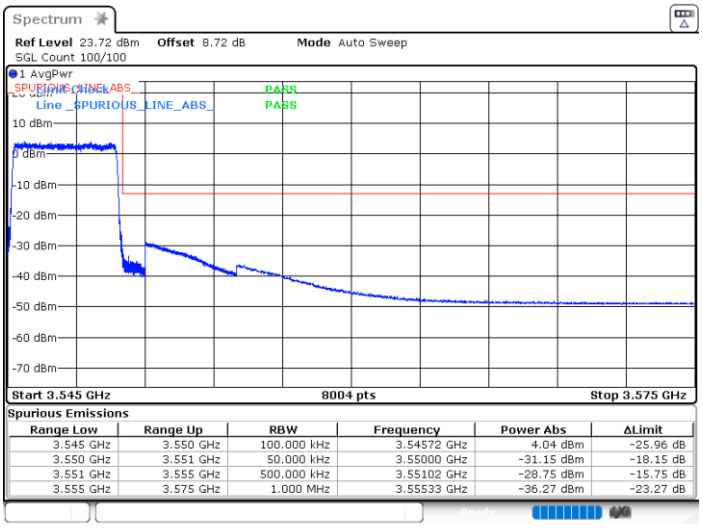


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44496 GHz	-34.69 dBm	-21.69 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44896 GHz	-30.05 dBm	-17.05 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-32.90 dBm	-19.90 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45072 GHz	3.80 dBm	-26.20 dB

Date: 23.FEB.2023 21:24:19

Highest Channel / FullRB



Spurious Emissions

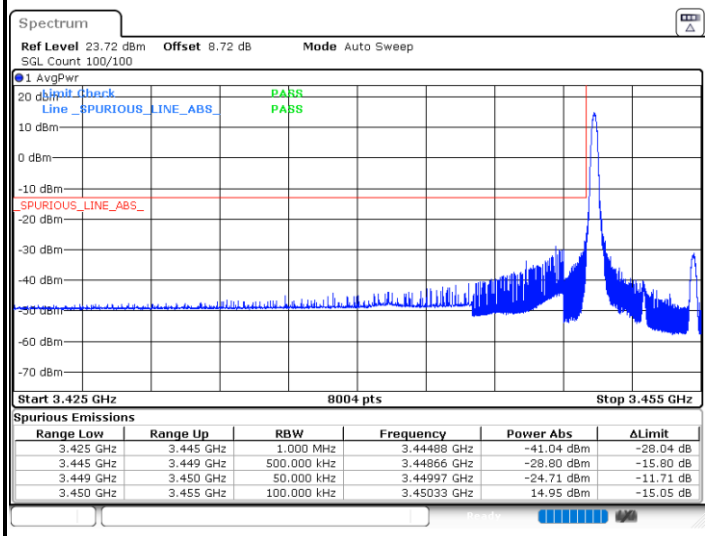
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54572 GHz	4.04 dBm	-25.96 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55000 GHz	-31.15 dBm	-18.15 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-28.75 dBm	-15.75 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55533 GHz	-36.27 dBm	-23.27 dB

Date: 23.FEB.2023 21:42:50

LTE Band 42 / 5MHz

256QAM

Lowest Channel / 1RB0

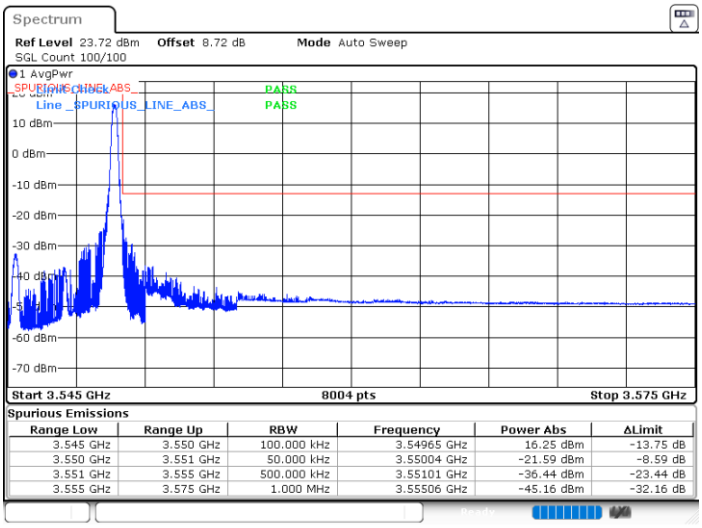


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44488 GHz	-41.04 dBm	-28.04 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44866 GHz	-28.80 dBm	-15.80 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44997 GHz	-24.71 dBm	-11.71 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45033 GHz	14.95 dBm	-15.05 dB

Date: 23.FEB.2023 21:29:26

Highest Channel / 1RBmax

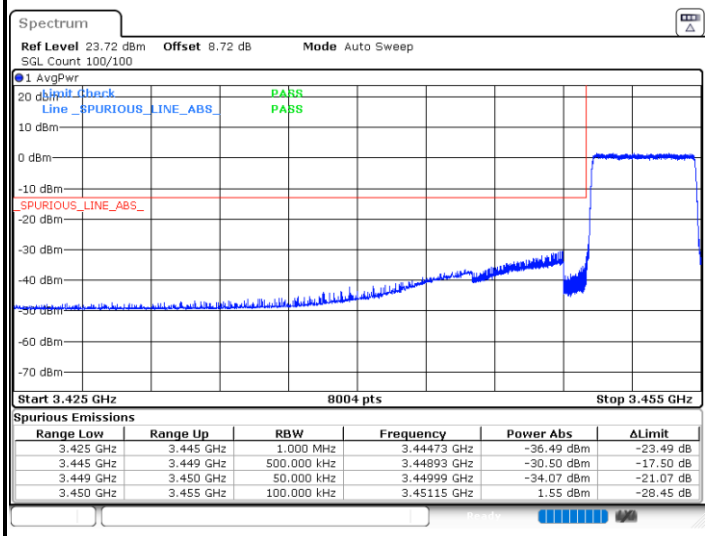


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54965 GHz	16.25 dBm	-13.75 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55004 GHz	-21.59 dBm	-8.59 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-36.44 dBm	-23.44 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55506 GHz	-45.16 dBm	-32.16 dB

Date: 23.FEB.2023 21:37:34

Lowest Channel / FullRB

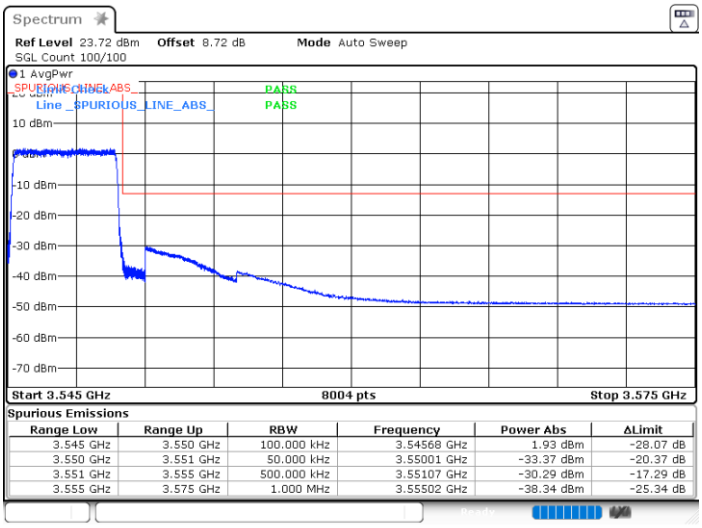


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44473 GHz	-36.49 dBm	-23.49 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44893 GHz	-30.50 dBm	-17.50 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-34.07 dBm	-21.07 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45115 GHz	1.55 dBm	-28.45 dB

Date: 23.FEB.2023 21:25:20

Highest Channel / FullRB



Spurious Emissions

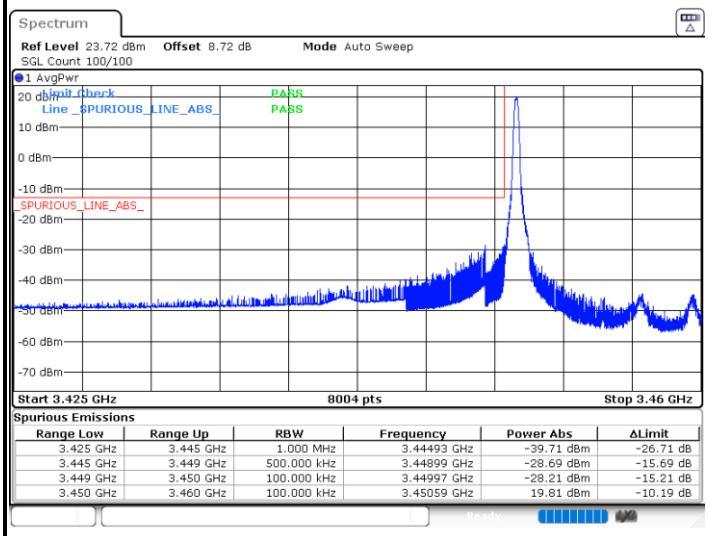
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54568 GHz	1.93 dBm	-28.07 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-33.37 dBm	-20.37 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55107 GHz	-30.29 dBm	-17.29 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55502 GHz	-38.34 dBm	-25.34 dB

