FCC RF Test Report

APPLICANT	**:**	**Smawave Technology Co. ,Ltd**
EQUIPMENT	**:**	**CAT12 outdoor CPE**
BRAND NAME	**:**	**Smawave**
MODEL NAME	**:**	**SRW410**
FCC ID	**:**	**2AU8HSRW410-CBRS**
STANDARD	**:**	**47 CFR Part 2, 96**
CLASSIFICATION	**:**	**Citizens Band Category A and B Devices (CBD)**
EQUIPMENT TYPE	**:**	**CPE-CBSD (Category B)**
TEST DATE(S)	**:**	**Dec. 19, 2022 ~ Jan. 13, 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 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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History of this test report

Report No.	Version	Description	Issued Date
FG2N2804B	01	Initial issue of report	Jan. 13, 2023

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 6.28 dB at 7284.000 MHz

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

1 General Description

1.1 Applicant

Smawave Technology Co. ,Ltd
3/F, Building 8, 1001 North Qinzhou Road，Xuhui District, Shanghai, China

1.2 Manufacturer

Smawave Technology Co. ,Ltd
3/F, Building 8, 1001 North Qinzhou Road，Xuhui District, Shanghai, China

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	CAT12 outdoor CPE
Brand Name	Smawave
Model Name	SRW410
FCC ID	2AU8HSRW410-CBRS
Tx Frequency	LTE Band 48: 3550 MHz ~ 3700 MHz
Rx Frequency	LTE Band 48: 3550 MHz ~ 3700 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	Ant 0: LTE Band 48: 23.69 dBm LTE Band 48B: 23.48 dBm LTE Band 48C: 23.45 dBm
Antenna Gain	Ant 0: 7.08 dBi Ant 2: 6.80 dBi
Type of Modulation	QPSK / 16QAM / 64QAM
IMEI Code	Conducted: 862165041880814 Radiation: 862165041880921
HW Version	V1.0
SW Version	OCB12FW_Codium_CBSD_V1.0.12

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. The maximum EIRP is calculated from max output power and antenna gain, only the maximum EIRP of antenna 0 is shown in the report.
3. LTE Band 48 support UL MIMO mode for Ant 0&Ant 2, the MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
4. For B48 UL MIMO mode, the conducted BE/Spurious are tested at single antenna port and add 10*log(N_{ANT}) according to KDB 662911 D01.

1.4 Maximum EIRP Power and Emission Designator

LTE Band 48		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	3552.5~3697.5	0.8810	4M51G7D	0.7145	4M52W7D
10	3555~3695	1.0940	8M99G7D	0.8750	9M07W7D
15	3557.5~3692.5	1.1015	13M5G7D	0.8851	13M4W7D
20	3560~3690	1.1940	17M8G7D	0.9908	17M9W7D
LTE Band 48 UL MIMO		**QPSK**		**16QAM/64QAM**	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	3552.5~3697.5	0.7478	4M50G7D	0.7153	4M51W7D
10	3555~3695	0.9333	9M01G7D	0.7728	9M03W7D
15	3557.5~3692.5	0.9071	13M5G7D	0.7621	13M5W7D
20	3560~3690	0.9694	17M9G7D	0.7392	17M9W7D

LTE Band 48B_CA	QPSK		16QAM/64QAM	
BW (MHz) Frequency (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10MHz+10MHz (3555 ~ 3695 MHz)	1.1376	18M7G7D	0.9333	18M7W7D
LTE Band 48C_CA	**QPSK**		**16QAM/64QAM**	
BW (MHz) Frequency (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5MHz+20MHz (3553.5 ~ 3690 MHz)	0.9772	23M3G7D	0.9036	23M3W7D
10MHz+20MHz (3555.5 ~ 3690 MHz)	1.1092	27M8G7D	0.8851	27M9W7D
15MHz+20MHz (3557.8 ~ 3690 MHz)	1.0965	32M7G7D	0.8710	32M7W7D
20MHz+5MHz (3560 ~ 3696.7 MHz)	1.0520	23M2G7D	0.9120	23M1W7D
20MHz+10MHz (3560 ~ 3694.5 MHz)	1.1272	28M0G7D	0.9204	28M1W7D
20MHz+15MHz (3560 ~ 3692.2 MHz)	1.0715	32M8G7D	0.8670	32M6W7D
20MHz+20MHz (3560 ~ 3690 MHz)	1.1298	37M6G7D	0.9290	37M7W7D

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.**
	TH01- KS 03CH04-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:

- ANSI C63.26-2015
- 47 CFR Part 2, 96
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS v03
- 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.

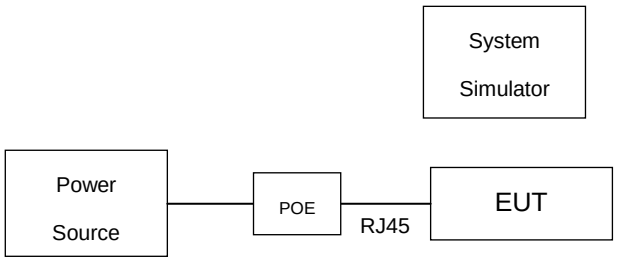
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	48	-	-	v	v	v	v	v	v	v	v		v	v	v	v
EIRP PSD	48	-	-	v	v	v	v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	48	-	-	v	v	v	v	v	v				v		v	
Conducted Band Edge	48	-	-	v	v	v	v	v	v	v	v		v	v		v
Peak-to-Average Ratio	48	-	-				v	v	v	v			v		v	
Conducted Spurious Emission	48	-	-	v	v	v	v	v			v		v	v	v	v
E.I.R.P	48	-	-	v	v	v	v	v	v	v	v		v	v	v	v
Frequency Stability	48	-	-		v			v			v				v	
Radiated Spurious Emission	48	Worst Case													v	
Remark	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.															

Test Items	Band	Bandwidth (MHz)								Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	10+10	20+5	5+20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	48C	v	v	v	v	v	-	v	v	v	v	v	v		v	v	v	v
	48B	-	-	-	-	-	v	-	-	v	v	v	v		v	v	v	v
EIRP PSD	48C	v	v	v	v	v	-	v	v	v	v	v	v		v	v	v	v
	48B	-	-	-	-	-	v	-	-	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	48C	v	v	v	v	v	-	v	v	v	v				v		v	
	48B	-	-	-	-	-	v	-	-	v	v				v		v	
Conducted Band Edge	48C	v	v	v	v	v	-	v	v	v	v	v	v		v	v	v	v
	48B	-	-	-	-	-	v	-	-	v	v	v	v		v	v	v	v
Conducted Spurious Emission	48C	v	v	v	v	v	-	v	v	v			v			v	v	v
	48B	-	-	-	-	-	v	-	-	v			v			v	v	v
E.R.P / E.I.R.P	48C	v	v	v	v	v	-	v	v	v	v	v	v		v	v	v	v
	48B	-	-	-	-	-	v	-	-	v	v	v	v		v	v	v	v
Frequency Stability	48C	v					-			v			v				v	
	48B	-	-	-	-	-	v	-	-	v			v				v	
Radiated Spurious Emission	48C	Worst Case															v	
	48B	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. 4. All test items are based on engineering evaluation.																	

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
	48A-48A	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. 4. The test items of intra band CA 48A-48A were cover by LTE single carrier due to the CA power is reduced according to 3GPP MPR															

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

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	MT8820/8821	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.5 dB.

Example :

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

= 6.5(dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	55340	55990	56640
	Frequency	3560.0	3625.0	3690.0
15	Channel	55315	55990	56665
	Frequency	3557.5	3625.0	3692.5
10	Channel	55290	55990	56690
	Frequency	3555.0	3625.0	3695.0
5	Channel	55265	55990	56715
	Frequency	3552.5	3625.0	3697.5

LTE Band 48B_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 10	PCC	Channel	55290	55941	56591
		Frequency	3555	3620.1	3685.1
	SCC	Channel	55389	56039	56690
		Frequency	3564.9	3629.9	3695

LTE Band 48C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5 + 20	PCC	Channel	55273	55898	56523
		Frequency	3553.3	3615.8	3678.3
	SCC	Channel	55390	56015	56640
		Frequency	3565	3627.5	3690
20 + 5	PCC	Channel	55340	55965	56590
		Frequency	3560	3622.5	3685
	SCC	Channel	55457	56082	56707
		Frequency	3571.7	3634.2	3696.7
10 + 20	PCC	Channel	55295	55896	56496
		Frequency	3555.5	3615.6	3675.6
	SCC	Channel	55439	56040	56640
		Frequency	3569.9	3630	3690
20 + 10	PCC	Channel	55340	55941	56541
		Frequency	3560	3620.1	3680.1
	SCC	Channel	55484	56085	56685
		Frequency	3574.4	3634.5	3694.5
15 + 20	PCC	Channel	55318	55893	56469
		Frequency	3557.8	3615.3	3672.9
	SCC	Channel	55489	56064	56640
		Frequency	3574.9	3632.4	3690
20 + 15	PCC	Channel	55340	55916	56491
		Frequency	3560	3617.6	3675.1
	SCC	Channel	55511	56087	56662
		Frequency	3577.1	3634.7	3692.2
20 +20	PCC	Channel	55340	55891	56442
		Frequency	3560	3615.1	3670.2
	SCC	Channel	55538	56089	56640
		Frequency	3579.8	3634.9	3690

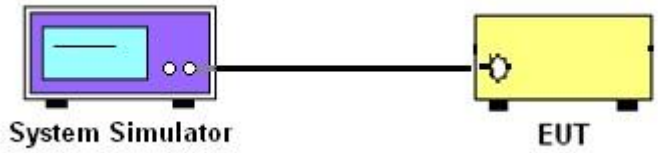
3 Conducted Test Items

3.1 Measuring Instruments

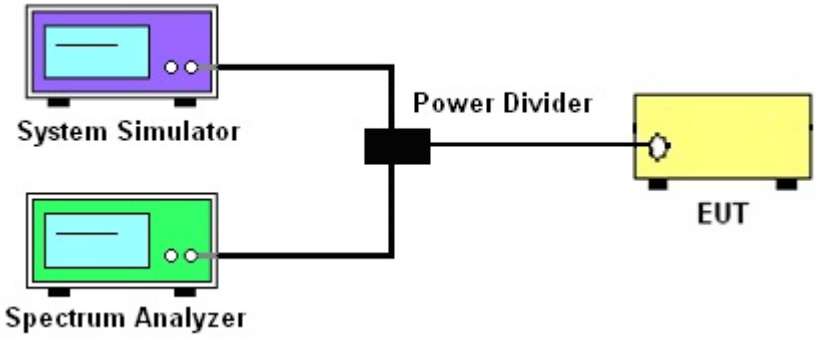
See list of measuring instruments of this test report.

3.1.1 Test Setup

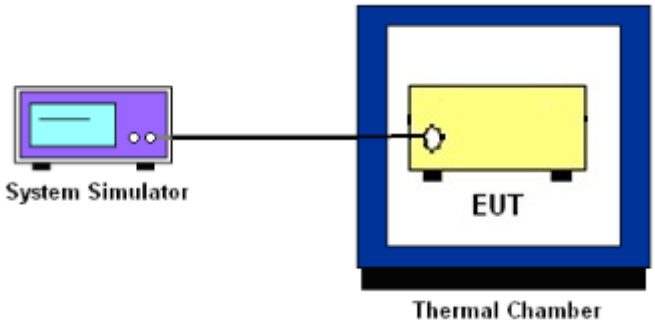
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power Measurement

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

3.2.2 Test Procedures

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

3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

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

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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

3.4 EIRP and PSD

3.4.1 Description of the EIRP and PSD Measurement

EIRP and PSD limits for CBRS equipment as below table:

Device		Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
☐	**End User Device**	23	n/a
☐	**Category A CBSD**	30	20
Applied	**Category B CBSD**	47	37

Remark:

1. The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz)
2. Maximum PSD values are radiated. Measurements can be done conducted and add antenna gain back in.

3.4.2 Test Procedures for EIRP

1. Establishing a communications link with the call box (Base station) to measure the Maximum conducted power, the parameters were set to force the EUT transmitting at maximum output power level. Use the average power measurement function to measure total channel power of each channel bandwidth (per ANSI C63.26-2015 Section 5.2.1)

2. Determining ERP and/or EIRP from conducted RF output power measurements (Per ANSI C63.26-2015 Section 5.2.5.5)

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

   P_T = transmitter output power in dBm

   G_T = gain of the transmitting antenna in dBi

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

3.4.3 Test Procedures for EIRP PSD

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 2 times the OBW.
3. Set the RBW to the specified reference bandwidth (often 1 MHz).
4. Set VBW ≥ 3 × RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep ≥ 2 × span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).
10. Determine the EIRP by adding the effective antenna gain to the adjusted power level.
11. Add 10 log (1/duty cycle) to the measured power level to compute the average power during continuous transmission.

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

EIRP = $P_T + G_T – L_C$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.5 Occupied Bandwidth

3.5.1 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.

3.5.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

Part 96.41 (e) (1) (i)

For CBSD the emission limits outside the fundamental are as follows:

Within 0 MHz to 10 MHz above and below the assigned channel ≤ −13 dBm/MHz

Greater than 10 MHz above and below the assigned channel ≤ −25 dBm/MHz

Part 96.41 (e) (2)

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
5. Offset has included the duty factor for LTE Band 48. Duty factor =10 log (1/x), where x is the measured duty cycle.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is −40dBm/MHz.

3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

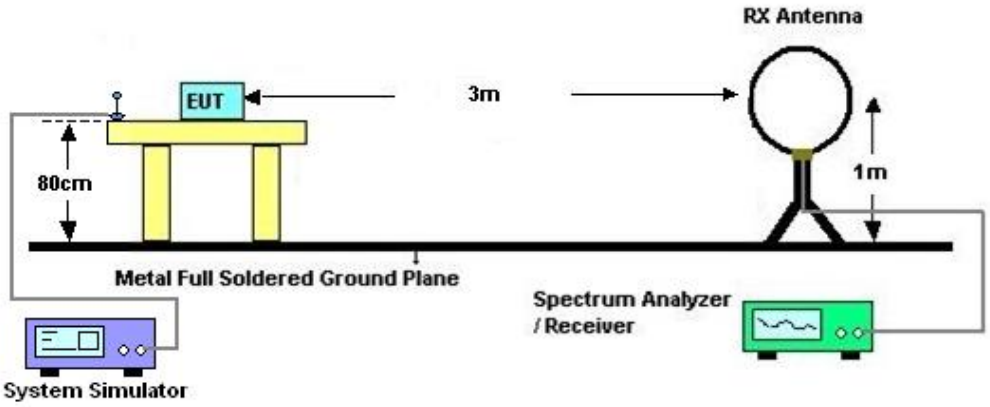
4 Radiated Test Items

4.1 Measuring Instruments

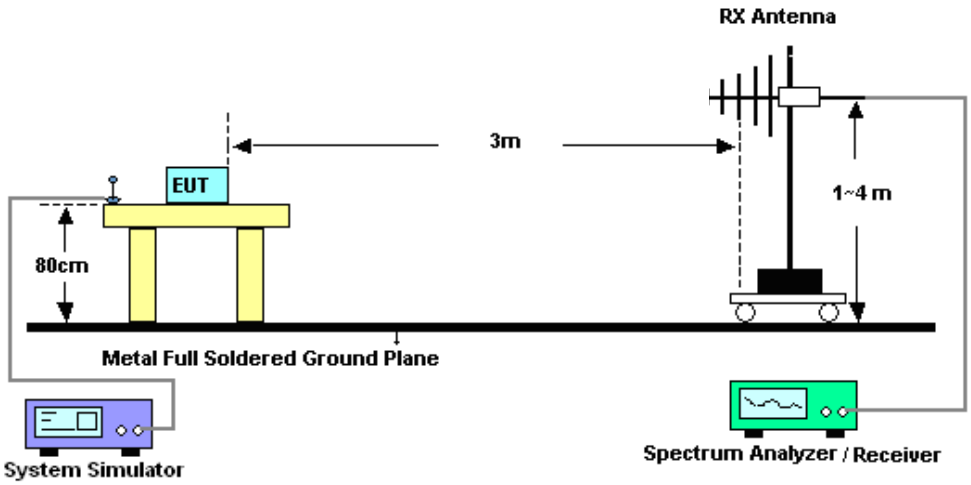
See list of measuring instruments of this test report.

4.2 Test Setup

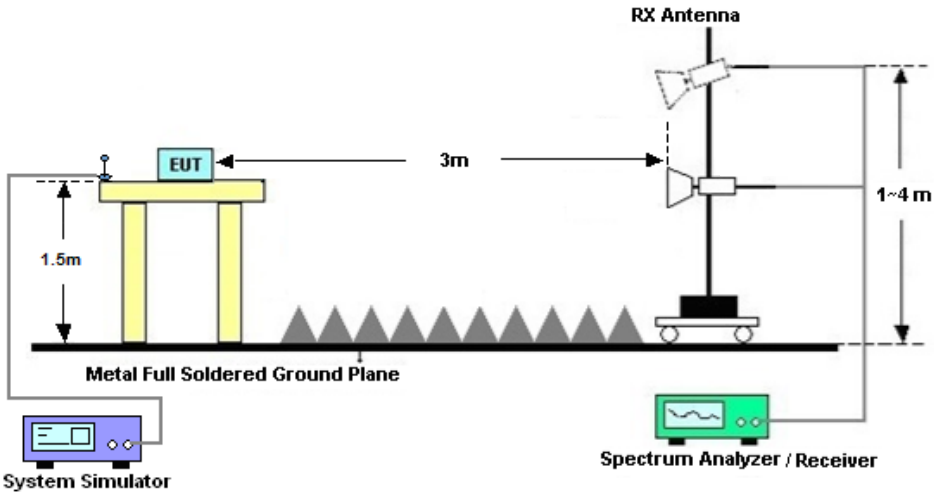
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26-2015.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz.

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

4.4.2 Test Procedures

1. 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.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
   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
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
   The limit line is −40dBm/MHz

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. 13, 2021	Jan. 04, 2023~ Jan. 13, 2023	Oct. 12, 202	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 25, 2022	Jan. 04, 2023~ Jan. 13, 2023	Aug. 24, 2023	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Jan. 04, 2023~ Jan. 13, 2023	Jul. 14, 2023	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	Dec. 19, 2022	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Dec. 19, 2022	Oct. 15, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 24, 2022	Dec. 19, 2022	May 23, 2023	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Jan. 05, 2022	Dec. 19, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Dec. 19, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 05, 2022	Dec. 19, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2022	Dec. 19, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 12, 2022	Dec. 19, 2022	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 12, 2022	Dec. 19, 2022	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 19, 2022	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 19, 2022	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 19, 2022	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz)

LTE Band 48-Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				55340	55990	56640			
Frequency (MHz)				3560	3625	3690	L	M	H
20	QPSK	1	0	22.99	23.69	22.82	1.0162	1.1940	0.9772
20	QPSK	1	99	23.04	23.44	22.80	1.0280	1.1272	0.9727
20	QPSK	100	0	21.83	22.53	21.68	0.7780	0.9141	0.7516
20	16QAM	1	0	22.06	22.88	21.88	0.8204	0.9908	0.7870
20	64QAM	1	0	20.58	21.31	20.40	0.5834	0.6902	0.5598
Channel				55315	55990	56665	EIRP(W)		
Frequency (MHz)				3557.5	3625	3692.5	L	M	H
15	QPSK	1	0	22.89	23.34	22.60	0.9931	1.1015	0.9290
15	16QAM	1	0	21.87	22.39	21.61	0.7852	0.8851	0.7396
Channel				55290	55990	56690	EIRP(W)		
Frequency (MHz)				3555	3625	3695	L	M	H
10	QPSK	1	0	22.83	23.31	22.51	0.9795	1.0940	0.9099
10	16QAM	1	0	21.78	22.34	21.52	0.7691	0.8750	0.7244
Channel				55265	55990	56715	EIRP(W)		
Frequency (MHz)				3552.5	3625	3697.5	L	M	H
5	QPSK	1	0	22.21	22.37	21.66	0.8492	0.8810	0.7482
5	16QAM	1	0	21.18	21.46	20.93	0.6699	0.7145	0.6324

Antenna Gain = 7.08dBi

LTE Band 48 UL MIMO-Ant 0+ Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				55340	55990	56640	L	M	H
Frequency (MHz)				3560	3625	3690			
20	QPSK	1	0	22.38	22.78	22.64	0.8825	0.9694	0.9372
20	QPSK	1	99	22.49	22.41	21.89	0.9049	0.8899	0.7880
20	QPSK	100	0	21.86	21.52	21.53	0.7843	0.7247	0.7256
20	16QAM	1	0	21.38	21.51	21.61	0.7015	0.7223	0.7392
20	64QAM	1	0	20.71	21.04	20.81	0.6014	0.6480	0.6149
Channel				55315	55990	56665	L	M	H
Frequency (MHz)				3557.5	3625	3692.5			
15	QPSK	1	0	22.50	22.39	22.35	0.9071	0.8843	0.8772
15	16QAM	1	0	21.74	21.64	21.72	0.7621	0.7448	0.7593
15	QPSK	1	74	22.10	21.92	22.13	0.8274	0.7941	0.8334
15	QPSK	75	0	21.77	21.48	21.78	0.7681	0.7172	0.7691
Channel				55290	55990	56690	L	M	H
Frequency (MHz)				3555	3625	3695			
10	QPSK	1	0	22.62	22.53	22.21	0.9333	0.9132	0.8483
10	16QAM	1	0	21.80	21.74	21.69	0.7728	0.7621	0.7532
10	QPSK	1	49	22.38	22.05	22.04	0.8834	0.8180	0.8171
10	QPSK	50	0	21.52	21.46	21.66	0.7238	0.7148	0.7489
Channel				55265	55990	56715	L	M	H
Frequency (MHz)				3552.5	3625	3697.5			
5	QPSK	1	0	21.66	21.34	21.66	0.7478	0.6952	0.7486
5	16QAM	1	0	21.46	21.31	21.38	0.7153	0.6902	0.7017
5	QPSK	1	24	21.48	21.19	21.57	0.7181	0.6710	0.7321
5	QPSK	25	0	21.41	21.34	21.39	0.7057	0.6950	0.7029

Directional Gain = 7.08dBi (completely uncorrelated)

LTE Band 48B-Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				L	M	H	L	M	H
10+10	QPSK	1RB01RBMAX		13.54	13.36	13.53	0.1153	0.1107	0.1151
	QPSK	1RBMAX1RB0		23.48	23.28	23.31	1.1376	1.0864	1.0940
	QPSK	FULL		21.69	21.32	21.46	0.7534	0.6918	0.7145
	16QAM	1RB01RBMAX		13.61	13.51	13.61	0.1172	0.1146	0.1172
	16QAM	1RBMAX1RB0		22.62	22.36	22.35	0.9333	0.8790	0.8770
	16QAM	FULL		20.58	20.34	20.50	0.5834	0.5521	0.5728
	64QAM	1RB01RBMAX		13.20	13.10	13.22	0.1067	0.1042	0.1072
	64QAM	1RBMAX1RB0		20.09	19.91	19.92	0.5212	0.5000	0.5012
	64QAM	FULL		20.53	20.30	20.44	0.5768	0.5470	0.5649

Antenna Gain = 7.08dBi

LTE Band 48C-Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				L	M	H	L	M	H
20+20	QPSK	1RB01RBMAX		15.12	14.96	15.59	0.1660	0.1600	0.1849
	QPSK	1RBMAX1RB0		23.45	22.94	23.11	1.1298	1.0046	1.0447
	QPSK	FULL		21.27	21.18	21.29	0.6839	0.6699	0.6871
	16QAM	1RB01RBMAX		15.18	15.06	15.66	0.1683	0.1637	0.1879
	16QAM	1RBMAX1RB0		22.60	22.36	22.48	0.9290	0.8790	0.9036
	16QAM	FULL		20.21	20.17	20.28	0.5358	0.5309	0.5445
	64QAM	1RB01RBMAX		14.76	14.64	15.24	0.1528	0.1486	0.1706
	64QAM	1RBMAX1RB0		19.98	19.61	19.73	0.5082	0.4667	0.4797
	64QAM	FULL		20.17	20.12	20.38	0.5309	0.5248	0.5572
20+15	QPSK	1RB01RBMAX		15.07	15.07	15.53	0.1641	0.1641	0.1824
	QPSK	1RBMAX1RB0		23.22	22.91	23.04	1.0715	0.9977	1.0280
	QPSK	FULL		21.22	21.03	21.23	0.6761	0.6471	0.6776
	16QAM	1RB01RBMAX		15.16	15.16	15.62	0.1675	0.1675	0.1862
	16QAM	1RBMAX1RB0		22.30	22.02	22.17	0.8670	0.8128	0.8414
	16QAM	FULL		20.24	20.01	20.33	0.5395	0.5117	0.5508
	64QAM	1RB01RBMAX		14.75	14.74	15.21	0.1524	0.1521	0.1694
	64QAM	1RBMAX1RB0		19.96	19.64	19.67	0.5058	0.4699	0.4732
	64QAM	FULL		20.22	19.99	20.30	0.5370	0.5093	0.5470
20+10	QPSK	1RB01RBMAX		15.31	15.05	15.51	0.1734	0.1633	0.1816
	QPSK	1RBMAX1RB0		23.44	22.98	23.18	1.1272	1.0139	1.0617
	QPSK	FULL		21.36	21.11	21.31	0.6982	0.6592	0.6902
	16QAM	1RB01RBMAX		15.39	15.18	15.62	0.1766	0.1683	0.1862
	16QAM	1RBMAX1RB0		22.56	22.07	22.24	0.9204	0.8222	0.8551

	16QAM	FULL	20.28	20.08	20.35	0.5445	0.5200	0.5534
	64QAM	1RB01RBMAX	14.98	14.80	15.21	0.1607	0.1542	0.1694
	64QAM	1RBMAX1RB0	20.10	19.62	19.74	0.5224	0.4677	0.4808
	64QAM	FULL	20.25	20.03	20.32	0.5408	0.5140	0.5495
20+5	QPSK	1RB01RBMAX	15.16	15.13	15.33	0.1675	0.1663	0.1742
	QPSK	1RBMAX1RB0	23.14	22.65	22.96	1.0520	0.9397	1.0093
	QPSK	FULL	21.36	21.12	21.26	0.6982	0.6607	0.6823
	16QAM	1RB01RBMAX	15.25	15.22	15.50	0.1710	0.1698	0.1811
	16QAM	1RBMAX1RB0	22.52	21.97	22.22	0.9120	0.8035	0.8511
	16QAM	FULL	20.36	20.14	20.25	0.5546	0.5272	0.5408
	64QAM	1RB01RBMAX	14.86	14.80	15.08	0.1563	0.1542	0.1644
	64QAM	1RBMAX1RB0	20.07	19.56	19.69	0.5188	0.4613	0.4753
	64QAM	FULL	20.35	20.12	20.25	0.5534	0.5248	0.5408
15+20	QPSK	1RB01RBMAX	15.01	14.91	15.43	0.1618	0.1581	0.1782
	QPSK	1RBMAX1RB0	23.32	22.88	20.89	1.0965	0.9908	0.6266
	QPSK	FULL	21.21	21.07	21.18	0.6745	0.6531	0.6699
	16QAM	1RB01RBMAX	15.09	14.99	15.53	0.1648	0.1611	0.1824
	16QAM	1RBMAX1RB0	22.32	21.99	22.05	0.8710	0.8072	0.8185
	16QAM	FULL	20.14	20.04	20.17	0.5272	0.5152	0.5309
	64QAM	1RB01RBMAX	14.70	14.58	15.12	0.1507	0.1466	0.1660
	64QAM	1RBMAX1RB0	19.99	19.55	19.64	0.5093	0.4603	0.4699
	64QAM	FULL	20.13	20.02	20.15	0.5260	0.5129	0.5284
10+20	QPSK	1RB01RBMAX	15.05	14.86	15.23	0.1633	0.1563	0.1702
	QPSK	1RBMAX1RB0	23.37	23.01	22.99	1.1092	1.0209	1.0162
	QPSK	FULL	21.28	21.04	21.26	0.6855	0.6486	0.6823
	16QAM	1RB01RBMAX	15.13	14.93	15.33	0.1663	0.1589	0.1742
	16QAM	1RBMAX1RB0	22.39	22.07	22.15	0.8851	0.8222	0.8375
	16QAM	FULL	20.28	20.04	20.29	0.5445	0.5152	0.5458
	64QAM	1RB01RBMAX	14.72	14.60	14.92	0.1514	0.1472	0.1585
	64QAM	1RBMAX1RB0	20.07	19.61	19.69	0.5188	0.4667	0.4753
	64QAM	FULL	20.24	20.03	20.23	0.5395	0.5140	0.5383
5+20	QPSK	1RB01RBMAX	15.01	14.91	15.21	0.1618	0.1581	0.1694
	QPSK	1RBMAX1RB0	22.82	22.50	22.62	0.9772	0.9078	0.9333
	QPSK	FULL	21.42	21.24	21.23	0.7079	0.6792	0.6776
	16QAM	1RB01RBMAX	15.43	15.00	16.33	0.1782	0.1614	0.2193
	16QAM	1RBMAX1RB0	22.48	22.01	22.02	0.9036	0.8110	0.8128
	16QAM	FULL	20.34	20.18	20.23	0.5521	0.5321	0.5383
	64QAM	1RB01RBMAX	15.00	14.59	14.93	0.1614	0.1469	0.1589
	64QAM	1RBMAX1RB0	20.02	19.48	19.67	0.5129	0.4529	0.4732
	64QAM	FULL	20.35	20.18	20.25	0.5534	0.5321	0.5408

Antenna Gain = 7.08dBi

Limit	**47dBm /10MHz**
Result	**Pass**

LTE Band 48

EIRP PSD Density

1RB0

Mode	LTE Band 48 : EIRP PSD Density (dBm/MHz)							
BW	5MHz				10MHz			
Mod.	QPSK	16QAM	64QAM		QPSK	16QAM	64QAM	
Lowest CH	28.21	27.08	26.6		28.85	28.1	27.1	
Middle CH	28.64	27.64	26.68		29.66	28.44	27.29	
Highest CH	27.75	27.3	26.25		28.72	27.58	26.85	
BW	15MHz				20MHz			
Mod.	QPSK	16QAM	64QAM		QPSK	16QAM	64QAM	
Lowest CH	28.63	28.05	26.64		28.93	27.94	26.91	
Middle CH	29.49	28.64	27.38		29.49	28.8	27.45	
Highest CH	28.82	28	26.94		28.56	27.94	26.64	
Limit	37dBm /MHz							
Result	Pass							

1RB MAX

Mode	LTE Band 48 : EIRP PSD Density (dBm/MHz)							
BW	5MHz				10MHz			
Mod.	QPSK	16QAM	64QAM		QPSK	16QAM	64QAM	
Lowest CH	28.19	27.32	26.45		29.26	28.58	27.23	
Middle CH	28.54	28.03	26.94		29.66	28.6	27.46	
Highest CH	27.85	27.38	26.25		28.84	27.97	27.07	
BW	15MHz				20MHz			
Mod.	QPSK	16QAM	64QAM		QPSK	16QAM	64QAM	
Lowest CH	28.9	28.08	27.32		29.13	27.82	27.09	
Middle CH	29.17	28.53	27.11		29.43	28.49	27.72	
Highest CH	28.46	28.26	26.89		28.9	27.62	26.63	
Limit	37dBm /MHz							
Result	pass							

FULL RB

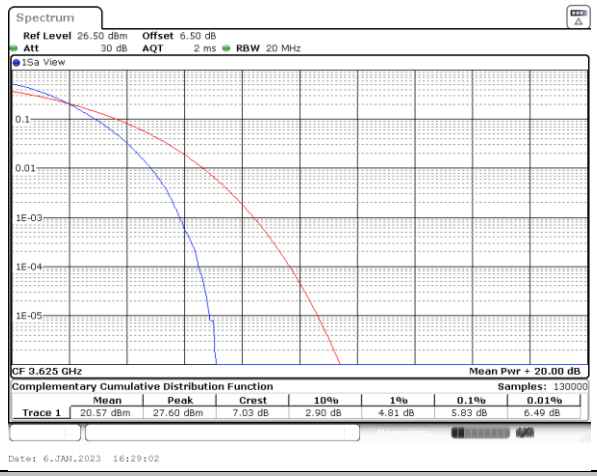
Mode	LTE Band 48 : EIRP PSD Density (dBm/MHz)							
BW	5MHz				10MHz			
Mod.	QPSK	16QAM	64QAM		QPSK	16QAM	64QAM	
Lowest CH	23.05	23.45	23.32		19.37	18.39	17.44	
Middle CH	22.75	21.92	21.11		19.82	18.8	17.97	
Highest CH	22.48	21.52	20.48		19.07	18.43	17.41	
BW	15MHz				20MHz			
Mod.	QPSK	16QAM	64QAM		QPSK	16QAM	64QAM	
Lowest CH	17.43	16.61	15.59		16.65	15.83	14.75	
Middle CH	18.03	17.08	16.2		17.1	16.15	15.09	
Highest CH	17.4	16.55	15.61		16.34	15.55	14.91	
Limit	37dBm /MHz							
Result	Pass							

Peak-to-Average Ratio

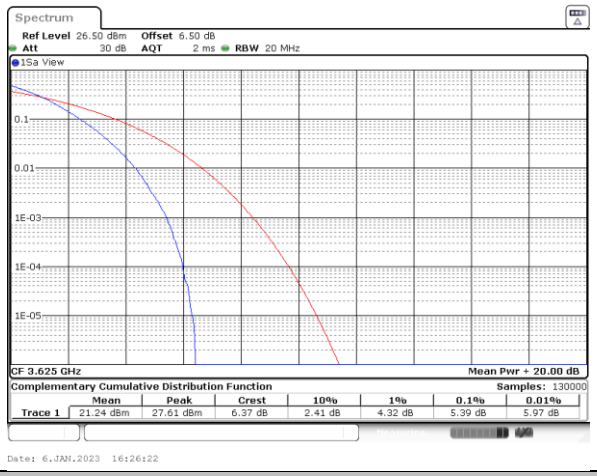
Mode	LTE Band 48 / 20MHz				
Mod.	QPSK	16QAM	64QAM		Limit: 13dB
RB Size	Full RB				Result
Middle CH	5.83	5.39	5.65		PASS