Date: 23.FEB.2023 21:43:57

LTE Band 42 / 10MHz

QPSK

Lowest Channel / 1RB0

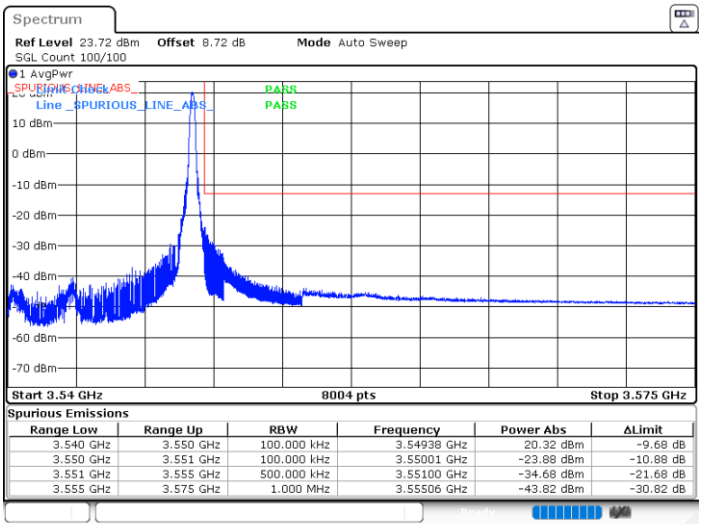


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44493 GHz	-39.71 dBm	-26.71 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44899 GHz	-28.69 dBm	-15.69 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44997 GHz	-28.21 dBm	-15.21 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45059 GHz	19.81 dBm	-10.19 dB

Date: 23.FEB.2023 22:01:41

Highest Channel / 1RBmax

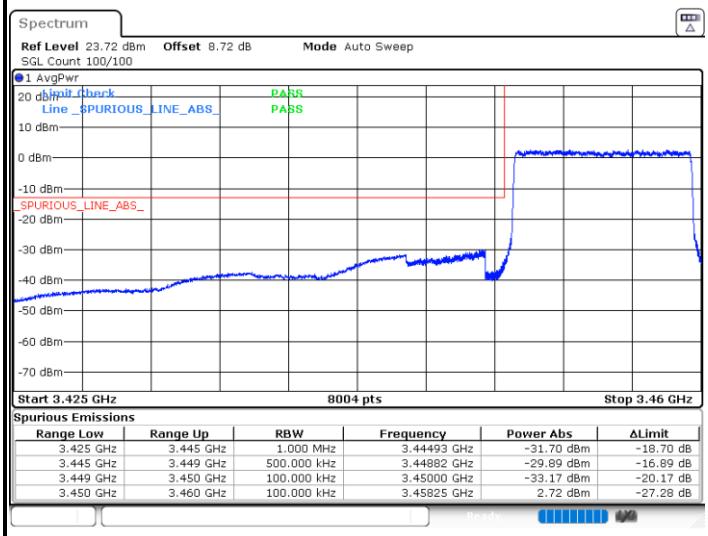


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54938 GHz	20.32 dBm	-9.68 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55001 GHz	-23.88 dBm	-10.88 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55100 GHz	-34.68 dBm	-21.68 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55506 GHz	-43.82 dBm	-30.82 dB

Date: 23.FEB.2023 22:09:49

Lowest Channel / FullRB

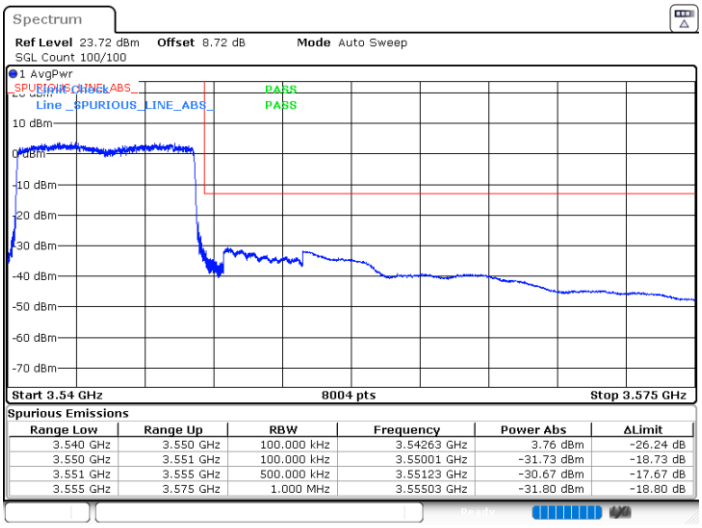


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44493 GHz	-31.70 dBm	-18.70 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44882 GHz	-29.89 dBm	-16.89 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.45000 GHz	-33.17 dBm	-20.17 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45825 GHz	2.72 dBm	-27.28 dB

Date: 23.FEB.2023 21:57:36

Highest Channel / FullRB



Spurious Emissions

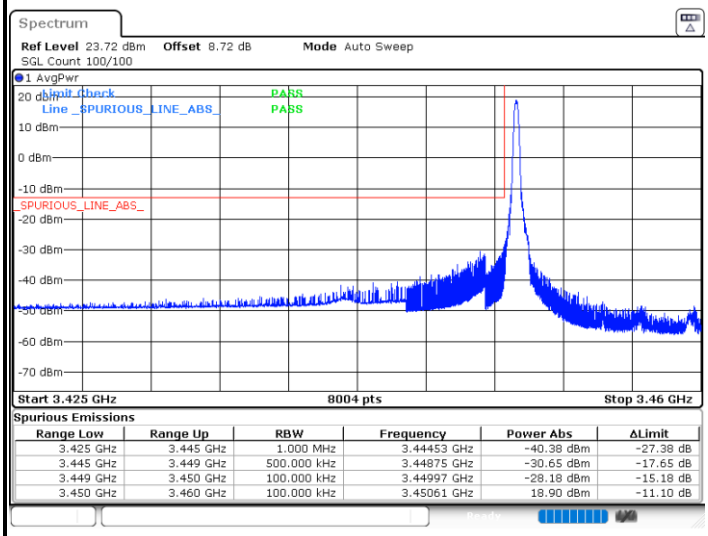
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54263 GHz	3.76 dBm	-26.24 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55001 GHz	-31.73 dBm	-18.73 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55123 GHz	-30.67 dBm	-17.67 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55503 GHz	-31.80 dBm	-18.80 dB

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

LTE Band 42 / 10MHz

16QAM

Lowest Channel / 1RB0

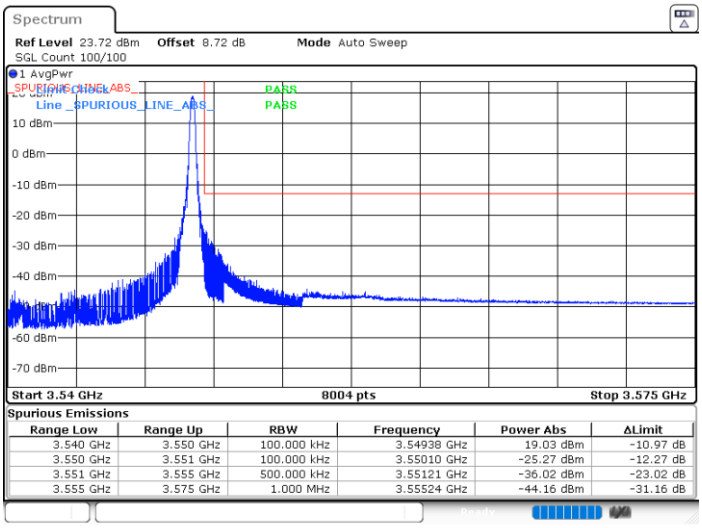


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44453 GHz	-40.38 dBm	-27.38 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44875 GHz	-30.65 dBm	-17.65 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44997 GHz	-28.18 dBm	-15.18 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45061 GHz	18.90 dBm	-11.10 dB

Date: 23.FEB.2023 22:02:42

Highest Channel / 1RBmax

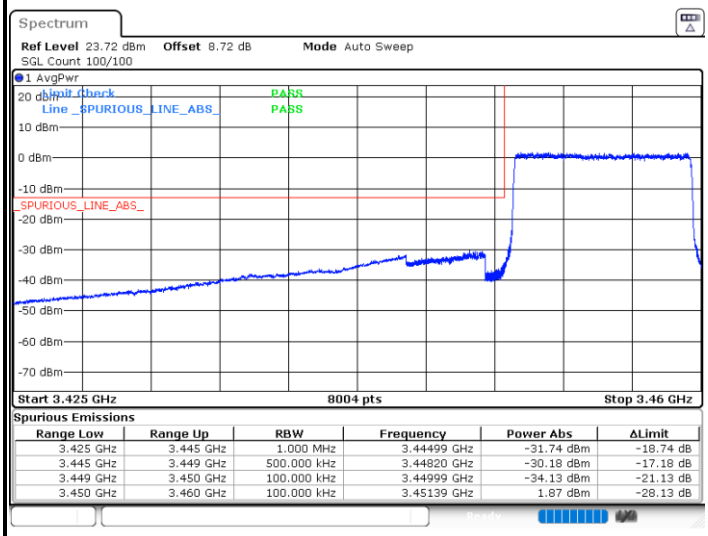


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54938 GHz	19.03 dBm	-10.97 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55010 GHz	-25.27 dBm	-12.27 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55121 GHz	-36.02 dBm	-23.02 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55524 GHz	-44.16 dBm	-31.16 dB

Date: 23.FEB.2023 22:10:51

Lowest Channel / FullRB

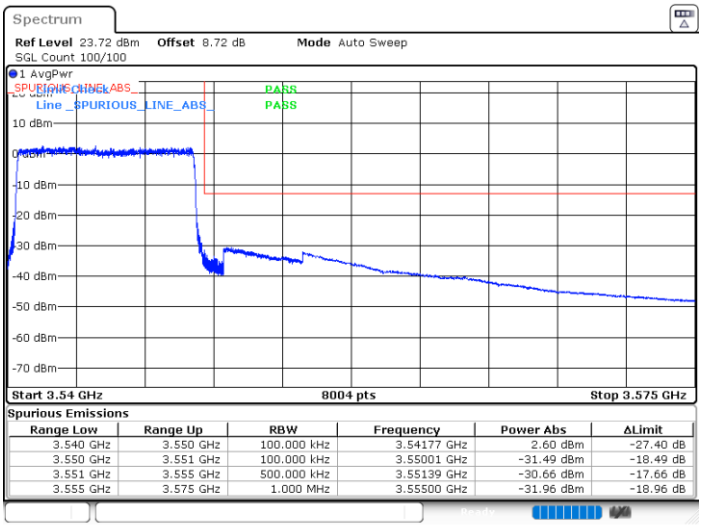


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44499 GHz	-31.74 dBm	-18.74 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44820 GHz	-30.18 dBm	-17.18 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44999 GHz	-34.13 dBm	-21.13 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45139 GHz	1.87 dBm	-28.13 dB

Date: 23.FEB.2023 21:58:37

Highest Channel / FullRB



Spurious Emissions

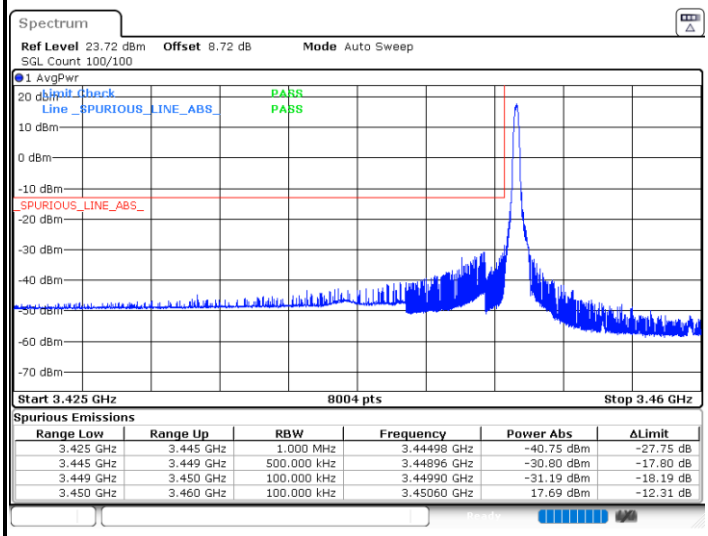
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54177 GHz	2.60 dBm	-27.40 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55001 GHz	-31.49 dBm	-18.49 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55139 GHz	-30.66 dBm	-17.66 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55500 GHz	-31.96 dBm	-18.96 dB

Date: 23.FEB.2023 22:14:56

LTE Band 42 / 10MHz

64QAM

Lowest Channel / 1RB0

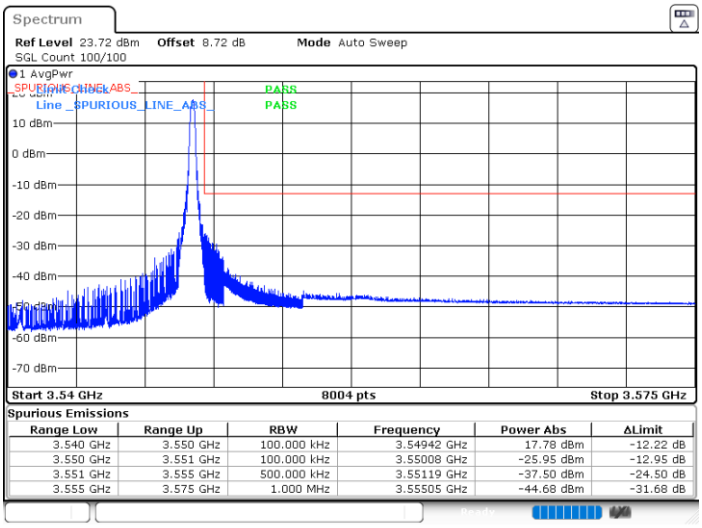


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44498 GHz	-40.75 dBm	-27.75 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44896 GHz	-30.80 dBm	-17.80 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44990 GHz	-31.19 dBm	-18.19 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45060 GHz	17.69 dBm	-12.31 dB

Date: 23.FEB.2023 22:03:43

Highest Channel / 1RBmax

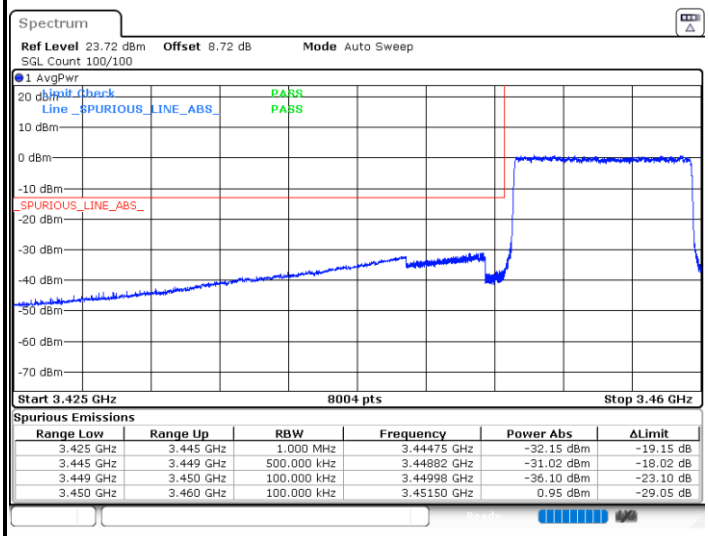


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54942 GHz	17.78 dBm	-12.22 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55008 GHz	-25.95 dBm	-12.95 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55119 GHz	-37.50 dBm	-24.50 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55505 GHz	-44.68 dBm	-31.68 dB

Date: 23.FEB.2023 22:11:51

Lowest Channel / FullRB

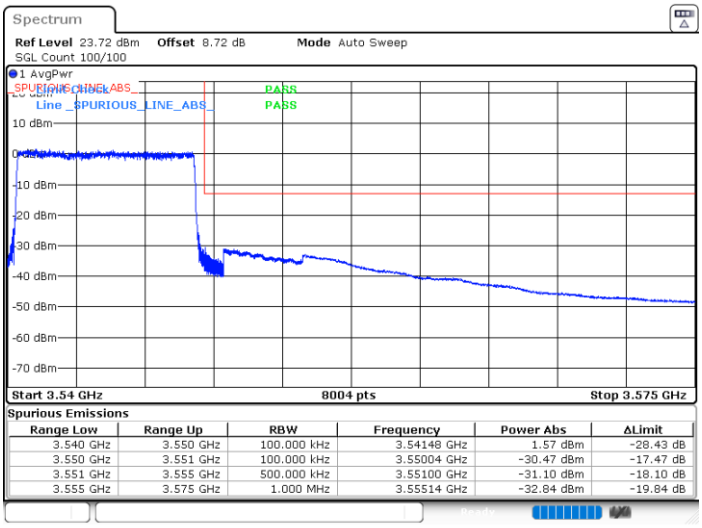


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44475 GHz	-32.15 dBm	-19.15 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44882 GHz	-31.02 dBm	-18.02 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44998 GHz	-36.10 dBm	-23.10 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45150 GHz	0.95 dBm	-29.05 dB