LTE Band 48 / 20MHz / Full RB / Middle Channel

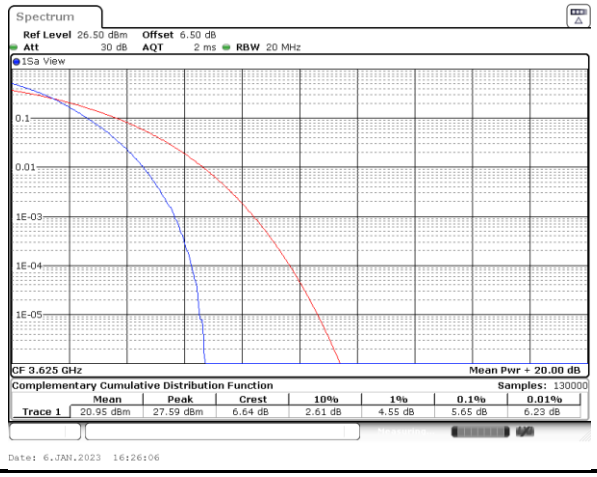
QPSK



16QAM

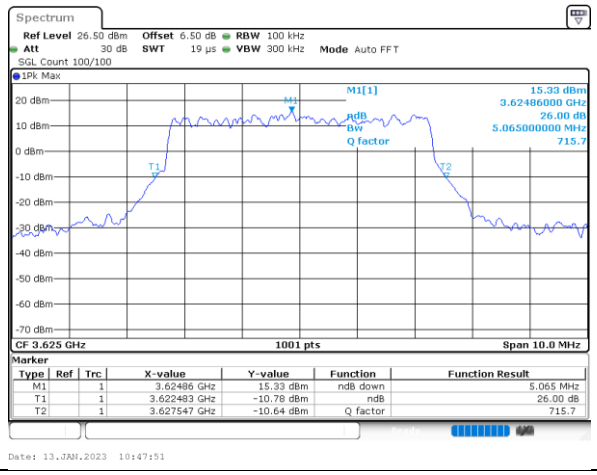
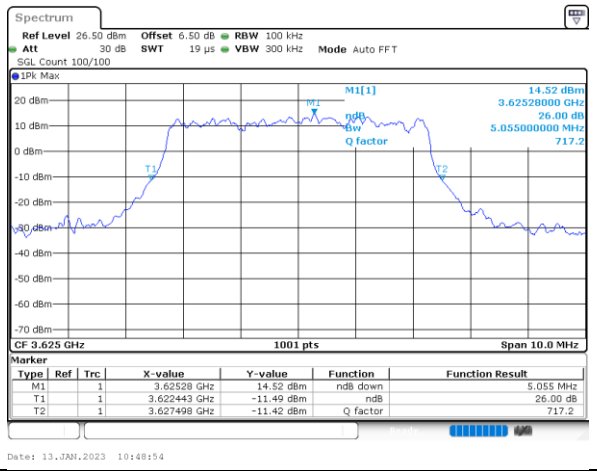


64QAM



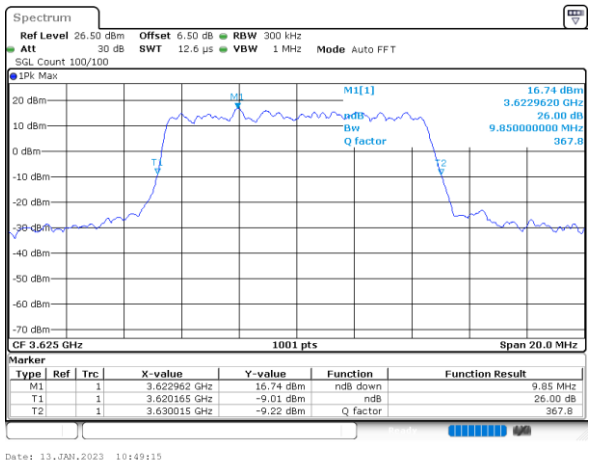
26dB Bandwidth

Mode	LTE Band 48 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.07	5.06
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.85	9.63
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.21	14.15
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.66	18.98

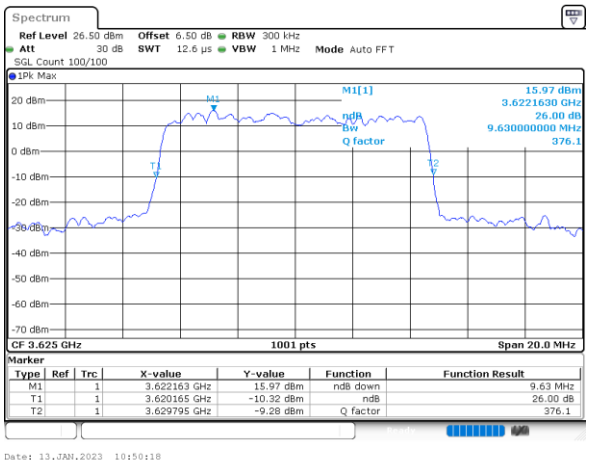
LTE Band 48 5MHz / Middle channel / Full RB	
QPSK	16QAM
	

LTE Band 48 10MHz / Middle channel / Full RB

QPSK

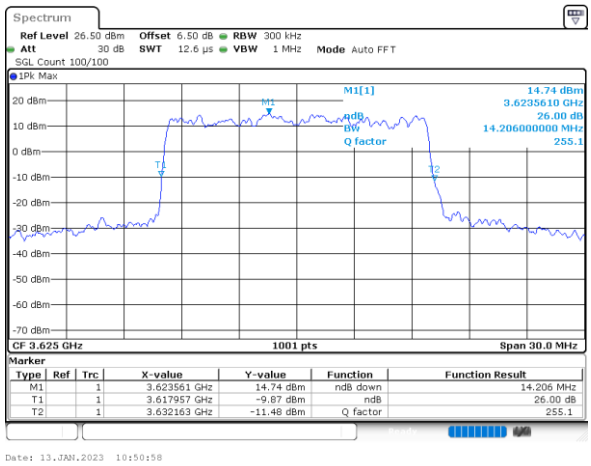


16QAM

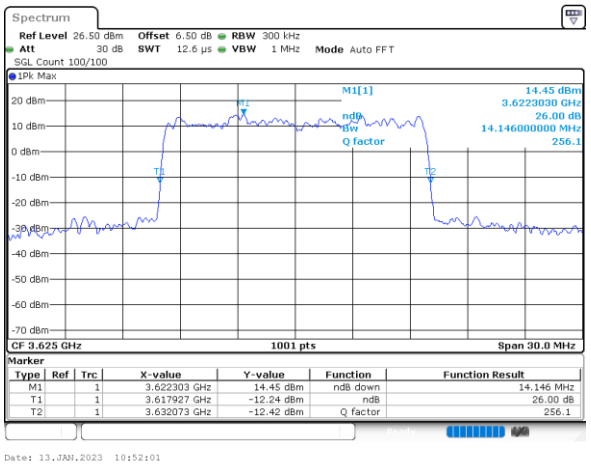


LTE Band 48 15MHz / Middle channel / Full RB

QPSK

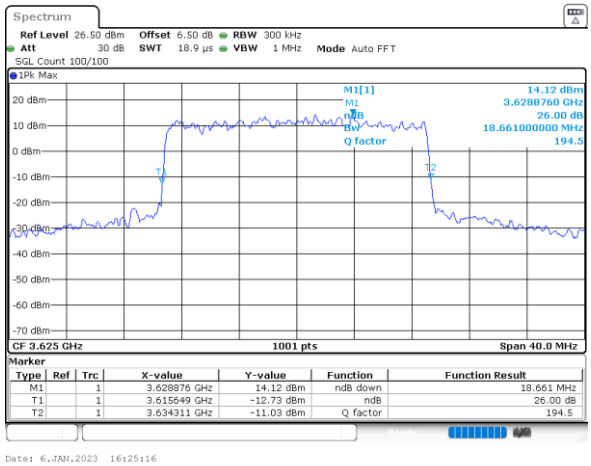


16QAM

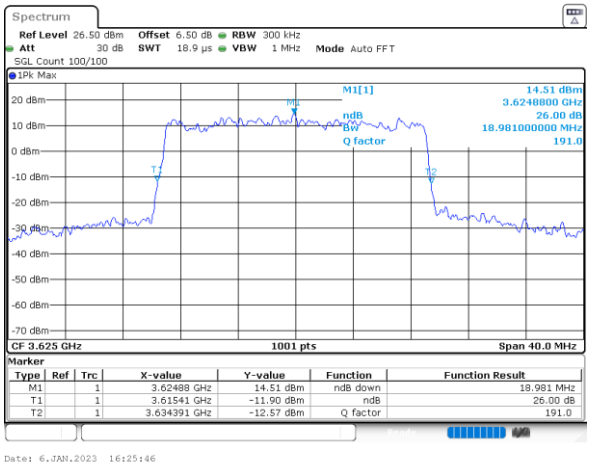


LTE Band 48 20MHz / Middle channel / Full RB

QPSK

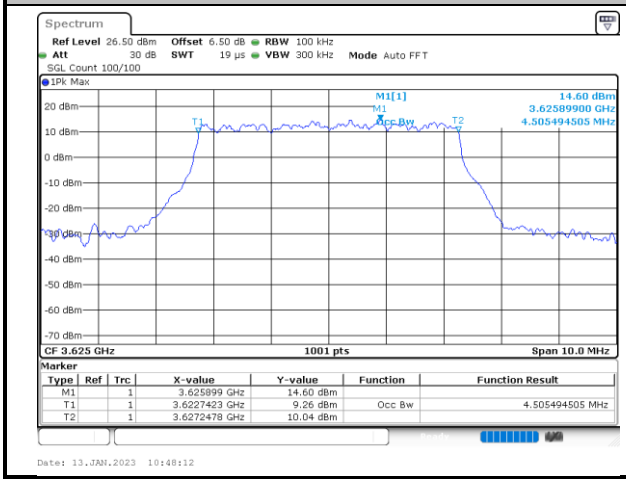
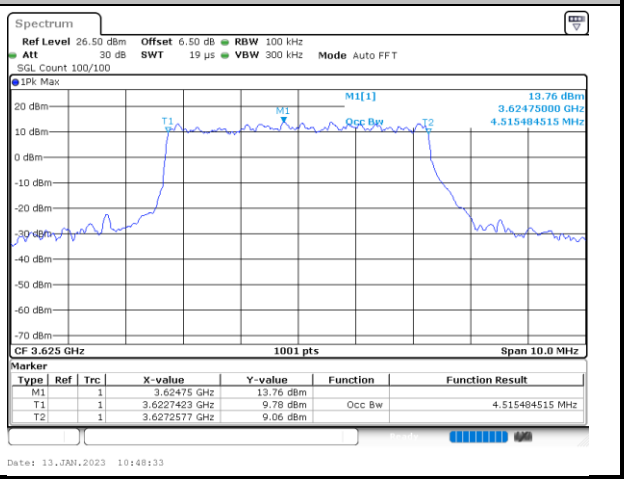


16QAM



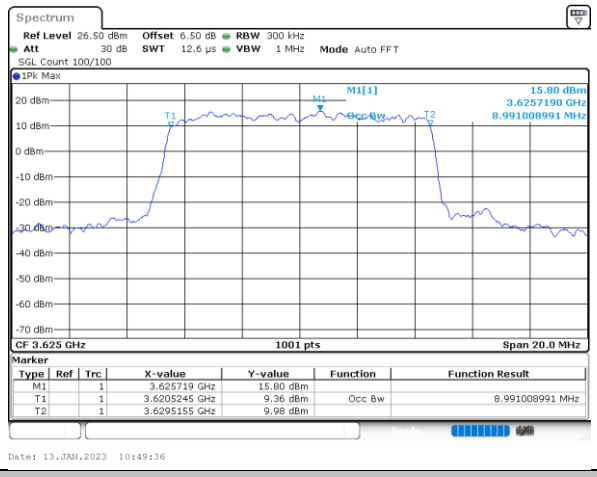
Occupied Bandwidth

Mode	LTE Band 48 : 99%OBW(MHz)	
BW	5MHZ	
Mod.	QPAK	16QAM
Middle CH	4.51	4.52
BW	10MHZ	
Mod.	QPAK	16QAM
Middle CH	8.99	9.07
BW	15MHZ	
Mod.	QPAK	16QAM
Middle CH	13.46	13.40
BW	20MHZ	
Mod.	QPAK	16QAM
Middle CH	17.82	17.86

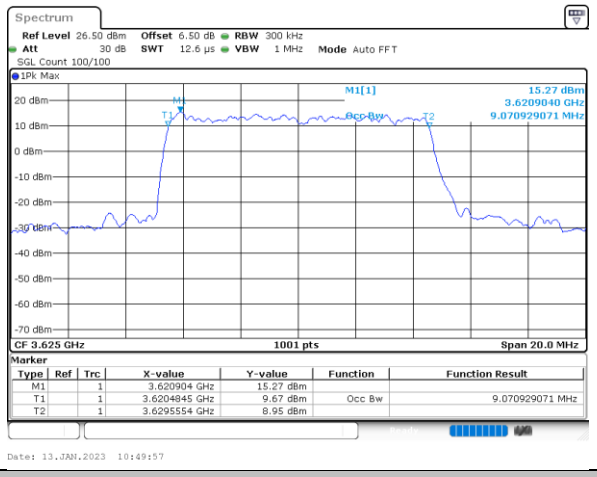
LTE Band 48 5MHz / Middle Channel / Full RB	
QPSK	16QAM
	

LTE Band 48 10MHz / Middle Channel / Full RB

QPSK

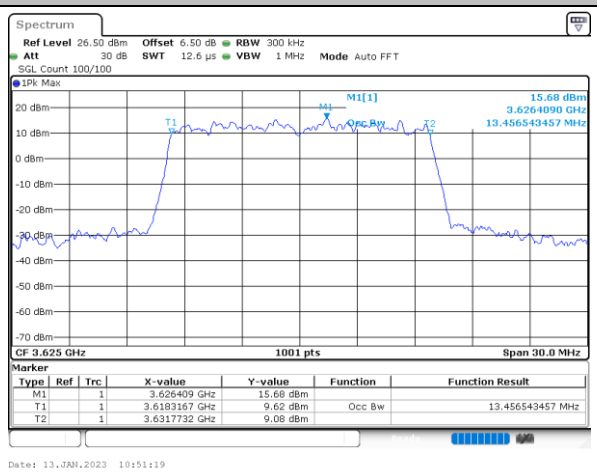


16QAM

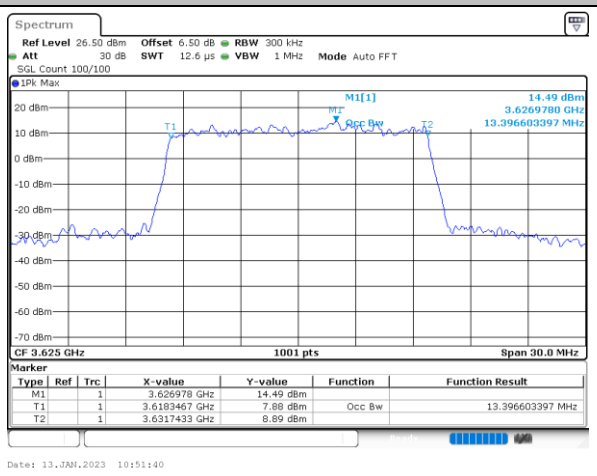


LTE Band 48 15MHz / Middle Channel / Full RB

QPSK

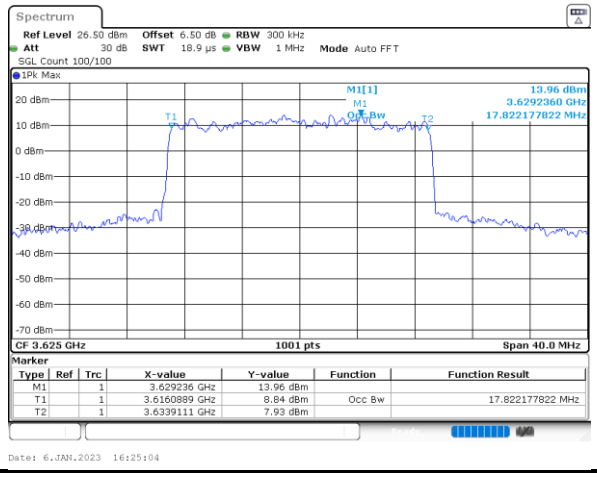


16QAM

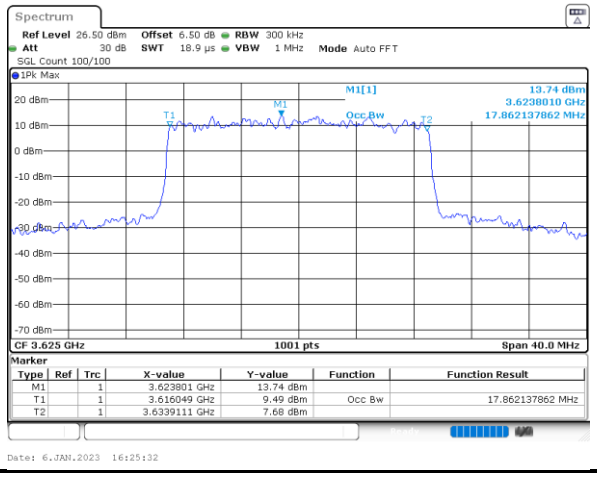


LTE Band 48 20MHz / Middle Channel / Full RB

QPSK



16QAM

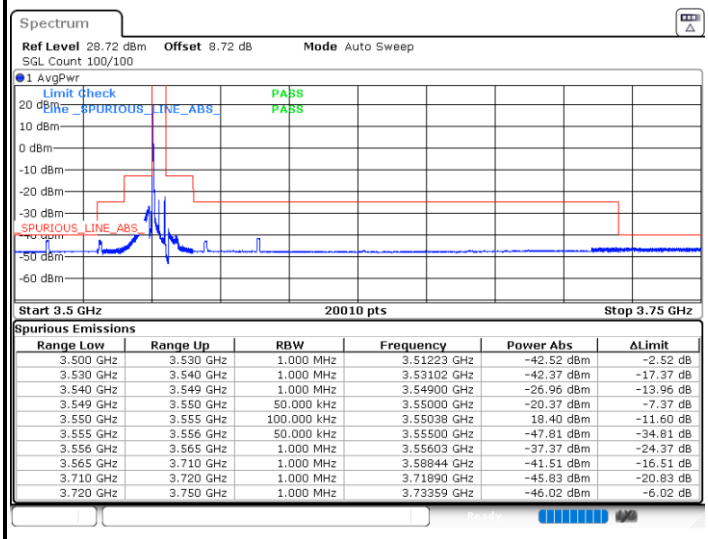


Conducted Band Edge

LTE Band 48 / 5MHz

QPSK

Lowest Channel / 1RB0

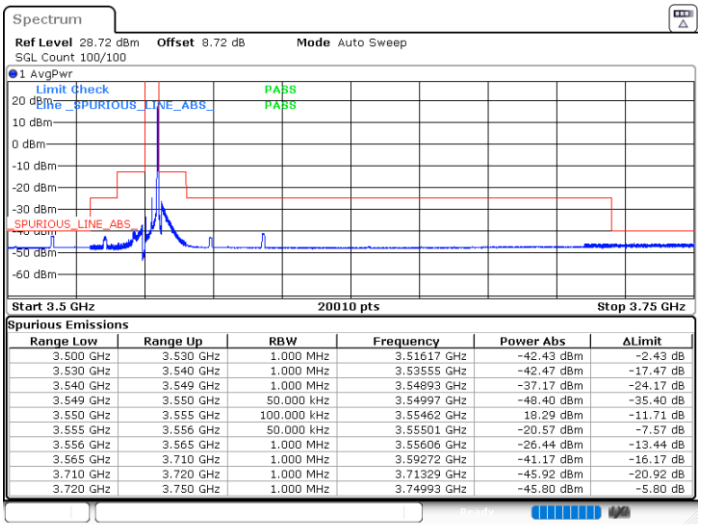


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51223 GHz	-42.52 dBm	-2.52 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53102 GHz	-42.37 dBm	-17.37 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54900 GHz	-26.96 dBm	-13.96 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.55000 GHz	-20.37 dBm	-7.37 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55038 GHz	18.40 dBm	-11.60 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55500 GHz	-47.81 dBm	-34.81 dB
3.556 GHz	3.565 GHz	1.000 MHz	3.55603 GHz	-37.37 dBm	-24.37 dB
3.565 GHz	3.710 GHz	1.000 MHz	3.58844 GHz	-41.51 dBm	-16.51 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71890 GHz	-45.83 dBm	-20.83 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73359 GHz	-46.02 dBm	-6.02 dB