Date: 23.FEB.2023 21:59:37

Highest Channel / FullRB



Spurious Emissions

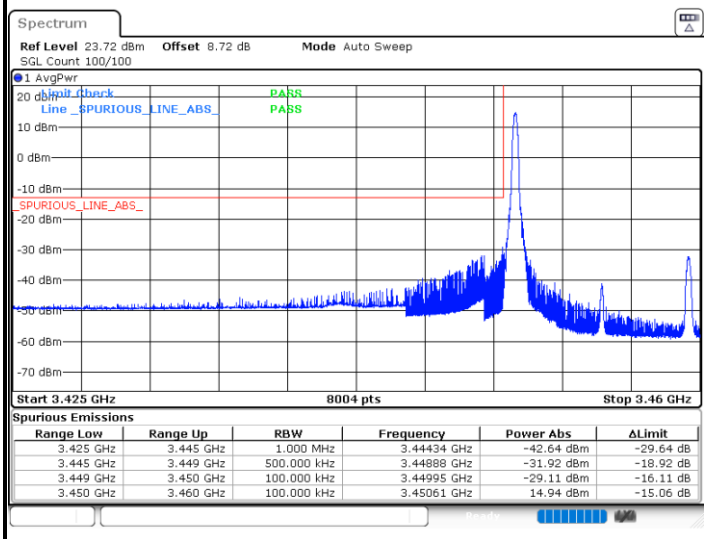
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54148 GHz	1.57 dBm	-28.43 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55004 GHz	-30.47 dBm	-17.47 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55100 GHz	-31.10 dBm	-18.10 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55514 GHz	-32.84 dBm	-19.84 dB

Date: 23.FEB.2023 22:15:57

LTE Band 42 / 10MHz

256QAM

Lowest Channel / 1RB0

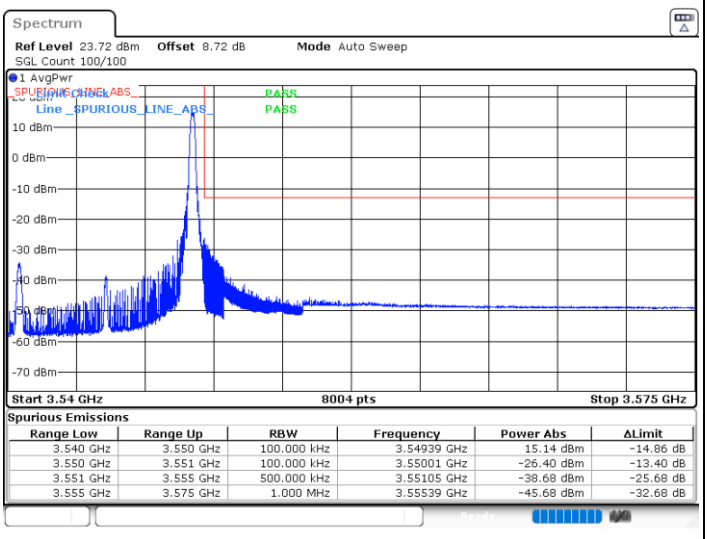


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44434 GHz	-42.64 dBm	-29.64 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44888 GHz	-31.92 dBm	-18.92 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44995 GHz	-29.11 dBm	-16.11 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45061 GHz	14.94 dBm	-15.06 dB

Date: 23.FEB.2023 22:04:44

Highest Channel / 1RBmax

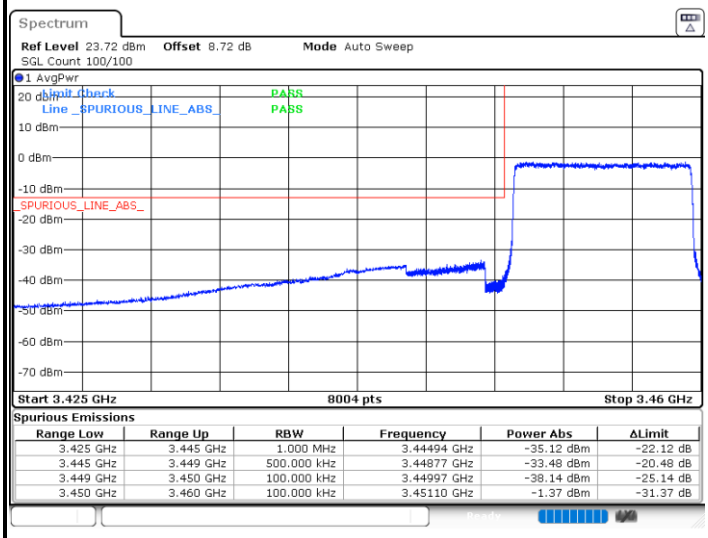


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54939 GHz	15.14 dBm	-14.86 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55001 GHz	-26.40 dBm	-13.40 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55105 GHz	-38.68 dBm	-25.68 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55539 GHz	-45.68 dBm	-32.68 dB

Date: 23.FEB.2023 22:12:52

Lowest Channel / FullRB

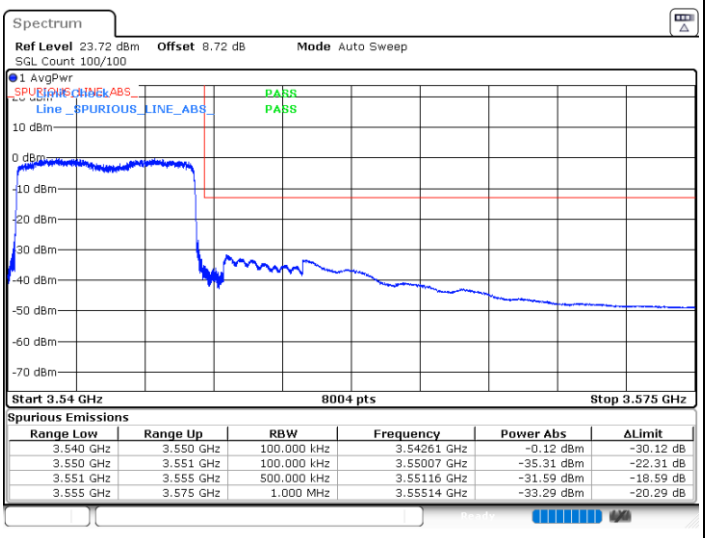


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44494 GHz	-35.12 dBm	-22.12 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44877 GHz	-33.48 dBm	-20.48 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44997 GHz	-38.14 dBm	-25.14 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45110 GHz	-1.37 dBm	-31.37 dB

Date: 23.FEB.2023 22:00:38

Highest Channel / FullRB



Spurious Emissions

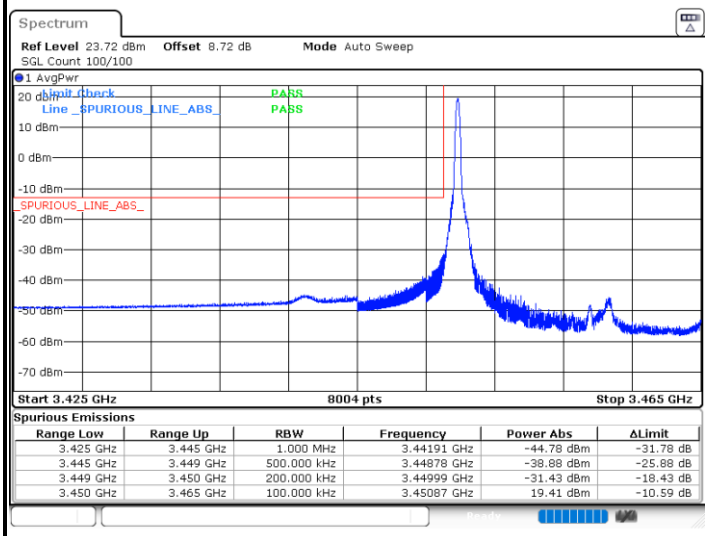
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54261 GHz	-0.12 dBm	-30.12 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55007 GHz	-35.31 dBm	-22.31 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55116 GHz	-31.59 dBm	-18.59 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55514 GHz	-33.29 dBm	-20.29 dB

Date: 23.FEB.2023 22:16:59

LTE Band 42 / 15MHz

QPSK

Lowest Channel / 1RB0

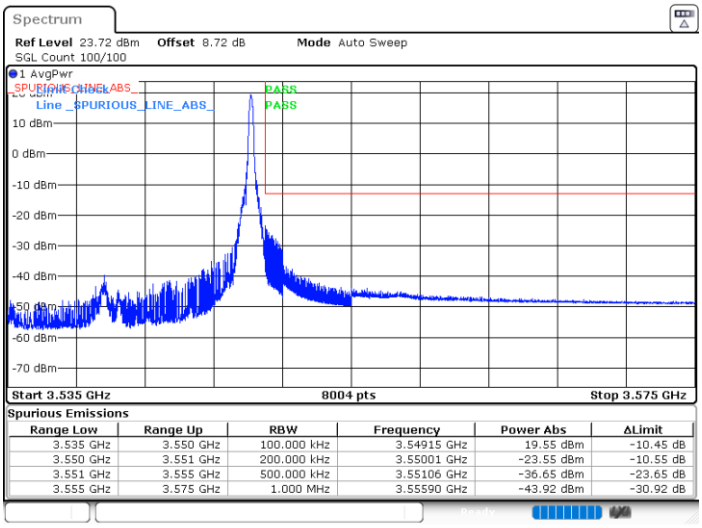


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44191 GHz	-44.78 dBm	-31.78 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44878 GHz	-38.88 dBm	-25.88 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-31.43 dBm	-18.43 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45087 GHz	19.41 dBm	-10.59 dB

Date: 23.FEB.2023 22:25:35

Highest Channel / 1RBmax

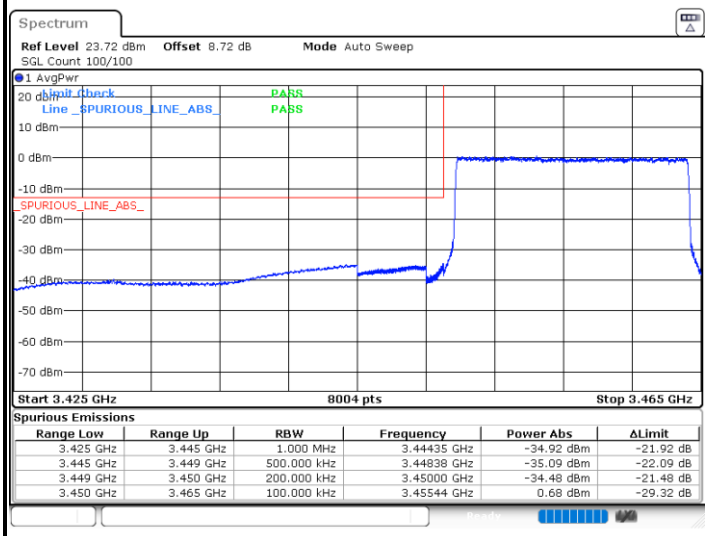


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54915 GHz	19.55 dBm	-10.45 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55001 GHz	-23.55 dBm	-10.55 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55106 GHz	-36.65 dBm	-23.65 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55590 GHz	-43.92 dBm	-30.92 dB

Date: 23.FEB.2023 22:33:42

Lowest Channel / FullRB

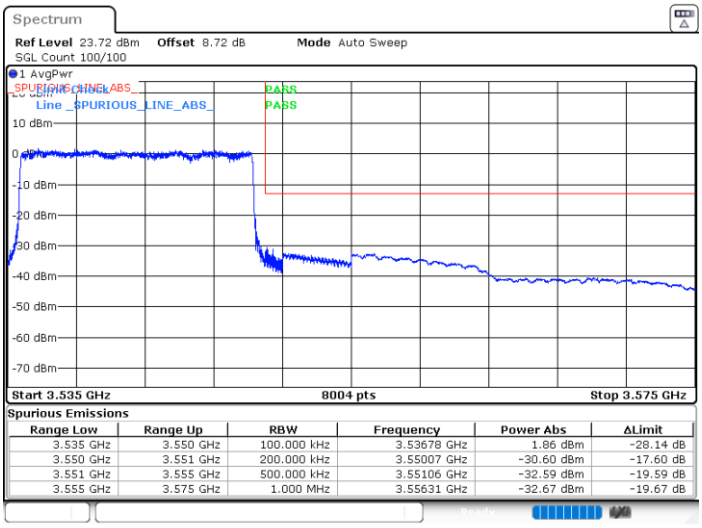


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44435 GHz	-34.92 dBm	-21.92 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44838 GHz	-35.09 dBm	-22.09 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-34.48 dBm	-21.48 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45544 GHz	0.68 dBm	-29.32 dB

Date: 23.FEB.2023 22:21:30

Highest Channel / FullRB



Spurious Emissions

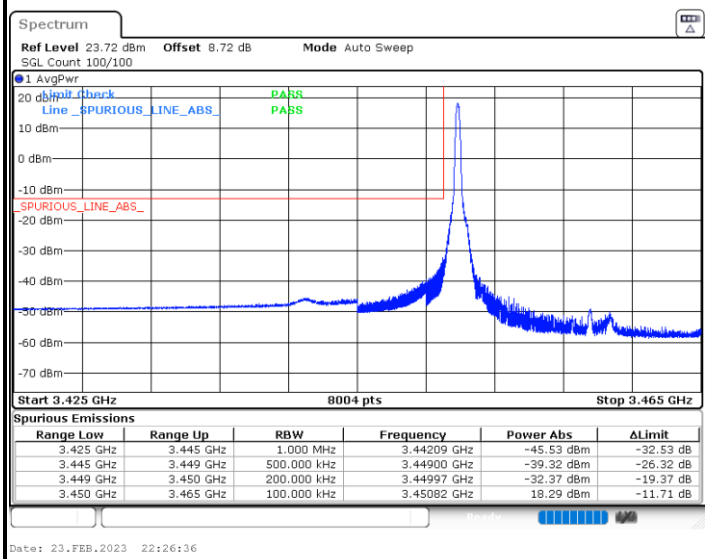
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.53678 GHz	1.86 dBm	-28.14 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55007 GHz	-30.60 dBm	-17.60 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55106 GHz	-32.59 dBm	-19.59 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55631 GHz	-32.67 dBm	-19.67 dB

Date: 23.FEB.2023 22:37:48

LTE Band 42 / 15MHz

16QAM

Lowest Channel / 1RB0

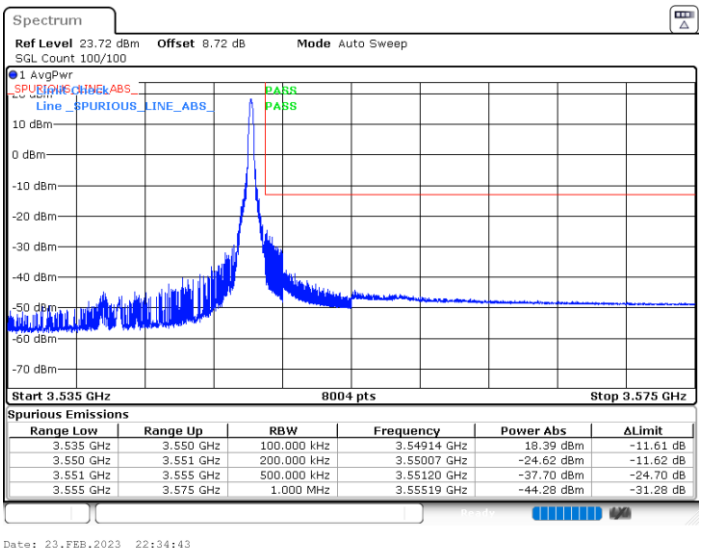


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44209 GHz	-45.53 dBm	-32.53 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44900 GHz	-39.32 dBm	-26.32 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44997 GHz	-32.37 dBm	-19.37 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45082 GHz	18.29 dBm	-11.71 dB

Date: 23.FEB.2023 22:26:36

Highest Channel / 1RBmax

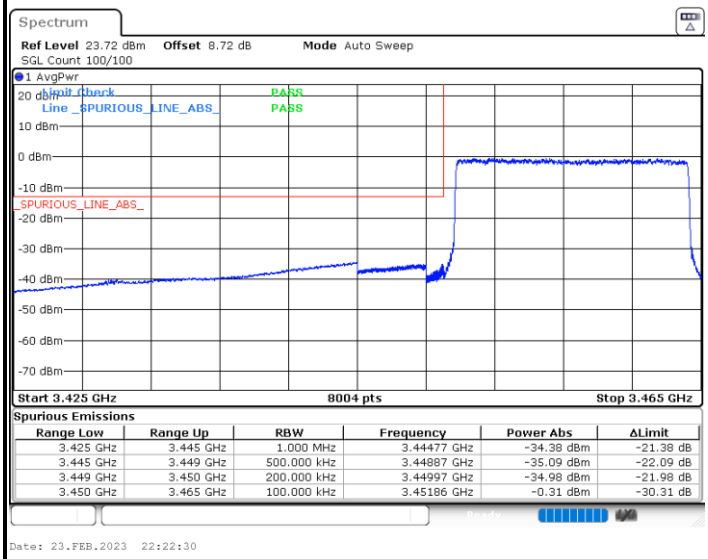


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54914 GHz	18.39 dBm	-11.61 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55007 GHz	-24.62 dBm	-11.62 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55120 GHz	-37.70 dBm	-24.70 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55519 GHz	-44.28 dBm	-31.28 dB