Date: 6.JAN.2023 10:23:43

Lowest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51617 GHz	-42.43 dBm	-2.43 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53555 GHz	-42.47 dBm	-17.47 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54893 GHz	-37.17 dBm	-24.17 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.54997 GHz	-48.40 dBm	-35.40 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55462 GHz	18.29 dBm	-11.71 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55501 GHz	-20.57 dBm	-7.57 dB
3.556 GHz	3.565 GHz	1.000 MHz	3.55606 GHz	-26.44 dBm	-13.44 dB
3.565 GHz	3.710 GHz	1.000 MHz	3.59272 GHz	-41.17 dBm	-16.17 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71329 GHz	-45.92 dBm	-20.92 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74993 GHz	-45.80 dBm	-5.80 dB

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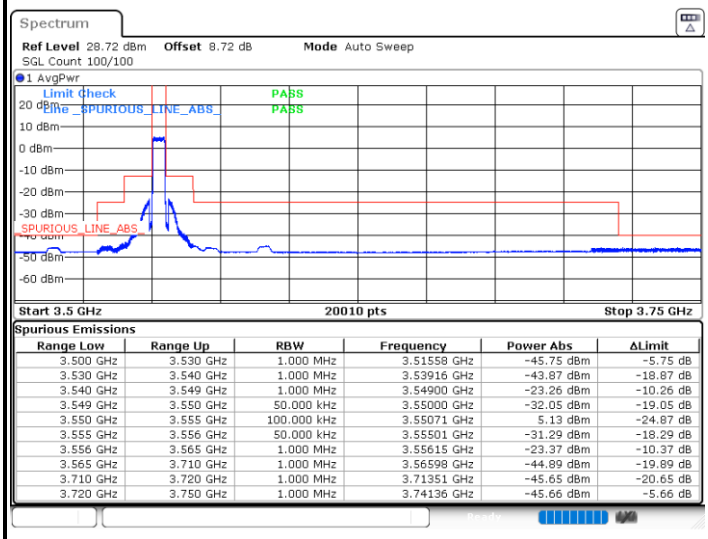
Lowest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51558 GHz	-45.75 dBm	-5.75 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53916 GHz	-43.87 dBm	-18.87 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54900 GHz	-23.26 dBm	-10.26 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.55000 GHz	-32.05 dBm	-19.05 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55071 GHz	5.13 dBm	-24.87 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55501 GHz	-31.29 dBm	-18.29 dB
3.556 GHz	3.565 GHz	1.000 MHz	3.55615 GHz	-23.37 dBm	-10.37 dB
3.565 GHz	3.710 GHz	1.000 MHz	3.56598 GHz	-44.89 dBm	-19.89 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71351 GHz	-45.65 dBm	-20.65 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74136 GHz	-45.66 dBm	-5.66 dB

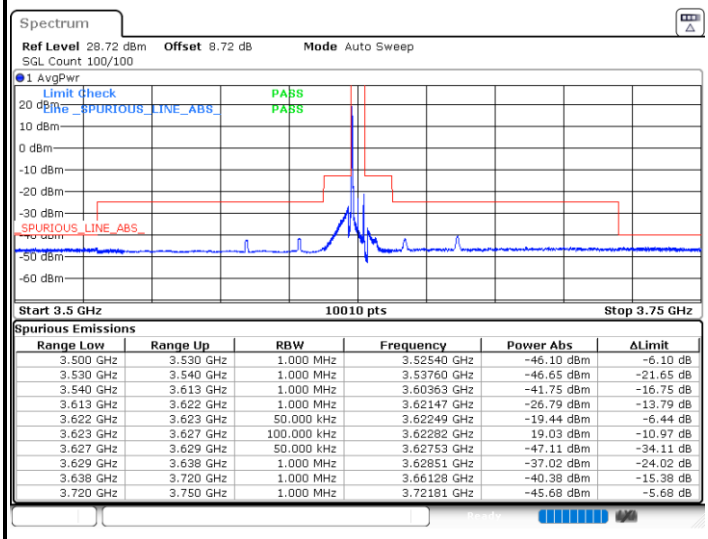
Date: 6.JAN.2023 10:33:48

N/A

LTE Band 48 / 5MHz

QPSK

Middle Channel / 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52540 GHz	-46.10 dBm	-6.10 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53760 GHz	-46.65 dBm	-21.65 dB
3.540 GHz	3.613 GHz	1.000 MHz	3.60363 GHz	-41.75 dBm	-16.75 dB
3.613 GHz	3.622 GHz	1.000 MHz	3.62147 GHz	-26.79 dBm	-13.79 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62249 GHz	-19.44 dBm	-6.44 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62282 GHz	19.03 dBm	-10.97 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62753 GHz	-47.11 dBm	-34.11 dB
3.629 GHz	3.638 GHz	1.000 MHz	3.62851 GHz	-37.02 dBm	-24.02 dB
3.638 GHz	3.720 GHz	1.000 MHz	3.66128 GHz	-40.38 dBm	-15.38 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72181 GHz	-45.68 dBm	-5.68 dB

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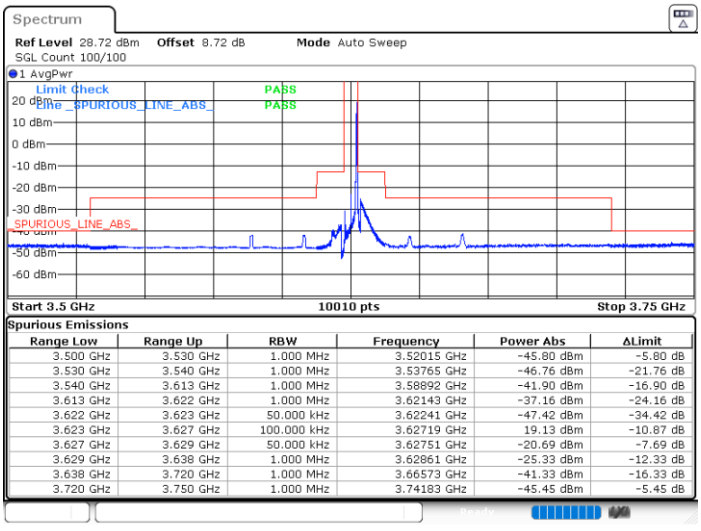
Middle Channel / 1RBmax

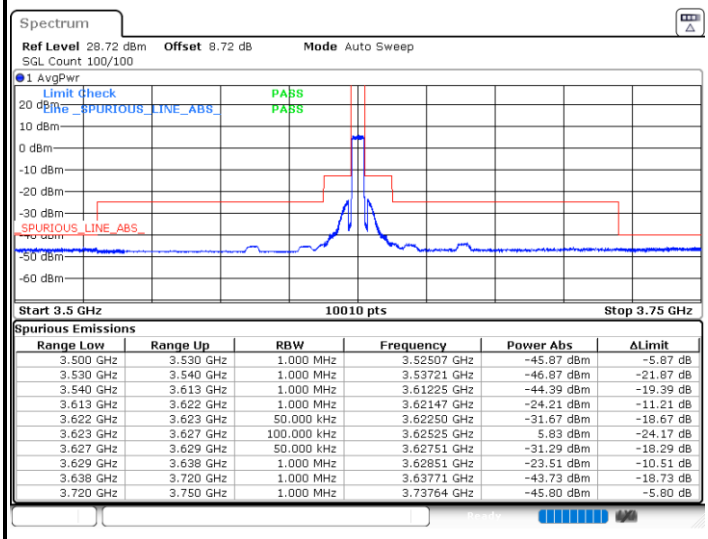


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52015 GHz	-45.80 dBm	-5.80 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53765 GHz	-46.76 dBm	-21.76 dB
3.540 GHz	3.613 GHz	1.000 MHz	3.58892 GHz	-41.90 dBm	-16.90 dB
3.613 GHz	3.622 GHz	1.000 MHz	3.62143 GHz	-37.16 dBm	-24.16 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62241 GHz	-47.42 dBm	-34.42 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62719 GHz	19.13 dBm	-10.87 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62751 GHz	-20.69 dBm	-7.69 dB
3.629 GHz	3.638 GHz	1.000 MHz	3.62861 GHz	-25.33 dBm	-12.33 dB
3.638 GHz	3.720 GHz	1.000 MHz	3.66573 GHz	-41.33 dBm	-16.33 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74183 GHz	-45.45 dBm	-5.45 dB

Date: 6.JAN.2023 10:47:13

Middle Channel / Full



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52507 GHz	-45.87 dBm	-5.87 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53721 GHz	-46.87 dBm	-21.87 dB
3.540 GHz	3.613 GHz	1.000 MHz	3.61225 GHz	-44.39 dBm	-19.39 dB
3.613 GHz	3.622 GHz	1.000 MHz	3.62147 GHz	-24.21 dBm	-11.21 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62250 GHz	-31.67 dBm	-18.67 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62525 GHz	5.83 dBm	-24.17 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62751 GHz	-31.29 dBm	-18.29 dB
3.629 GHz	3.638 GHz	1.000 MHz	3.62851 GHz	-23.51 dBm	-10.51 dB
3.638 GHz	3.720 GHz	1.000 MHz	3.63771 GHz	-43.73 dBm	-18.73 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73764 GHz	-45.80 dBm	-5.80 dB

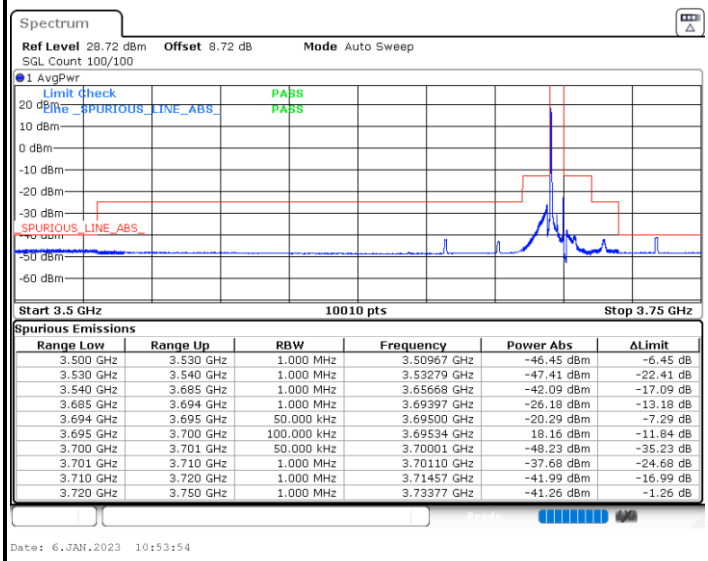
Date: 6.JAN.2023 10:48:53

N/A

LTE Band 48 / 5MHz

QPSK

Highest Channel / 1RB0

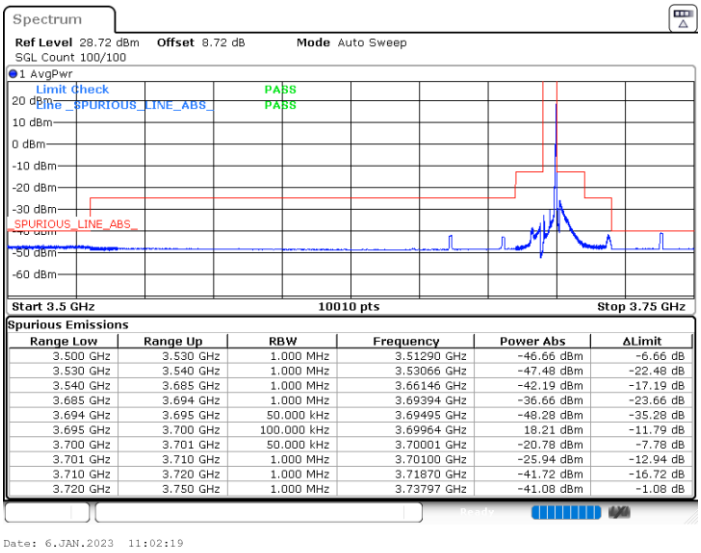


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50967 GHz	-46.45 dBm	-6.45 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53279 GHz	-47.41 dBm	-22.41 dB
3.540 GHz	3.685 GHz	1.000 MHz	3.65668 GHz	-42.09 dBm	-17.09 dB
3.685 GHz	3.694 GHz	1.000 MHz	3.69397 GHz	-26.18 dBm	-13.18 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69500 GHz	-20.29 dBm	-7.29 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69534 GHz	18.16 dBm	-11.84 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70001 GHz	-48.23 dBm	-35.23 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70110 GHz	-37.68 dBm	-24.68 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71457 GHz	-41.99 dBm	-16.99 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73377 GHz	-41.26 dBm	-1.26 dB

Date: 6.JAN.2023 10:53:54

Highest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51290 GHz	-46.66 dBm	-6.66 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53066 GHz	-47.48 dBm	-22.48 dB
3.540 GHz	3.685 GHz	1.000 MHz	3.66146 GHz	-42.19 dBm	-17.19 dB
3.685 GHz	3.694 GHz	1.000 MHz	3.69394 GHz	-36.66 dBm	-23.66 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69495 GHz	-48.28 dBm	-35.28 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69964 GHz	18.21 dBm	-11.79 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70001 GHz	-20.78 dBm	-7.78 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70100 GHz	-25.94 dBm	-12.94 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71870 GHz	-41.72 dBm	-16.72 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73797 GHz	-41.08 dBm	-1.08 dB

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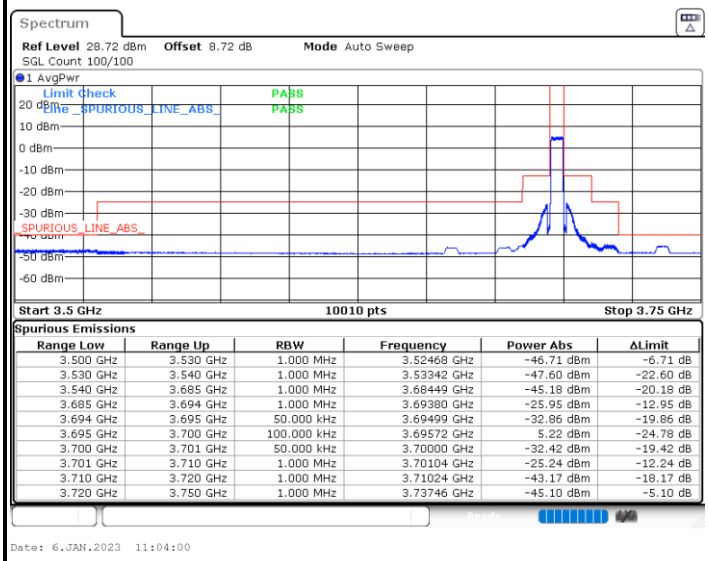
Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52468 GHz	-46.71 dBm	-6.71 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53342 GHz	-47.60 dBm	-22.60 dB
3.540 GHz	3.685 GHz	1.000 MHz	3.68449 GHz	-45.18 dBm	-20.18 dB
3.685 GHz	3.694 GHz	1.000 MHz	3.69380 GHz	-25.95 dBm	-12.95 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69499 GHz	-32.86 dBm	-19.86 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69572 GHz	5.22 dBm	-24.78 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70000 GHz	-32.42 dBm	-19.42 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70104 GHz	-25.24 dBm	-12.24 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71024 GHz	-43.17 dBm	-18.17 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73746 GHz	-45.10 dBm	-5.10 dB