Date: 23.FEB.2023 22:34:43

Lowest Channel / FullRB

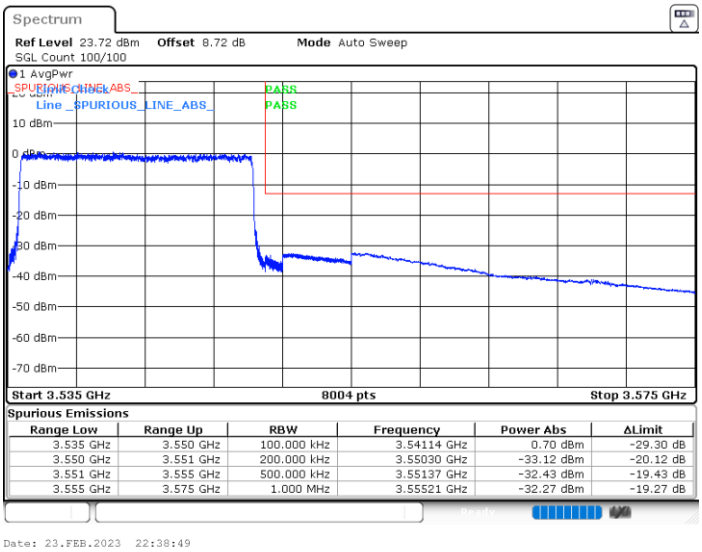


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44477 GHz	-34.38 dBm	-21.38 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44887 GHz	-35.09 dBm	-22.09 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44997 GHz	-34.98 dBm	-21.98 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45186 GHz	-0.31 dBm	-30.31 dB

Date: 23.FEB.2023 22:22:30

Highest Channel / FullRB



Spurious Emissions

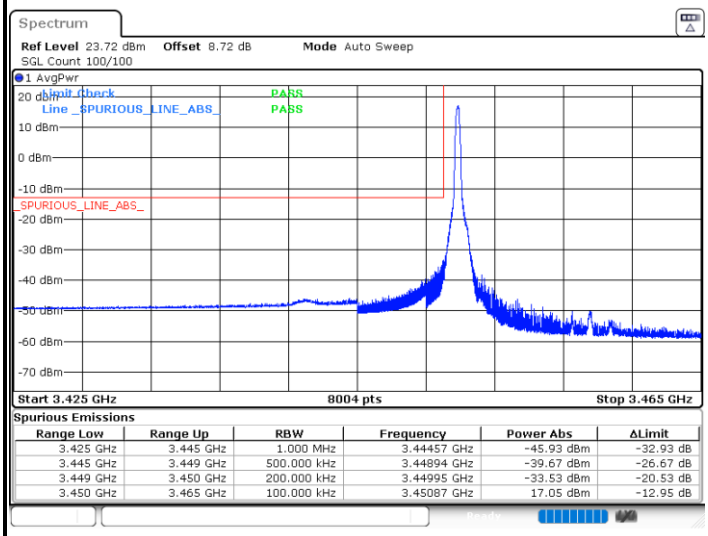
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54114 GHz	0.70 dBm	-29.30 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55030 GHz	-33.12 dBm	-20.12 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55137 GHz	-32.43 dBm	-19.43 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55521 GHz	-32.27 dBm	-19.27 dB

Date: 23.FEB.2023 22:38:49

LTE Band 42 / 15MHz

64QAM

Lowest Channel / 1RB0

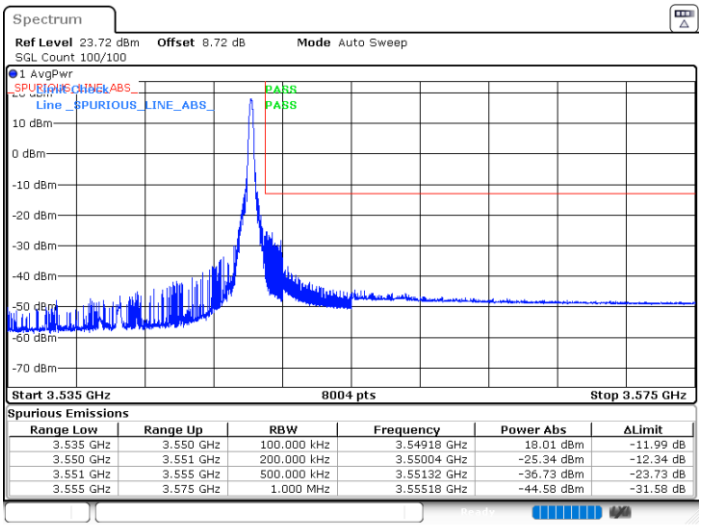


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44457 GHz	-45.93 dBm	-32.93 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44894 GHz	-39.67 dBm	-26.67 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44995 GHz	-33.53 dBm	-20.53 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45087 GHz	17.05 dBm	-12.95 dB

Date: 23.FEB.2023 22:27:37

Highest Channel / 1RBmax

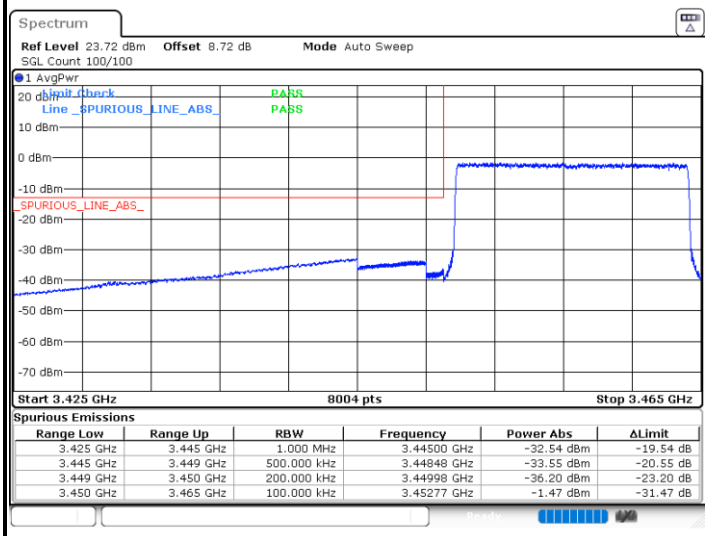


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54918 GHz	18.01 dBm	-11.99 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55004 GHz	-25.34 dBm	-12.34 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55132 GHz	-36.73 dBm	-23.73 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55518 GHz	-44.58 dBm	-31.58 dB

Date: 23.FEB.2023 22:35:43

Lowest Channel / FullRB

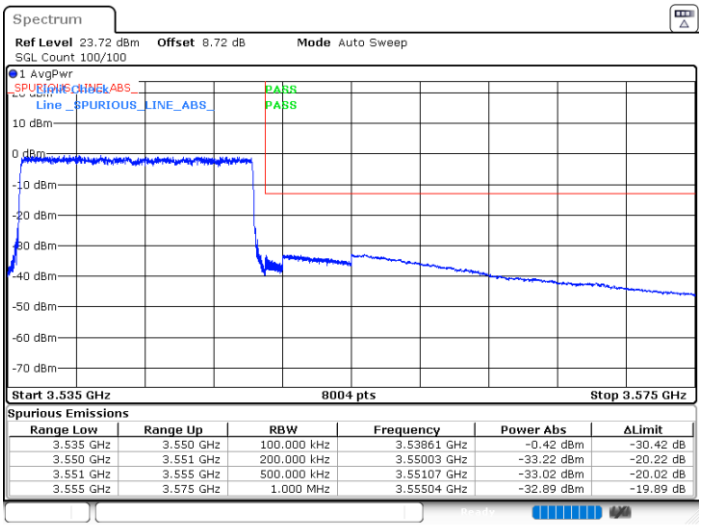


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44500 GHz	-32.54 dBm	-19.54 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44848 GHz	-33.55 dBm	-20.55 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44998 GHz	-36.20 dBm	-23.20 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45277 GHz	-1.47 dBm	-31.47 dB

Date: 23.FEB.2023 22:23:31

Highest Channel / FullRB



Spurious Emissions

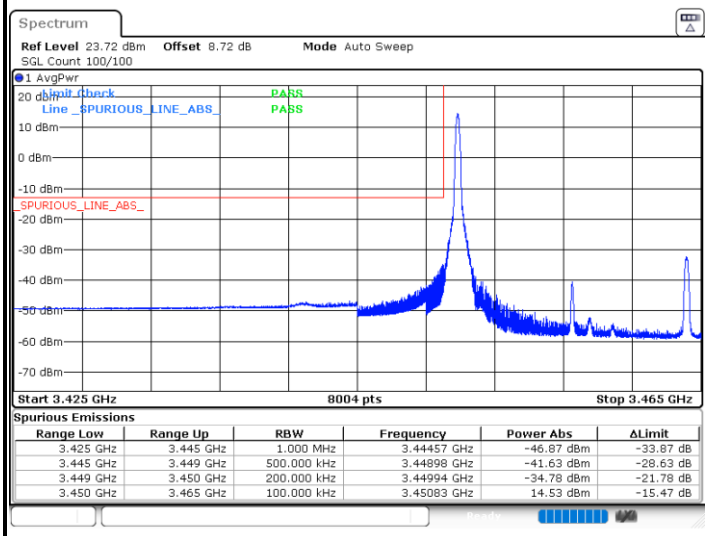
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.53861 GHz	-0.42 dBm	-30.42 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55003 GHz	-33.22 dBm	-20.22 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55107 GHz	-33.02 dBm	-20.02 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55504 GHz	-32.89 dBm	-19.89 dB