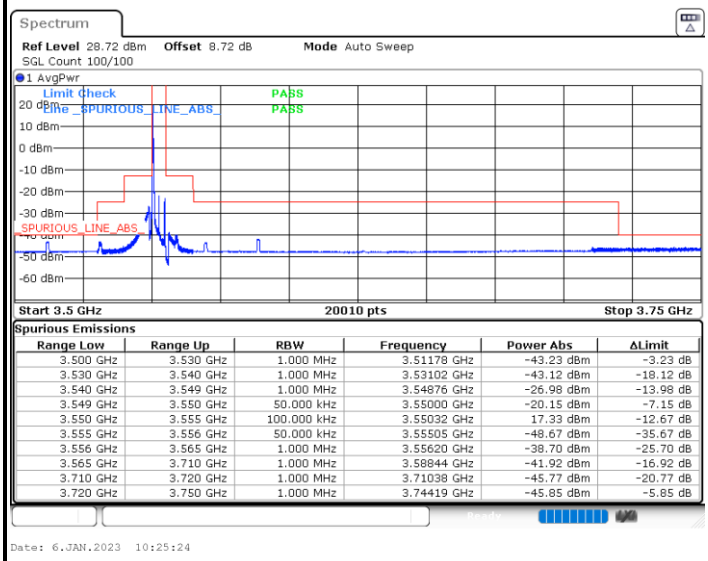
Date: 6.JAN.2023 11:04:00

N/A

LTE Band 48 / 5MHz

16QAM

Lowest Channel / 1RB0

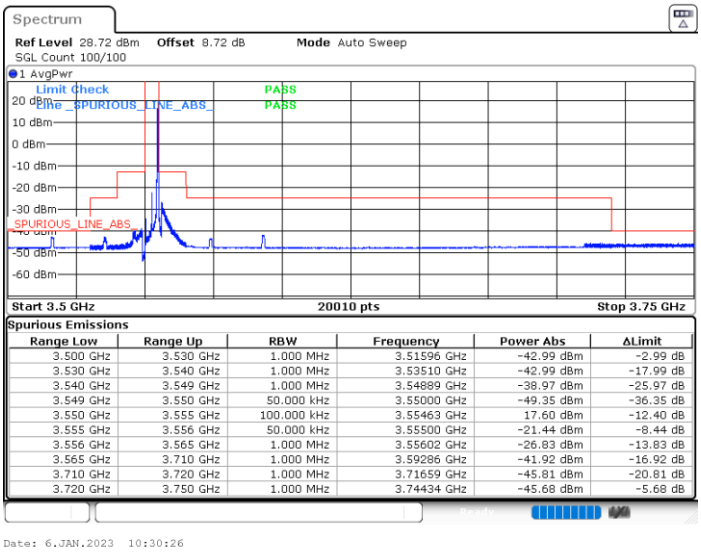


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51178 GHz	-43.23 dBm	-3.23 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53102 GHz	-43.12 dBm	-18.12 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54876 GHz	-26.98 dBm	-13.98 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.55000 GHz	-20.15 dBm	-7.15 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55032 GHz	17.33 dBm	-12.67 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55505 GHz	-48.67 dBm	-35.67 dB
3.556 GHz	3.565 GHz	1.000 MHz	3.55620 GHz	-38.70 dBm	-25.70 dB
3.565 GHz	3.710 GHz	1.000 MHz	3.58844 GHz	-41.92 dBm	-16.92 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71038 GHz	-45.77 dBm	-20.77 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74419 GHz	-45.85 dBm	-5.85 dB

Date: 6.JAN.2023 10:25:24

Lowest Channel / 1RBmax

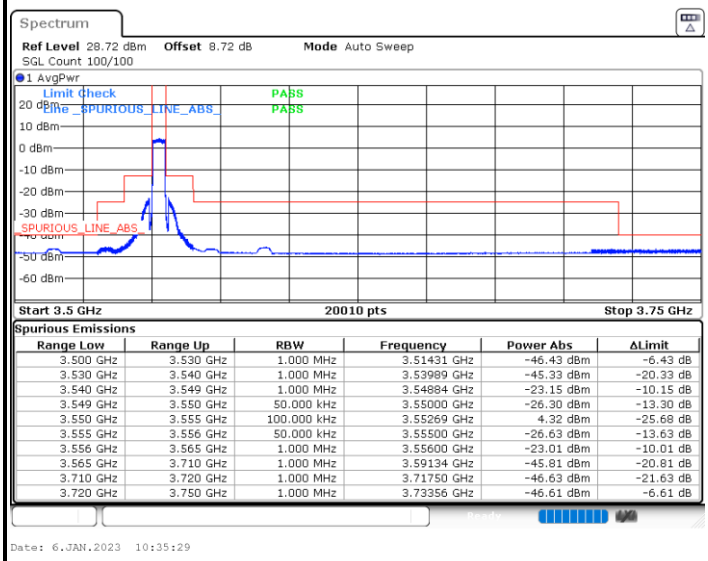


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51596 GHz	-42.99 dBm	-2.99 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53510 GHz	-42.99 dBm	-17.99 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54889 GHz	-38.97 dBm	-25.97 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.55000 GHz	-49.35 dBm	-36.35 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55463 GHz	17.60 dBm	-12.40 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55500 GHz	-21.44 dBm	-8.44 dB
3.556 GHz	3.565 GHz	1.000 MHz	3.55602 GHz	-26.83 dBm	-13.83 dB
3.565 GHz	3.710 GHz	1.000 MHz	3.59286 GHz	-41.92 dBm	-16.92 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71659 GHz	-45.81 dBm	-20.81 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74434 GHz	-45.68 dBm	-5.68 dB

Date: 6.JAN.2023 10:30:26

Lowest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51431 GHz	-46.43 dBm	-6.43 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53989 GHz	-45.33 dBm	-20.33 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54884 GHz	-23.15 dBm	-10.15 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.55000 GHz	-26.30 dBm	-13.30 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55269 GHz	4.32 dBm	-25.68 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55500 GHz	-26.63 dBm	-13.63 dB
3.556 GHz	3.565 GHz	1.000 MHz	3.55600 GHz	-23.01 dBm	-10.01 dB
3.565 GHz	3.710 GHz	1.000 MHz	3.59134 GHz	-45.81 dBm	-20.81 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71750 GHz	-46.63 dBm	-21.63 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73356 GHz	-46.61 dBm	-6.61 dB

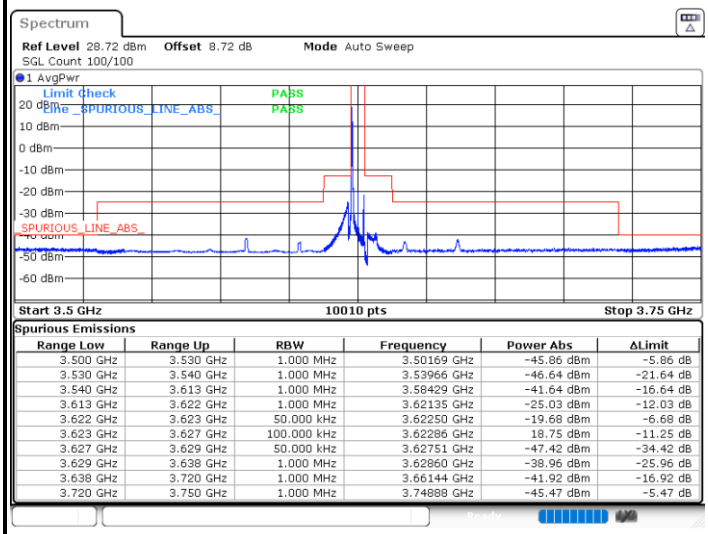
Date: 6.JAN.2023 10:35:29

N/A

LTE Band 48 / 5MHz

16QAM

Middle Channel / 1RB0

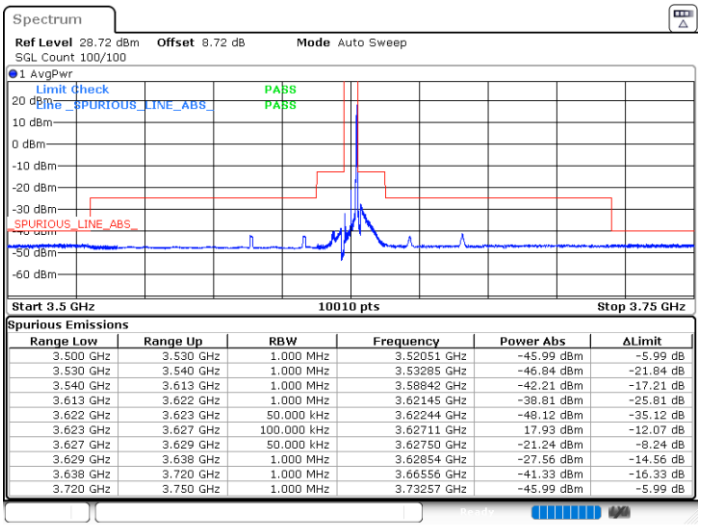


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50169 GHz	-45.86 dBm	-5.86 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53966 GHz	-46.64 dBm	-21.64 dB
3.540 GHz	3.613 GHz	1.000 MHz	3.58429 GHz	-41.64 dBm	-16.64 dB
3.613 GHz	3.622 GHz	1.000 MHz	3.62135 GHz	-25.03 dBm	-12.03 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62250 GHz	-19.68 dBm	-6.68 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62286 GHz	18.75 dBm	-11.25 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62751 GHz	-47.42 dBm	-34.42 dB
3.629 GHz	3.638 GHz	1.000 MHz	3.62860 GHz	-38.96 dBm	-25.96 dB
3.638 GHz	3.720 GHz	1.000 MHz	3.66144 GHz	-41.92 dBm	-16.92 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74888 GHz	-45.47 dBm	-5.47 dB

Date: 6.JAN.2023 10:40:32

Middle Channel / 1RBmax

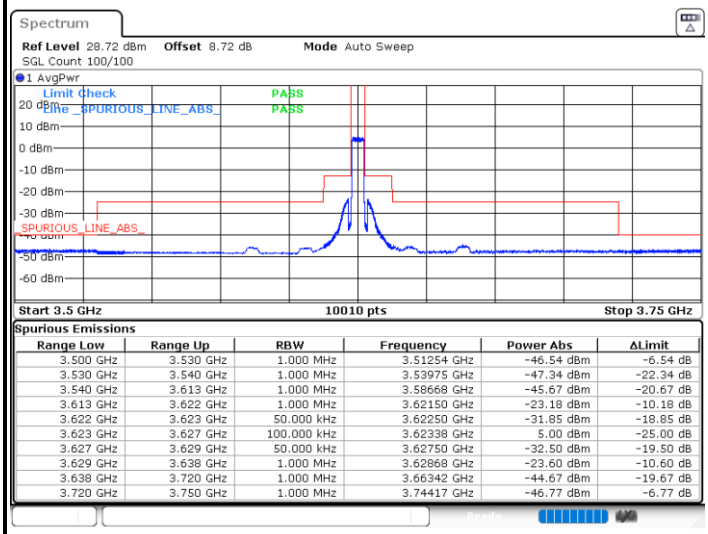


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52051 GHz	-45.99 dBm	-5.99 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53285 GHz	-46.84 dBm	-21.84 dB
3.540 GHz	3.613 GHz	1.000 MHz	3.58842 GHz	-42.21 dBm	-17.21 dB
3.613 GHz	3.622 GHz	1.000 MHz	3.62145 GHz	-38.81 dBm	-25.81 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62244 GHz	-48.12 dBm	-35.12 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62711 GHz	17.93 dBm	-12.07 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62750 GHz	-21.24 dBm	-8.24 dB
3.629 GHz	3.638 GHz	1.000 MHz	3.62854 GHz	-27.56 dBm	-14.56 dB
3.638 GHz	3.720 GHz	1.000 MHz	3.66556 GHz	-41.33 dBm	-16.33 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73257 GHz	-45.99 dBm	-5.99 dB

Date: 6.JAN.2023 10:45:33

Middle Channel / Full



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51254 GHz	-46.54 dBm	-6.54 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53975 GHz	-47.34 dBm	-22.34 dB
3.540 GHz	3.613 GHz	1.000 MHz	3.58668 GHz	-45.67 dBm	-20.67 dB
3.613 GHz	3.622 GHz	1.000 MHz	3.62150 GHz	-23.18 dBm	-10.18 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62250 GHz	-31.85 dBm	-18.85 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62338 GHz	5.00 dBm	-25.00 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62750 GHz	-32.50 dBm	-19.50 dB
3.629 GHz	3.638 GHz	1.000 MHz	3.62868 GHz	-23.60 dBm	-10.60 dB
3.638 GHz	3.720 GHz	1.000 MHz	3.66342 GHz	-44.67 dBm	-19.67 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74417 GHz	-46.77 dBm	-6.77 dB

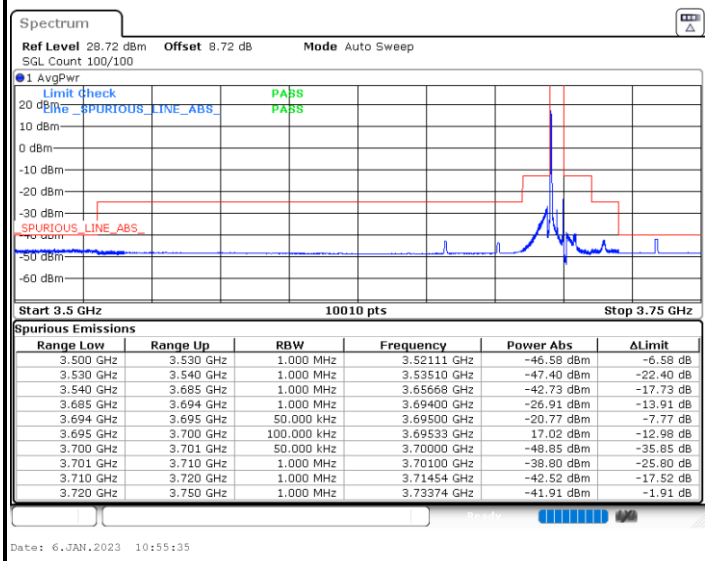
Date: 6.JAN.2023 10:50:33

N/A

LTE Band 48 / 5MHz

16QAM

Highest Channel / 1RB0

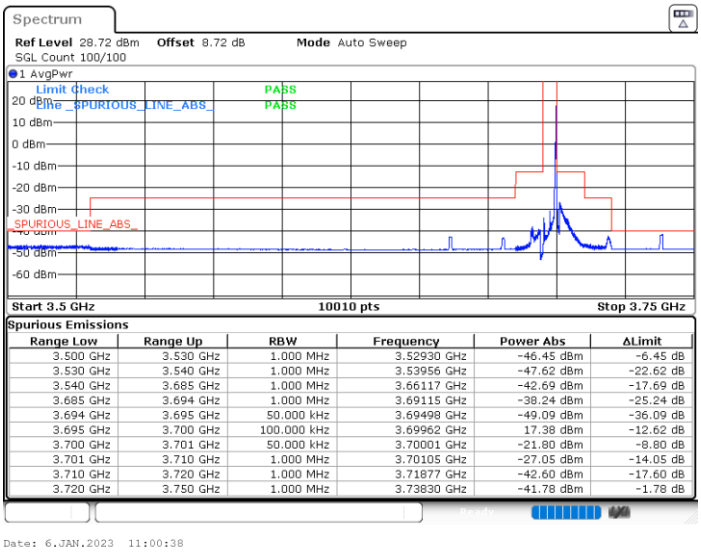


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52111 GHz	-46.58 dBm	-6.58 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53510 GHz	-47.40 dBm	-22.40 dB
3.540 GHz	3.685 GHz	1.000 MHz	3.65668 GHz	-42.73 dBm	-17.73 dB
3.685 GHz	3.694 GHz	1.000 MHz	3.69400 GHz	-26.91 dBm	-13.91 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69500 GHz	-20.77 dBm	-7.77 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69533 GHz	17.02 dBm	-12.98 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70000 GHz	-48.85 dBm	-35.85 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70100 GHz	-38.80 dBm	-25.80 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71454 GHz	-42.52 dBm	-17.52 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73374 GHz	-41.91 dBm	-1.91 dB

Date: 6.JAN.2023 10:55:35

Highest Channel / 1RBmax

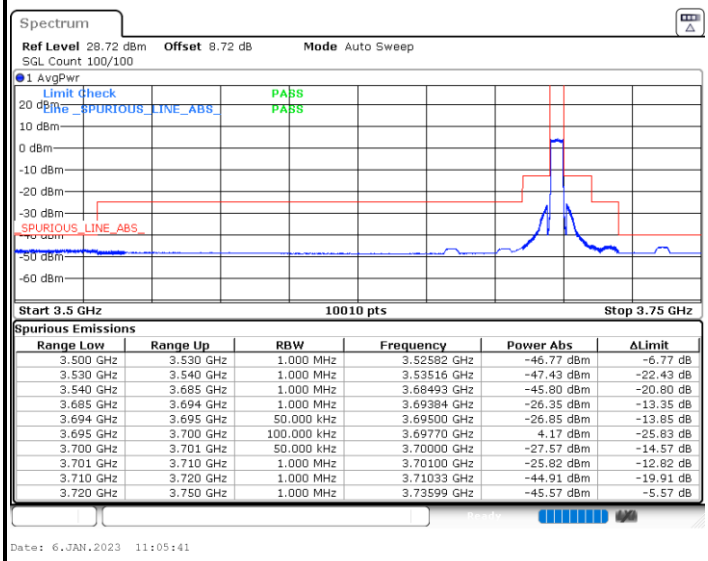


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52930 GHz	-46.45 dBm	-6.45 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53956 GHz	-47.62 dBm	-22.62 dB
3.540 GHz	3.685 GHz	1.000 MHz	3.66117 GHz	-42.69 dBm	-17.69 dB
3.685 GHz	3.694 GHz	1.000 MHz	3.69115 GHz	-38.24 dBm	-25.24 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69498 GHz	-49.09 dBm	-36.09 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69962 GHz	17.38 dBm	-12.62 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70001 GHz	-21.80 dBm	-8.80 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70105 GHz	-27.05 dBm	-14.05 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71877 GHz	-42.60 dBm	-17.60 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73830 GHz	-41.78 dBm	-1.78 dB

Date: 6.JAN.2023 11:00:38

Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52582 GHz	-46.77 dBm	-6.77 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53516 GHz	-47.43 dBm	-22.43 dB
3.540 GHz	3.685 GHz	1.000 MHz	3.68493 GHz	-45.80 dBm	-20.80 dB
3.685 GHz	3.694 GHz	1.000 MHz	3.69384 GHz	-26.35 dBm	-13.35 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69500 GHz	-26.85 dBm	-13.85 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69770 GHz	4.17 dBm	-25.83 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70000 GHz	-27.57 dBm	-14.57 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70100 GHz	-25.82 dBm	-12.82 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71033 GHz	-44.91 dBm	-19.91 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73599 GHz	-45.57 dBm	-5.57 dB

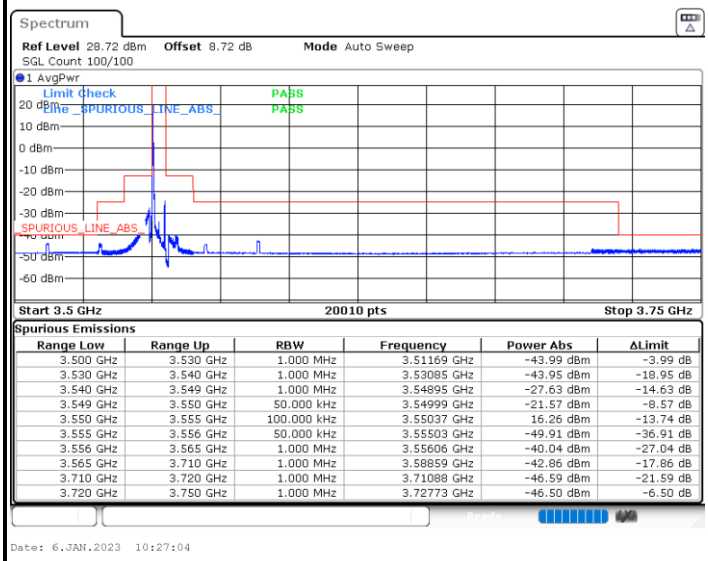
Date: 6.JAN.2023 11:05:41

N/A

LTE Band 48 / 5MHz

64QAM

Lowest Channel / 1RB0

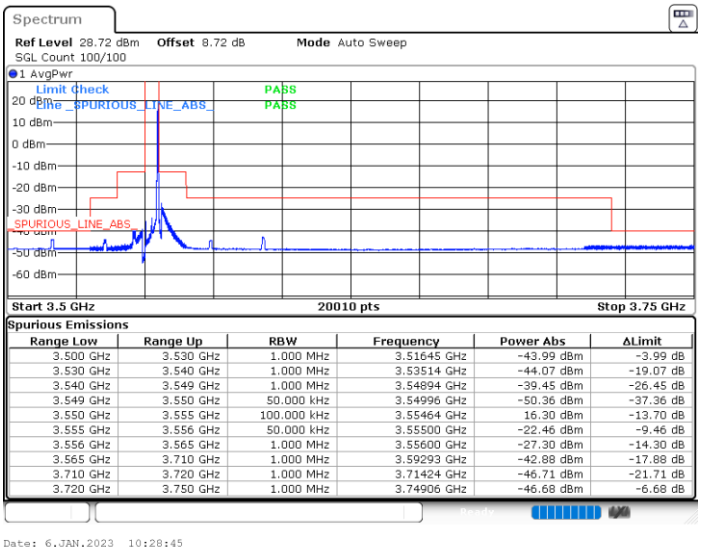


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51169 GHz	-43.99 dBm	-3.99 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53085 GHz	-43.95 dBm	-18.95 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54895 GHz	-27.63 dBm	-14.63 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.54999 GHz	-21.57 dBm	-8.57 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55037 GHz	16.26 dBm	-13.74 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55503 GHz	-49.91 dBm	-36.91 dB
3.556 GHz	3.565 GHz	1.000 MHz	3.55606 GHz	-40.04 dBm	-27.04 dB
3.565 GHz	3.710 GHz	1.000 MHz	3.58859 GHz	-42.86 dBm	-17.86 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71088 GHz	-46.59 dBm	-21.59 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72773 GHz	-46.50 dBm	-6.50 dB

Date: 6.JAN.2023 10:27:04

Lowest Channel / 1RBmax

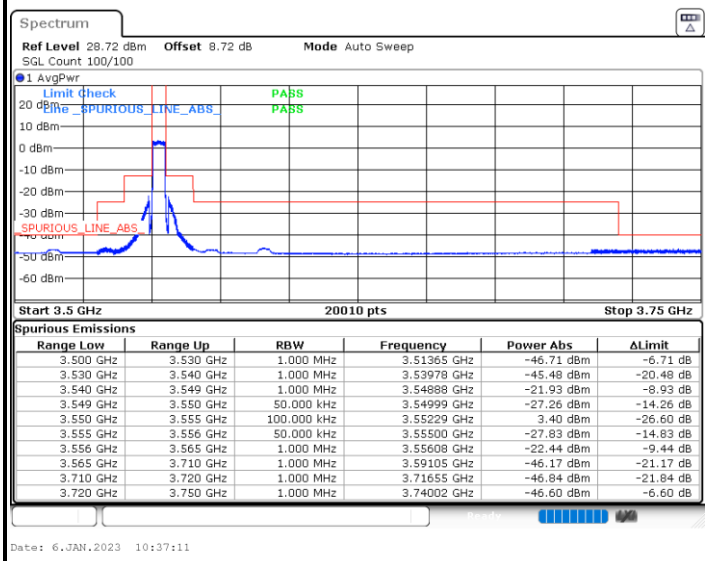


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51645 GHz	-43.99 dBm	-3.99 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53514 GHz	-44.07 dBm	-19.07 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54894 GHz	-39.45 dBm	-26.45 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.54996 GHz	-50.36 dBm	-37.36 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55464 GHz	16.30 dBm	-13.70 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55500 GHz	-22.46 dBm	-9.46 dB
3.556 GHz	3.565 GHz	1.000 MHz	3.55600 GHz	-27.30 dBm	-14.30 dB
3.565 GHz	3.710 GHz	1.000 MHz	3.59293 GHz	-42.88 dBm	-17.88 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71424 GHz	-46.71 dBm	-21.71 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74906 GHz	-46.68 dBm	-6.68 dB

Date: 6.JAN.2023 10:28:45

Lowest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51365 GHz	-46.71 dBm	-6.71 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53978 GHz	-45.48 dBm	-20.48 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54888 GHz	-21.93 dBm	-8.93 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.54999 GHz	-27.26 dBm	-14.26 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55229 GHz	3.40 dBm	-26.60 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55500 GHz	-27.83 dBm	-14.83 dB
3.556 GHz	3.565 GHz	1.000 MHz	3.55608 GHz	-22.44 dBm	-9.44 dB
3.565 GHz	3.710 GHz	1.000 MHz	3.59105 GHz	-46.17 dBm	-21.17 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71655 GHz	-46.84 dBm	-21.84 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74002 GHz	-46.60 dBm	-6.60 dB

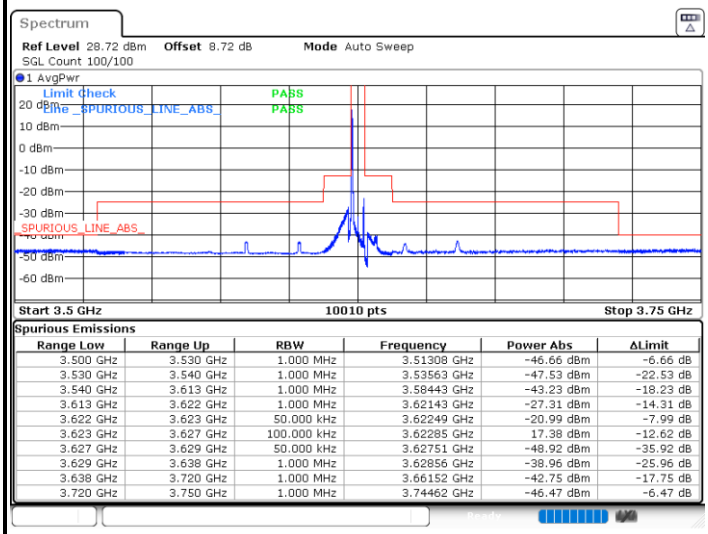
Date: 6.JAN.2023 10:37:11

N/A

LTE Band 48 / 5MHz

64QAM

Middle Channel / 1RB0

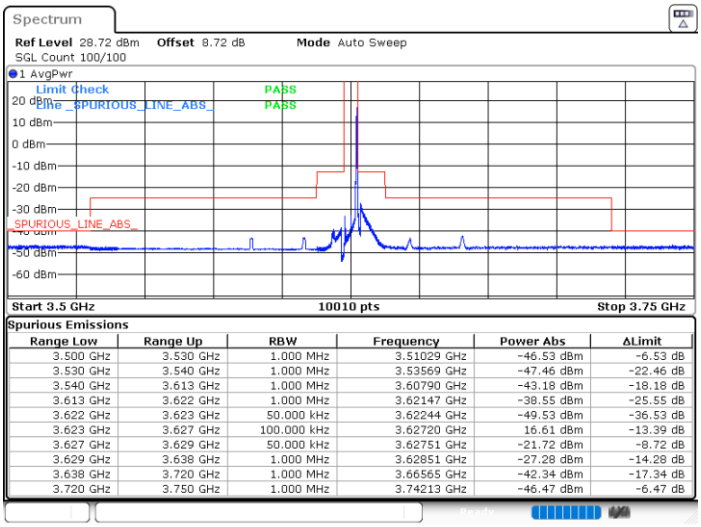


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51308 GHz	-46.66 dBm	-6.66 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53563 GHz	-47.53 dBm	-22.53 dB
3.540 GHz	3.613 GHz	1.000 MHz	3.58443 GHz	-43.23 dBm	-18.23 dB
3.613 GHz	3.622 GHz	1.000 MHz	3.62143 GHz	-27.31 dBm	-14.31 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62249 GHz	-20.99 dBm	-7.99 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62285 GHz	17.38 dBm	-12.62 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62751 GHz	-48.92 dBm	-35.92 dB
3.629 GHz	3.638 GHz	1.000 MHz	3.62856 GHz	-38.96 dBm	-25.96 dB
3.638 GHz	3.720 GHz	1.000 MHz	3.66152 GHz	-42.75 dBm	-17.75 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74462 GHz	-46.47 dBm	-6.47 dB

Date: 6.JAN.2023 10:42:12

Middle Channel / 1RBmax

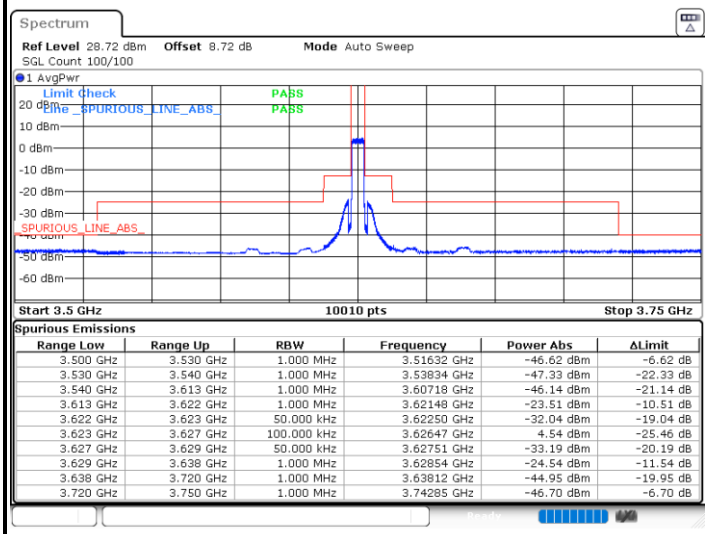


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51029 GHz	-46.53 dBm	-6.53 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53569 GHz	-47.46 dBm	-22.46 dB
3.540 GHz	3.613 GHz	1.000 MHz	3.60790 GHz	-43.18 dBm	-18.18 dB
3.613 GHz	3.622 GHz	1.000 MHz	3.62147 GHz	-38.55 dBm	-25.55 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62244 GHz	-49.53 dBm	-36.53 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62720 GHz	16.61 dBm	-13.39 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62751 GHz	-21.72 dBm	-8.72 dB
3.629 GHz	3.638 GHz	1.000 MHz	3.62851 GHz	-27.28 dBm	-14.28 dB
3.638 GHz	3.720 GHz	1.000 MHz	3.66565 GHz	-42.34 dBm	-17.34 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74213 GHz	-46.47 dBm	-6.47 dB

Date: 6.JAN.2023 10:43:52

Middle Channel / Full



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51632 GHz	-46.62 dBm	-6.62 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53834 GHz	-47.33 dBm	-22.33 dB
3.540 GHz	3.613 GHz	1.000 MHz	3.60718 GHz	-46.14 dBm	-21.14 dB
3.613 GHz	3.622 GHz	1.000 MHz	3.62148 GHz	-23.51 dBm	-10.51 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62250 GHz	-32.04 dBm	-19.04 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62647 GHz	4.54 dBm	-25.46 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62751 GHz	-33.19 dBm	-20.19 dB
3.629 GHz	3.638 GHz	1.000 MHz	3.62854 GHz	-24.54 dBm	-11.54 dB
3.638 GHz	3.720 GHz	1.000 MHz	3.63812 GHz	-44.95 dBm	-19.95 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74285 GHz	-46.70 dBm	-6.70 dB

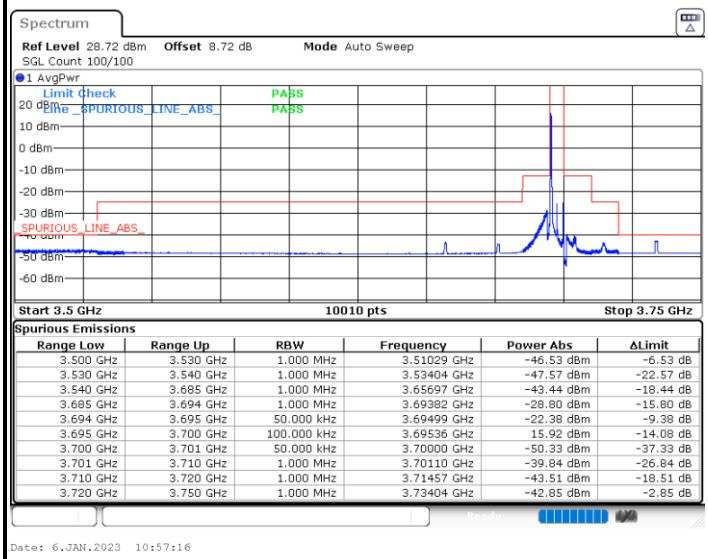
Date: 6.JAN.2023 10:52:14

N/A

LTE Band 48 / 5MHz

64QAM

Highest Channel / 1RB0

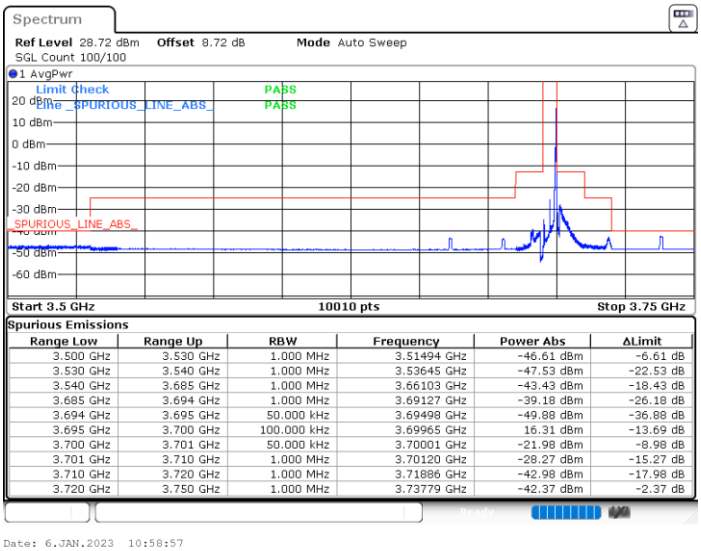


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51029 GHz	-46.53 dBm	-6.53 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53404 GHz	-47.57 dBm	-22.57 dB
3.540 GHz	3.685 GHz	1.000 MHz	3.65697 GHz	-43.44 dBm	-18.44 dB
3.685 GHz	3.694 GHz	1.000 MHz	3.69382 GHz	-28.80 dBm	-15.80 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69499 GHz	-22.38 dBm	-9.38 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69536 GHz	15.92 dBm	-14.08 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70000 GHz	-50.33 dBm	-37.33 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70110 GHz	-39.84 dBm	-26.84 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71457 GHz	-43.51 dBm	-18.51 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73404 GHz	-42.85 dBm	-2.85 dB