Date: 23.FEB.2023 22:39:50

LTE Band 42 / 15MHz

256QAM

Lowest Channel / 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44457 GHz	-46.87 dBm	-33.87 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44898 GHz	-41.63 dBm	-28.63 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44994 GHz	-34.78 dBm	-21.78 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45083 GHz	14.53 dBm	-15.47 dB

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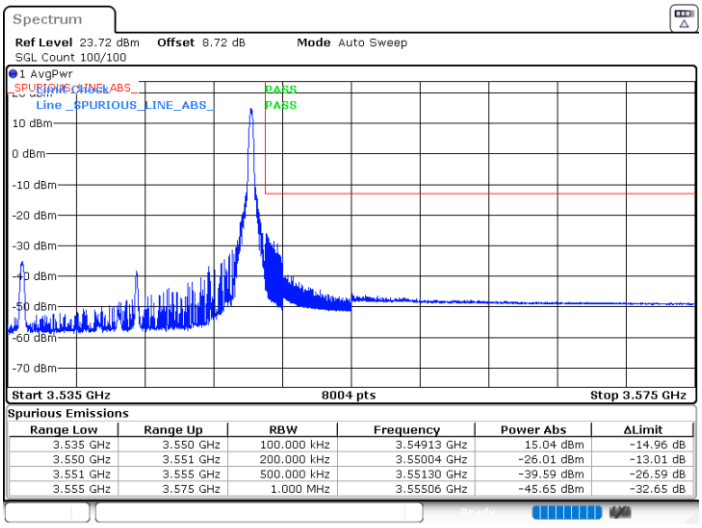
Highest Channel / 1RBmax

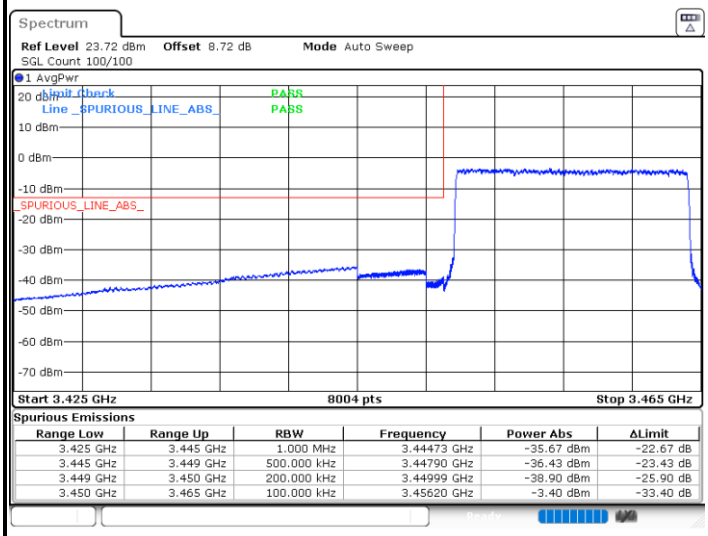


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54913 GHz	15.04 dBm	-14.96 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55004 GHz	-26.01 dBm	-13.01 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55130 GHz	-39.59 dBm	-26.59 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55506 GHz	-45.65 dBm	-32.65 dB

Date: 23.FEB.2023 22:36:44

Lowest Channel / FullRB

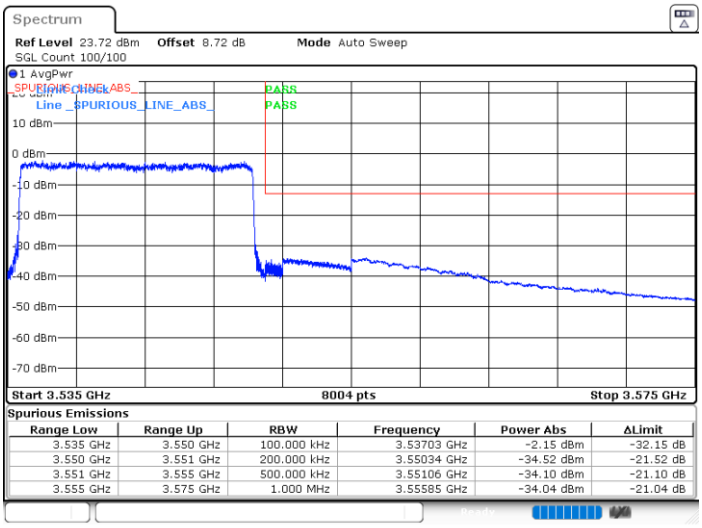


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44473 GHz	-35.67 dBm	-22.67 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44790 GHz	-36.43 dBm	-23.43 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-38.90 dBm	-25.90 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45620 GHz	-3.40 dBm	-33.40 dB

Date: 23.FEB.2023 22:24:31

Highest Channel / FullRB



Spurious Emissions

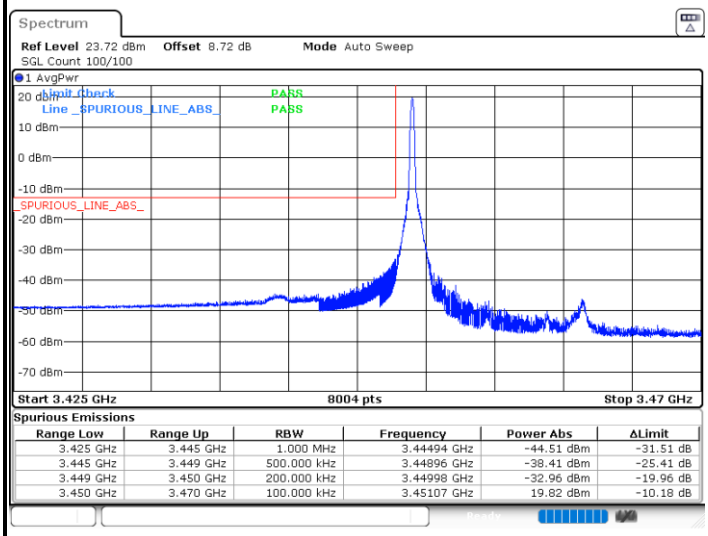
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.53703 GHz	-2.15 dBm	-32.15 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55034 GHz	-34.52 dBm	-21.52 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55106 GHz	-34.10 dBm	-21.10 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55585 GHz	-34.04 dBm	-21.04 dB

Date: 23.FEB.2023 22:40:51

LTE Band 42 / 20MHz

QPSK

Lowest Channel / 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44494 GHz	-44.51 dBm	-31.51 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44896 GHz	-38.41 dBm	-25.41 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44998 GHz	-32.96 dBm	-19.96 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45107 GHz	19.82 dBm	-10.18 dB

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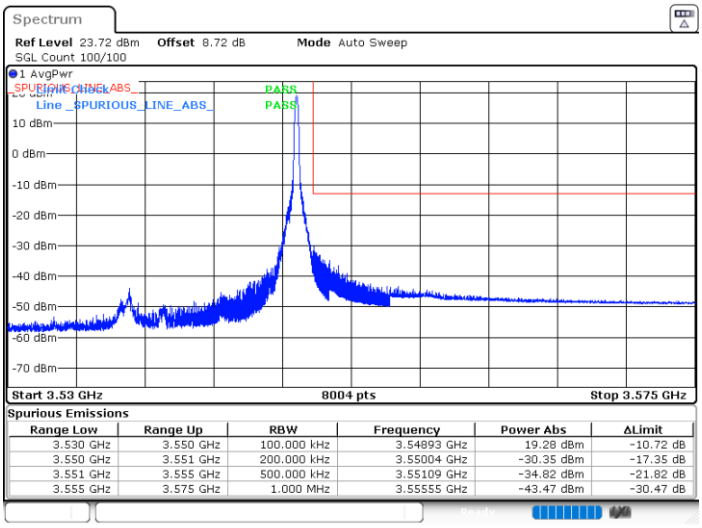
Highest Channel / 1RBmax