Date: 6.JAN.2023 10:57:16

Highest Channel / 1RBmax

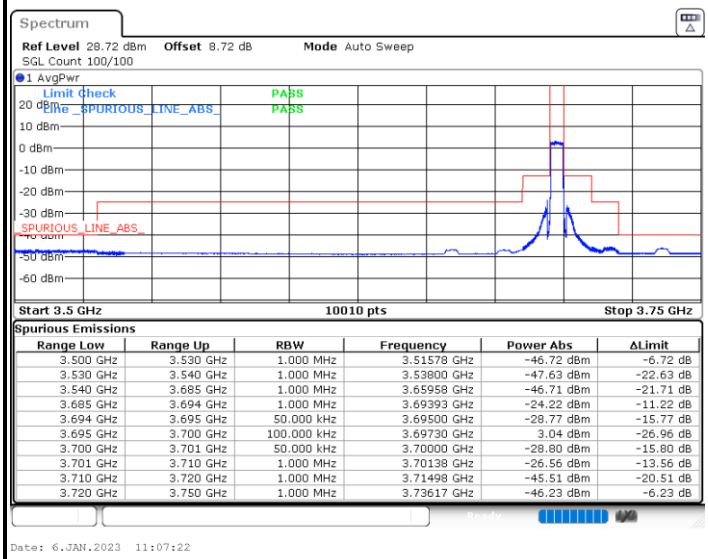


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51494 GHz	-46.61 dBm	-6.61 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53645 GHz	-47.53 dBm	-22.53 dB
3.540 GHz	3.685 GHz	1.000 MHz	3.66103 GHz	-43.43 dBm	-18.43 dB
3.685 GHz	3.694 GHz	1.000 MHz	3.69127 GHz	-39.18 dBm	-26.18 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69498 GHz	-49.88 dBm	-36.88 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69965 GHz	16.31 dBm	-13.69 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70001 GHz	-21.98 dBm	-8.98 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70120 GHz	-28.27 dBm	-15.27 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71886 GHz	-42.98 dBm	-17.98 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73779 GHz	-42.37 dBm	-2.37 dB

Date: 6.JAN.2023 10:58:57

Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51578 GHz	-46.72 dBm	-6.72 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53800 GHz	-47.63 dBm	-22.63 dB
3.540 GHz	3.685 GHz	1.000 MHz	3.65958 GHz	-46.71 dBm	-21.71 dB
3.685 GHz	3.694 GHz	1.000 MHz	3.69393 GHz	-24.22 dBm	-11.22 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69500 GHz	-28.77 dBm	-15.77 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69730 GHz	3.04 dBm	-26.96 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70000 GHz	-28.80 dBm	-15.80 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70138 GHz	-26.56 dBm	-13.56 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71498 GHz	-45.51 dBm	-20.51 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73617 GHz	-46.23 dBm	-6.23 dB

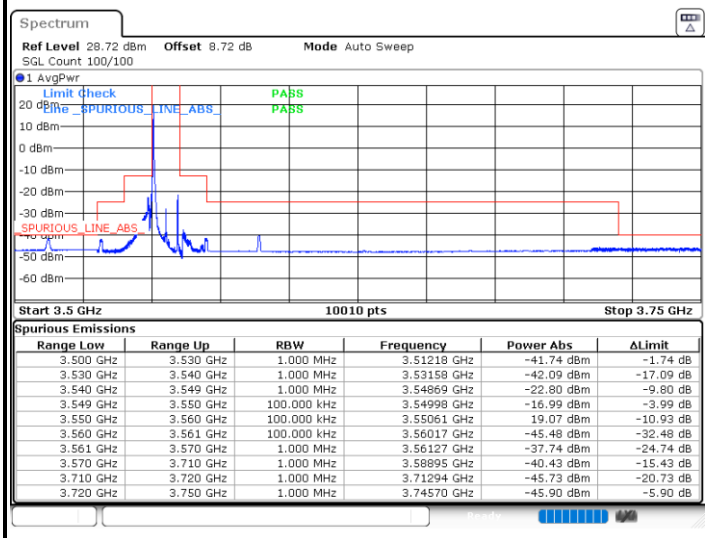
Date: 6.JAN.2023 11:07:22

N/A

LTE Band 48 / 10MHz

QPSK

Lowest Channel / 1RB0

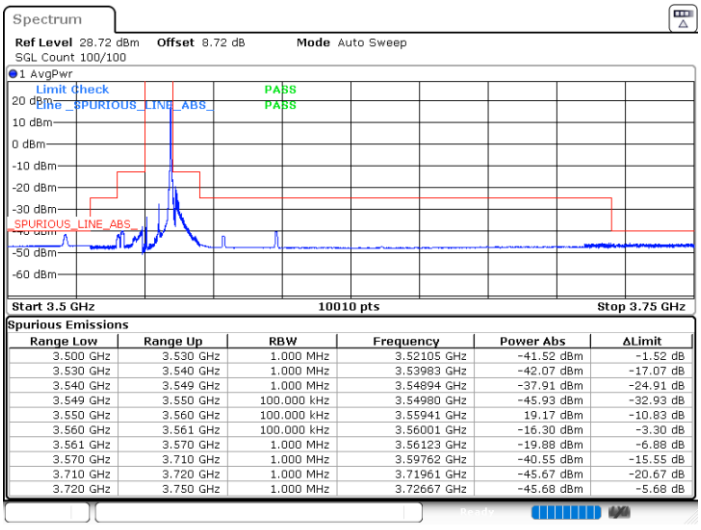


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51218 GHz	-41.74 dBm	-1.74 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53158 GHz	-42.09 dBm	-17.09 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54869 GHz	-22.80 dBm	-9.80 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54998 GHz	-16.99 dBm	-3.99 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55061 GHz	19.07 dBm	-10.93 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56017 GHz	-45.48 dBm	-32.48 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56127 GHz	-37.74 dBm	-24.74 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.58895 GHz	-40.43 dBm	-15.43 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71294 GHz	-45.73 dBm	-20.73 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74570 GHz	-45.90 dBm	-5.90 dB

Date: 6.JAN.2023 11:11:50

Lowest Channel / 1RBmax

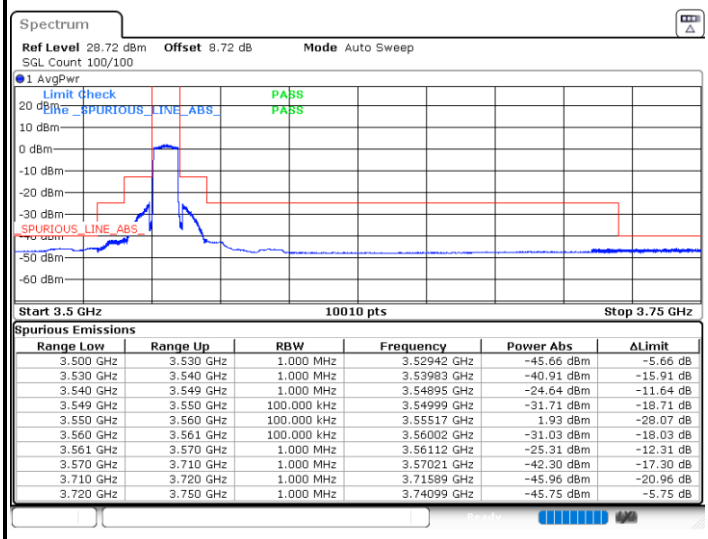


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52105 GHz	-41.52 dBm	-1.52 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53983 GHz	-42.07 dBm	-17.07 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54894 GHz	-37.91 dBm	-24.91 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54980 GHz	-45.93 dBm	-32.93 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55941 GHz	19.17 dBm	-10.83 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56001 GHz	-16.30 dBm	-3.30 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56123 GHz	-19.88 dBm	-6.88 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.59762 GHz	-40.55 dBm	-15.55 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71961 GHz	-45.67 dBm	-20.67 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72667 GHz	-45.68 dBm	-5.68 dB

Date: 6.JAN.2023 11:20:15

Lowest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52942 GHz	-45.66 dBm	-5.66 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53983 GHz	-40.91 dBm	-15.91 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54895 GHz	-24.64 dBm	-11.64 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54999 GHz	-31.71 dBm	-18.71 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55517 GHz	1.93 dBm	-28.07 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56002 GHz	-31.03 dBm	-18.03 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56112 GHz	-25.31 dBm	-12.31 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.57021 GHz	-42.30 dBm	-17.30 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71589 GHz	-45.96 dBm	-20.96 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74099 GHz	-45.75 dBm	-5.75 dB

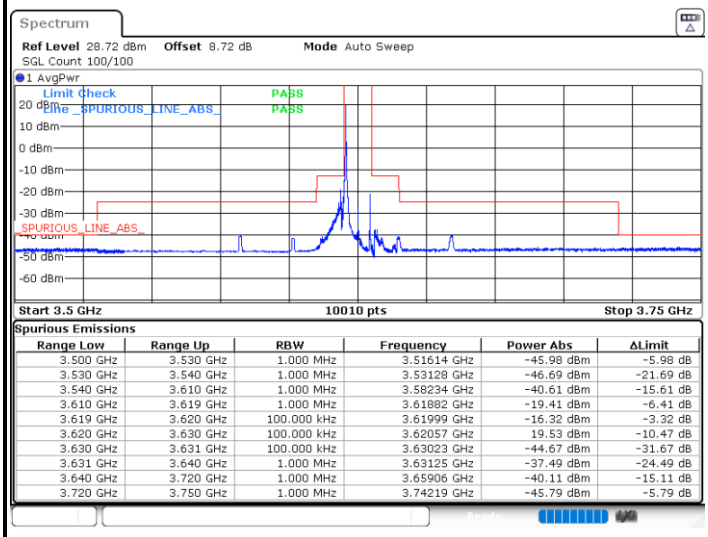
Date: 6.JAN.2023 11:21:56

N/A

LTE Band 48 / 10MHz

QPSK

Middle Channel / 1RB0

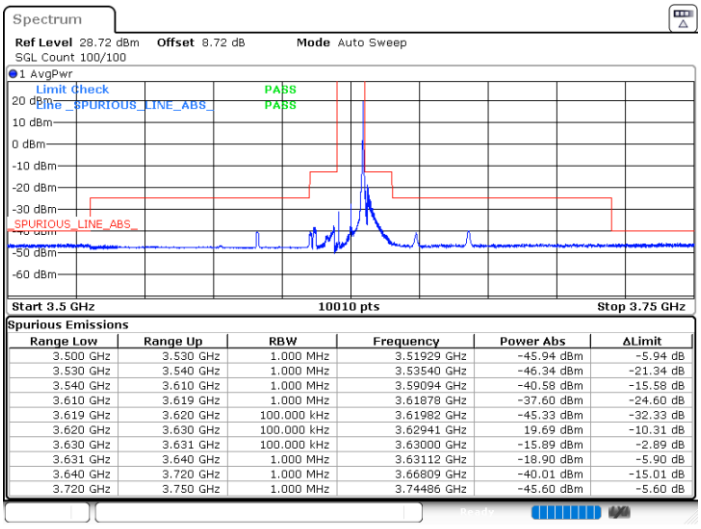


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51614 GHz	-45.98 dBm	-5.98 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53128 GHz	-46.69 dBm	-21.69 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.58234 GHz	-40.61 dBm	-15.61 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61882 GHz	-19.41 dBm	-6.41 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61999 GHz	-16.32 dBm	-3.32 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62057 GHz	19.53 dBm	-10.47 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63023 GHz	-44.67 dBm	-31.67 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63125 GHz	-37.49 dBm	-24.49 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.65906 GHz	-40.11 dBm	-15.11 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74219 GHz	-45.79 dBm	-5.79 dB

Date: 6.JAN.2023 11:26:59

Middle Channel / 1RBmax

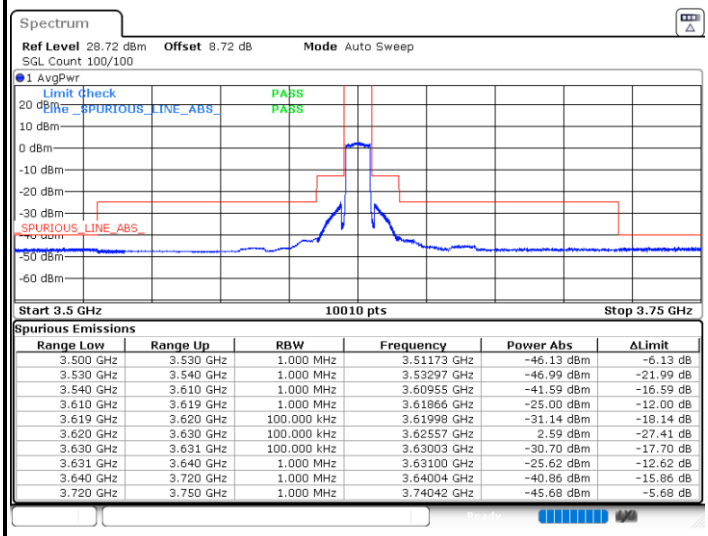


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51929 GHz	-45.94 dBm	-5.94 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53540 GHz	-46.34 dBm	-21.34 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.59094 GHz	-40.58 dBm	-15.58 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61878 GHz	-37.60 dBm	-24.60 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61982 GHz	-45.33 dBm	-32.33 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62941 GHz	19.69 dBm	-10.31 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63000 GHz	-15.89 dBm	-2.89 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63112 GHz	-18.90 dBm	-5.90 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.66809 GHz	-40.01 dBm	-15.01 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74486 GHz	-45.60 dBm	-5.60 dB

Date: 6.JAN.2023 11:32:00

Middle Channel / Full



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51173 GHz	-46.13 dBm	-6.13 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53297 GHz	-46.99 dBm	-21.99 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.60955 GHz	-41.59 dBm	-16.59 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61866 GHz	-25.00 dBm	-12.00 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61998 GHz	-31.14 dBm	-18.14 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62557 GHz	2.59 dBm	-27.41 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63003 GHz	-30.70 dBm	-17.70 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63100 GHz	-25.62 dBm	-12.62 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64004 GHz	-40.86 dBm	-15.86 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74042 GHz	-45.68 dBm	-5.68 dB

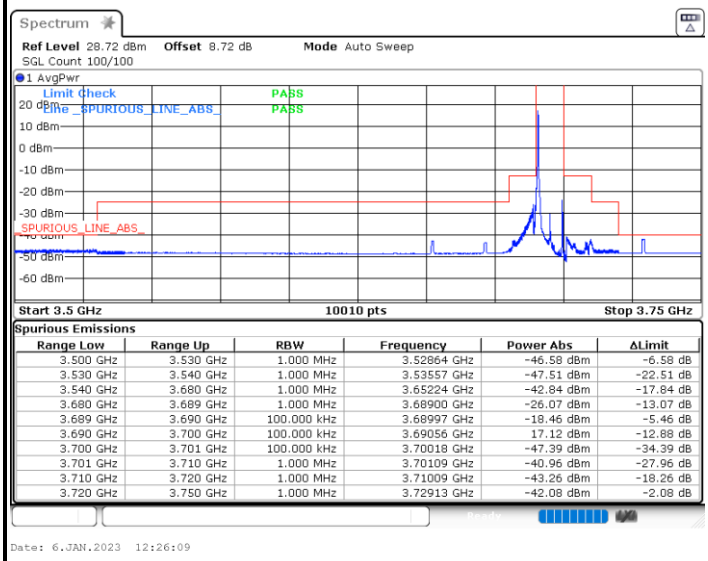
Date: 6.JAN.2023 11:40:21

N/A

LTE Band 48 / 10MHz

QPSK

Highest Channel / 1RB0

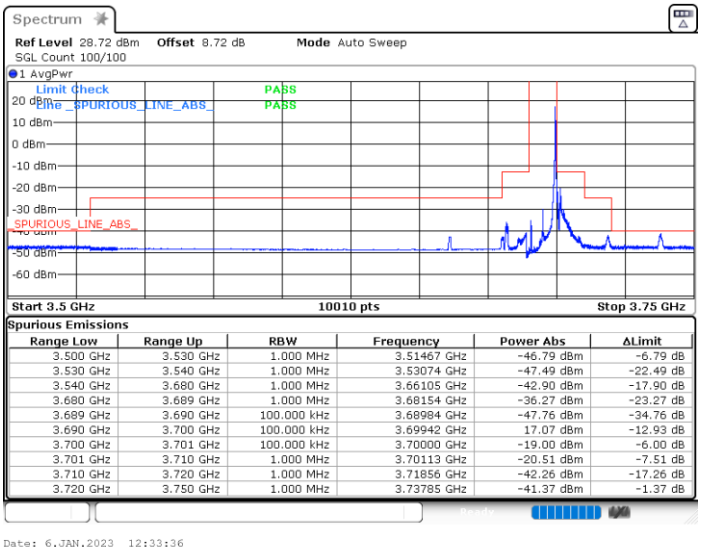


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52864 GHz	-46.58 dBm	-6.58 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53557 GHz	-47.51 dBm	-22.51 dB
3.540 GHz	3.680 GHz	1.000 MHz	3.65224 GHz	-42.84 dBm	-17.84 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68900 GHz	-26.07 dBm	-13.07 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.68997 GHz	-18.46 dBm	-5.46 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69056 GHz	17.12 dBm	-12.88 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70018 GHz	-47.39 dBm	-34.39 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70109 GHz	-40.96 dBm	-27.96 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71009 GHz	-43.26 dBm	-18.26 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72913 GHz	-42.08 dBm	-2.08 dB