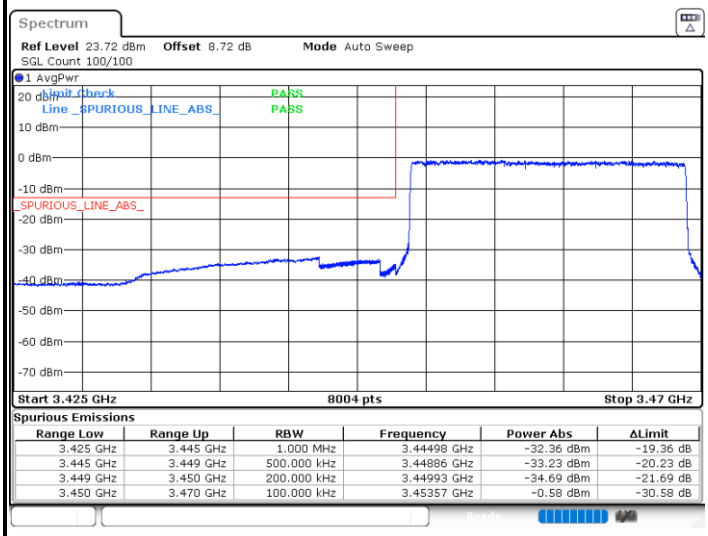


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54893 GHz	19.28 dBm	-10.72 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55004 GHz	-30.35 dBm	-17.35 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55109 GHz	-34.82 dBm	-21.82 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55555 GHz	-43.47 dBm	-30.47 dB

Date: 23.FEB.2023 22:54:15

Lowest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44498 GHz	-32.36 dBm	-19.36 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44886 GHz	-33.23 dBm	-20.23 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44993 GHz	-34.69 dBm	-21.69 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45357 GHz	-0.58 dBm	-30.58 dB

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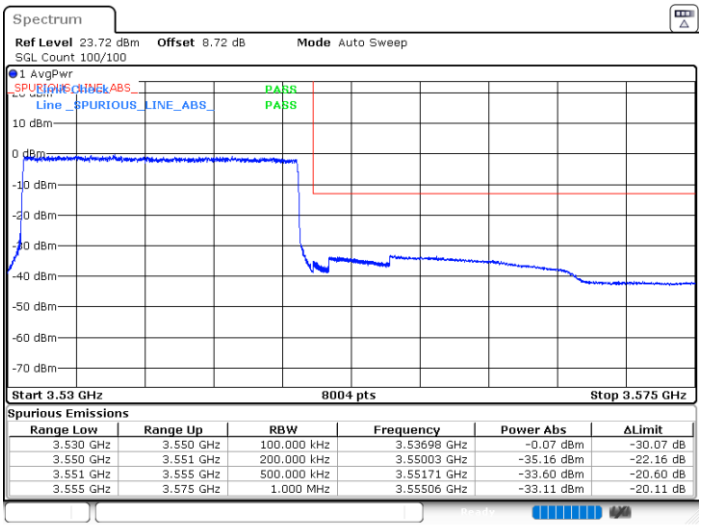
Highest Channel / FullRB



Spurious Emissions

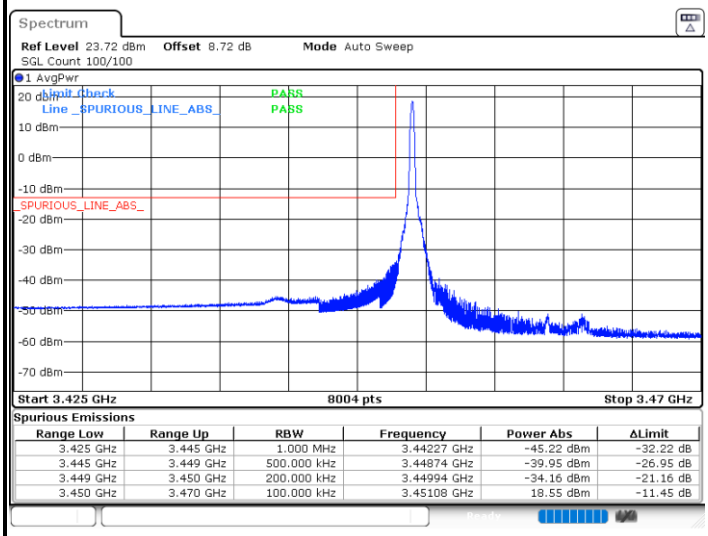
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53698 GHz	-0.07 dBm	-30.07 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55003 GHz	-35.16 dBm	-22.16 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55171 GHz	-33.60 dBm	-20.60 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55506 GHz	-33.11 dBm	-20.11 dB

Date: 23.FEB.2023 22:58:21

LTE Band 42 / 20MHz

16QAM

Lowest Channel / 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44227 GHz	-45.22 dBm	-32.22 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44874 GHz	-39.95 dBm	-26.95 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44994 GHz	-34.16 dBm	-21.16 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45108 GHz	18.55 dBm	-11.45 dB

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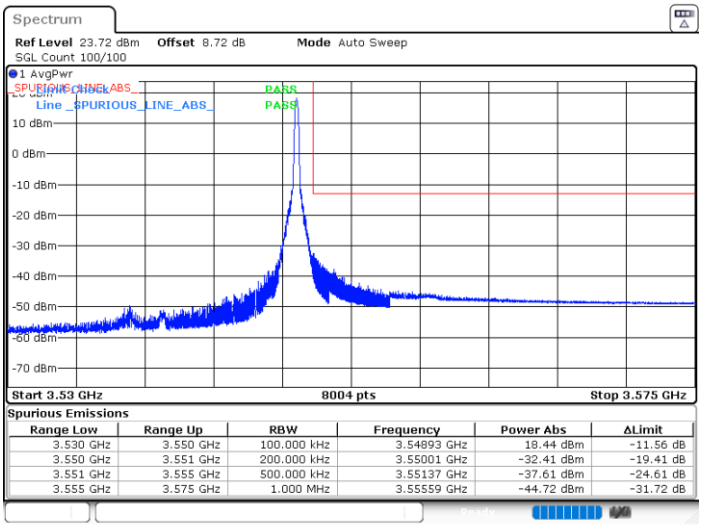
Highest Channel / 1RBmax

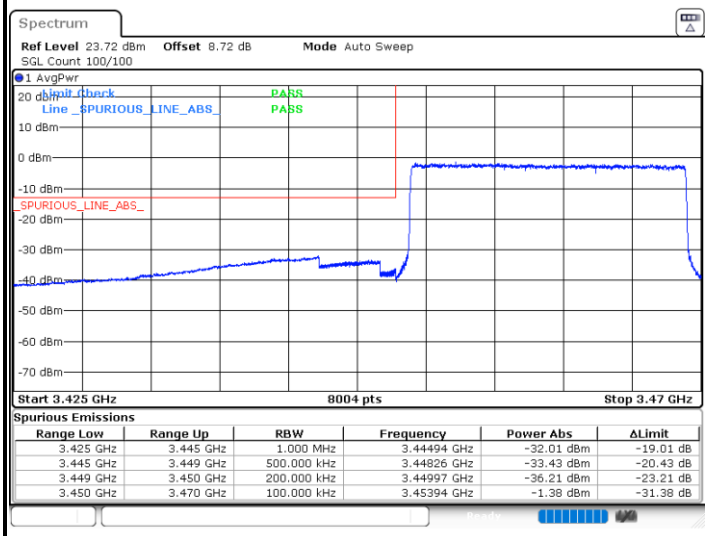


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54893 GHz	18.44 dBm	-11.56 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55001 GHz	-32.41 dBm	-19.41 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55137 GHz	-37.61 dBm	-24.61 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55559 GHz	-44.72 dBm	-31.72 dB

Date: 23.FEB.2023 22:55:16

Lowest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44494 GHz	-32.01 dBm	-19.01 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44826 GHz	-33.43 dBm	-20.43 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44997 GHz	-36.21 dBm	-23.21 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45394 GHz	-1.38 dBm	-31.38 dB

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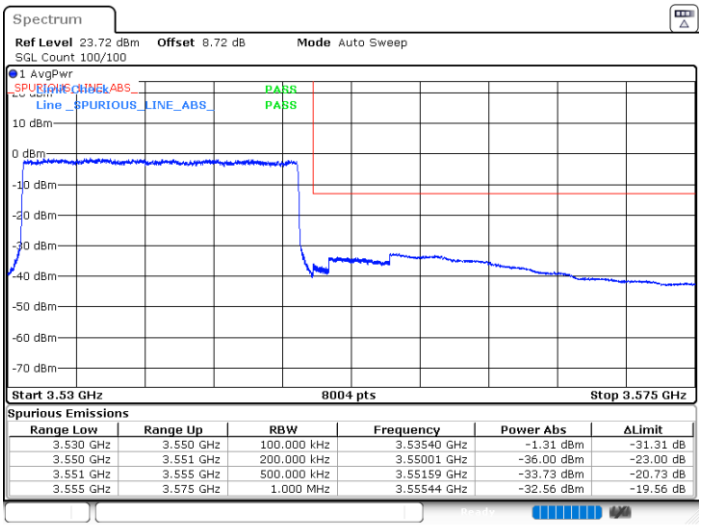
Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53540 GHz	-1.31 dBm	-31.31 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55001 GHz	-36.00 dBm	-23.00 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55159 GHz	-33.73 dBm	-20.73 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55544 GHz	-32.56 dBm	-19.56 dB

Date: 23.FEB.2023 22:59:22