Date: 6.JAN.2023 12:26:09

Highest Channel / 1RBmax

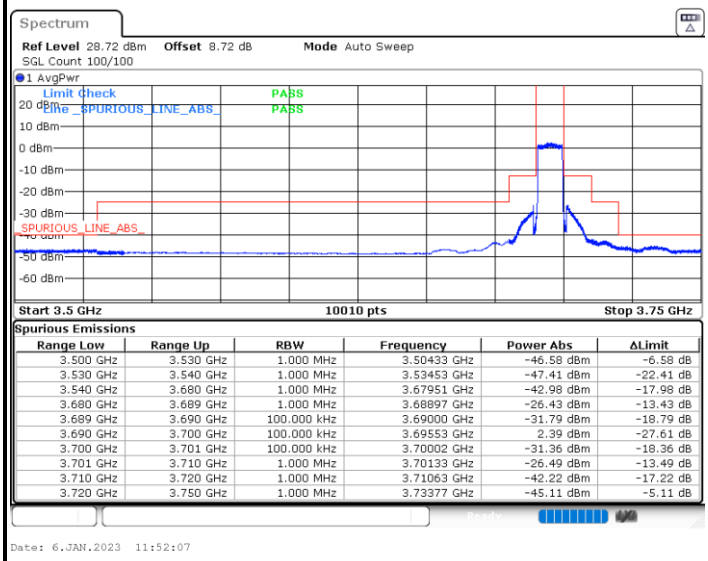


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51467 GHz	-46.79 dBm	-6.79 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53074 GHz	-47.49 dBm	-22.49 dB
3.540 GHz	3.680 GHz	1.000 MHz	3.66105 GHz	-42.90 dBm	-17.90 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68154 GHz	-36.27 dBm	-23.27 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.68984 GHz	-47.76 dBm	-34.76 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69942 GHz	17.07 dBm	-12.93 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70000 GHz	-19.00 dBm	-6.00 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70113 GHz	-20.51 dBm	-7.51 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71856 GHz	-42.26 dBm	-17.26 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73785 GHz	-41.37 dBm	-1.37 dB

Date: 6.JAN.2023 12:33:36

Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50433 GHz	-46.58 dBm	-6.58 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53453 GHz	-47.41 dBm	-22.41 dB
3.540 GHz	3.680 GHz	1.000 MHz	3.67951 GHz	-42.98 dBm	-17.98 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68897 GHz	-26.43 dBm	-13.43 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.69000 GHz	-31.79 dBm	-18.79 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69553 GHz	2.39 dBm	-27.61 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70002 GHz	-31.36 dBm	-18.36 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70133 GHz	-26.49 dBm	-13.49 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71063 GHz	-42.22 dBm	-17.22 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73377 GHz	-45.11 dBm	-5.11 dB

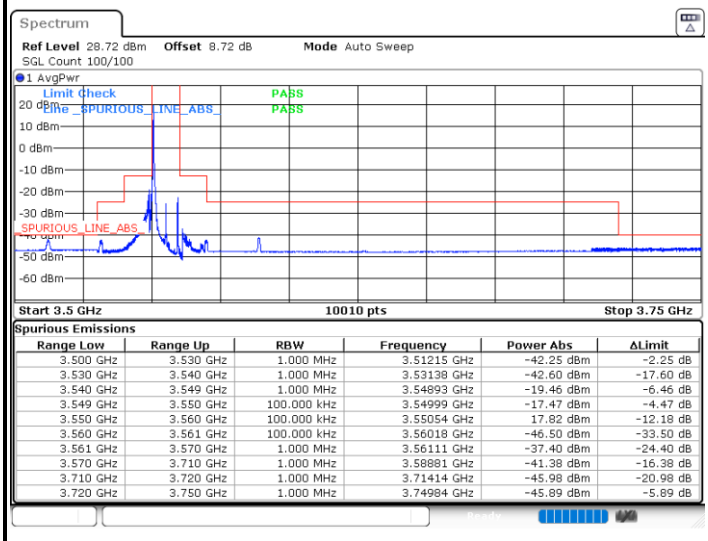
Date: 6.JAN.2023 11:52:07

N/A

LTE Band 48 / 10MHz

16QAM

Lowest Channel / 1RB0

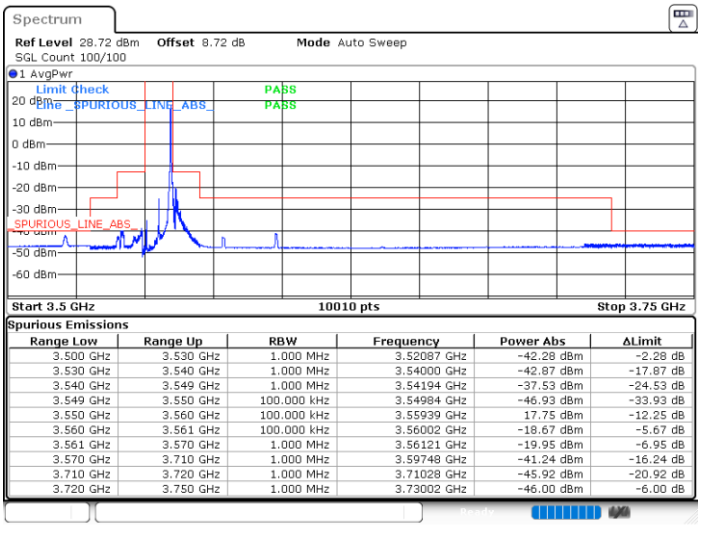


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51215 GHz	-42.25 dBm	-2.25 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53138 GHz	-42.60 dBm	-17.60 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54893 GHz	-19.46 dBm	-6.46 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54999 GHz	-17.47 dBm	-4.47 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55054 GHz	17.82 dBm	-12.18 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56018 GHz	-46.50 dBm	-33.50 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56111 GHz	-37.40 dBm	-24.40 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.58881 GHz	-41.38 dBm	-16.38 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71414 GHz	-45.98 dBm	-20.98 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74984 GHz	-45.89 dBm	-5.89 dB

Date: 6.JAN.2023 11:13:32

Lowest Channel / 1RBmax

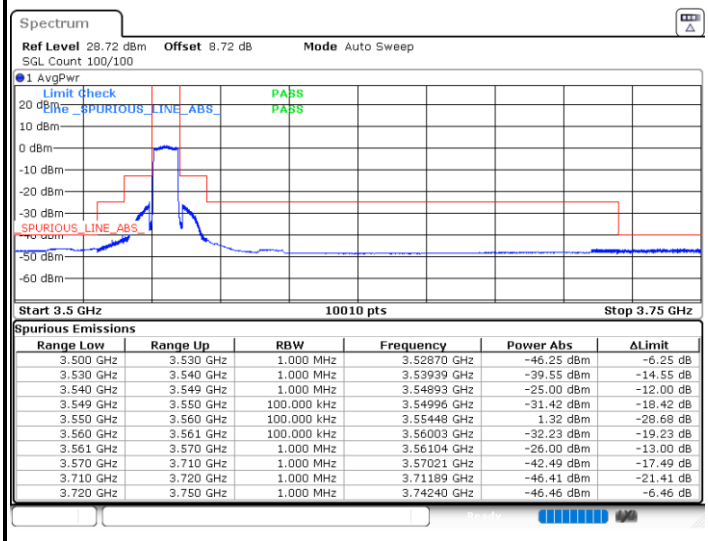


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52087 GHz	-42.28 dBm	-2.28 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.54000 GHz	-42.87 dBm	-17.87 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54194 GHz	-37.53 dBm	-24.53 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54984 GHz	-46.93 dBm	-33.93 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55939 GHz	17.75 dBm	-12.25 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56002 GHz	-18.67 dBm	-5.67 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56121 GHz	-19.95 dBm	-6.95 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.59748 GHz	-41.24 dBm	-16.24 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71028 GHz	-45.92 dBm	-20.92 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73002 GHz	-46.00 dBm	-6.00 dB

Date: 6.JAN.2023 11:18:34

Lowest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52870 GHz	-46.25 dBm	-6.25 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53939 GHz	-39.55 dBm	-14.55 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54893 GHz	-25.00 dBm	-12.00 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54996 GHz	-31.42 dBm	-18.42 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55448 GHz	1.32 dBm	-28.68 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56003 GHz	-32.23 dBm	-19.23 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56104 GHz	-26.00 dBm	-13.00 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.57021 GHz	-42.49 dBm	-17.49 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71189 GHz	-46.41 dBm	-21.41 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74240 GHz	-46.46 dBm	-6.46 dB

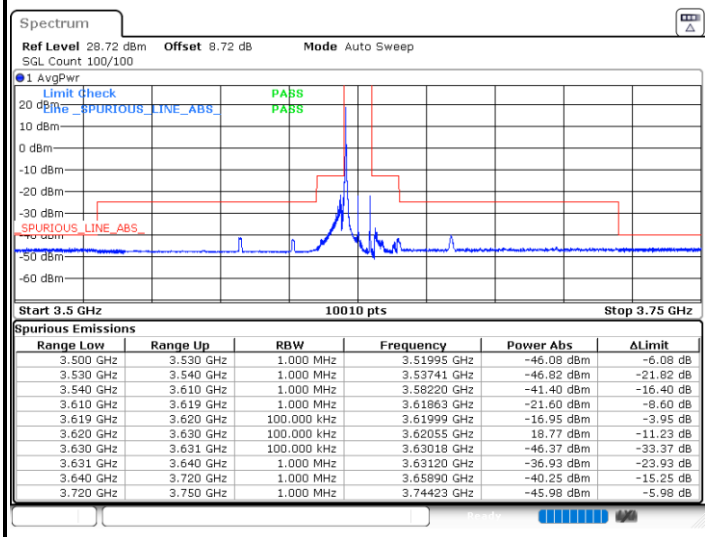
Date: 6.JAN.2023 11:23:37

N/A

LTE Band 48 / 10MHz

16QAM

Middle Channel / 1RB0

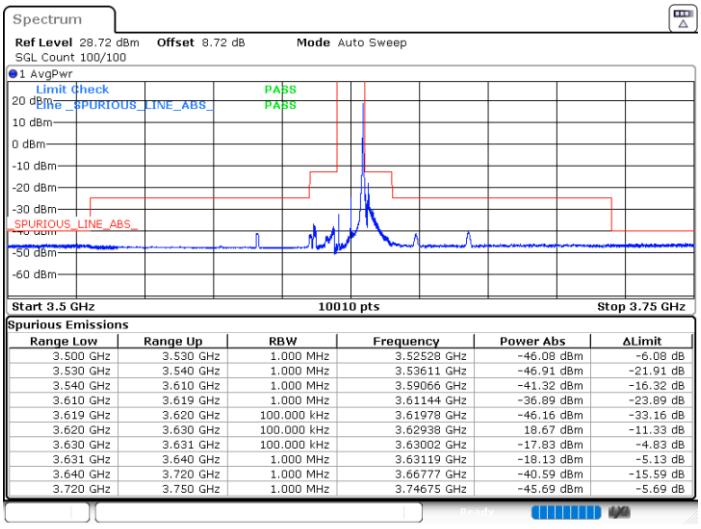


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51995 GHz	-46.08 dBm	-6.08 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53741 GHz	-46.82 dBm	-21.82 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.58220 GHz	-41.40 dBm	-16.40 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61863 GHz	-21.60 dBm	-8.60 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61999 GHz	-16.95 dBm	-3.95 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62055 GHz	18.77 dBm	-11.23 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63018 GHz	-46.37 dBm	-33.37 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63120 GHz	-36.93 dBm	-23.93 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.65890 GHz	-40.25 dBm	-15.25 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74423 GHz	-45.98 dBm	-5.98 dB

Date: 6.JAN.2023 11:28:39

Middle Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52528 GHz	-46.08 dBm	-6.08 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53611 GHz	-46.91 dBm	-21.91 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.59066 GHz	-41.32 dBm	-16.32 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61144 GHz	-36.89 dBm	-23.89 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61978 GHz	-46.16 dBm	-33.16 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62938 GHz	18.67 dBm	-11.33 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63002 GHz	-17.83 dBm	-4.83 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63119 GHz	-18.13 dBm	-5.13 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.66777 GHz	-40.59 dBm	-15.59 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74675 GHz	-45.69 dBm	-5.69 dB

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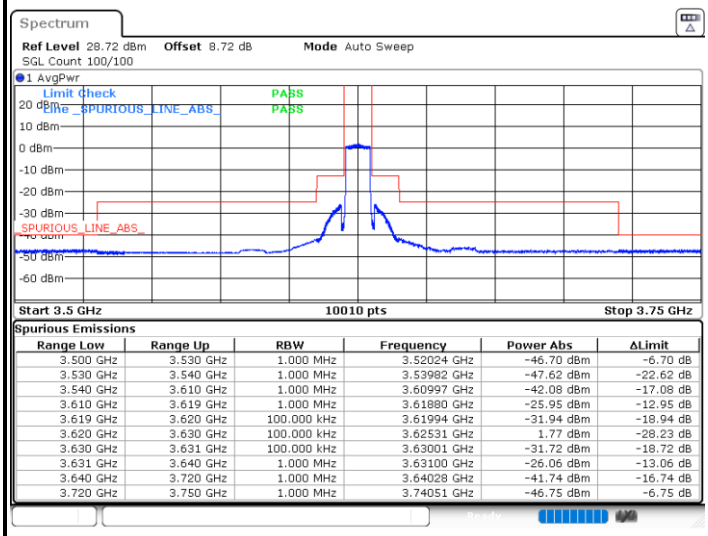
Middle Channel / Full



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52024 GHz	-46.70 dBm	-6.70 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53982 GHz	-47.62 dBm	-22.62 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.60997 GHz	-42.08 dBm	-17.08 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61880 GHz	-25.95 dBm	-12.95 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61994 GHz	-31.94 dBm	-18.94 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62531 GHz	1.77 dBm	-28.23 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63001 GHz	-31.72 dBm	-18.72 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63100 GHz	-26.06 dBm	-13.06 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64028 GHz	-41.74 dBm	-16.74 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74051 GHz	-46.75 dBm	-6.75 dB

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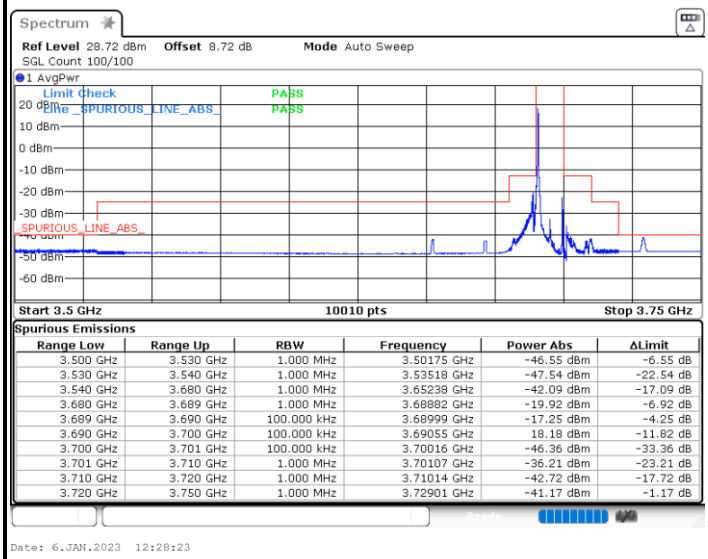
N/A

LTE Band 48 / 10MHz

16QAM

Highest Channel / 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50175 GHz	-46.55 dBm	-6.55 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53518 GHz	-47.54 dBm	-22.54 dB
3.540 GHz	3.680 GHz	1.000 MHz	3.65238 GHz	-42.09 dBm	-17.09 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68882 GHz	-19.92 dBm	-6.92 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.68999 GHz	-17.25 dBm	-4.25 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69055 GHz	18.18 dBm	-11.82 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70016 GHz	-46.36 dBm	-33.36 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70107 GHz	-36.21 dBm	-23.21 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71014 GHz	-42.72 dBm	-17.72 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72901 GHz	-41.17 dBm	-1.17 dB

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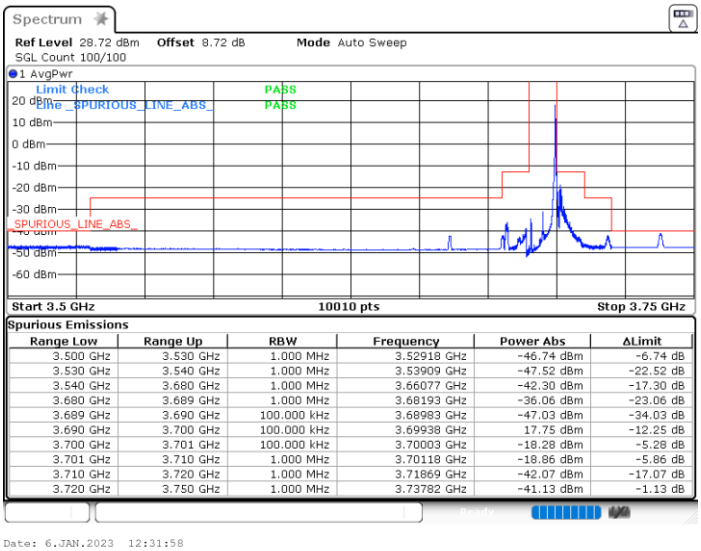
Highest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52918 GHz	-46.74 dBm	-6.74 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53909 GHz	-47.52 dBm	-22.52 dB
3.540 GHz	3.680 GHz	1.000 MHz	3.66077 GHz	-42.30 dBm	-17.30 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68193 GHz	-36.06 dBm	-23.06 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.68983 GHz	-47.03 dBm	-34.03 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69938 GHz	17.75 dBm	-12.25 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70003 GHz	-18.28 dBm	-5.28 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70118 GHz	-18.86 dBm	-5.86 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71869 GHz	-42.07 dBm	-17.07 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73782 GHz	-41.13 dBm	-1.13 dB

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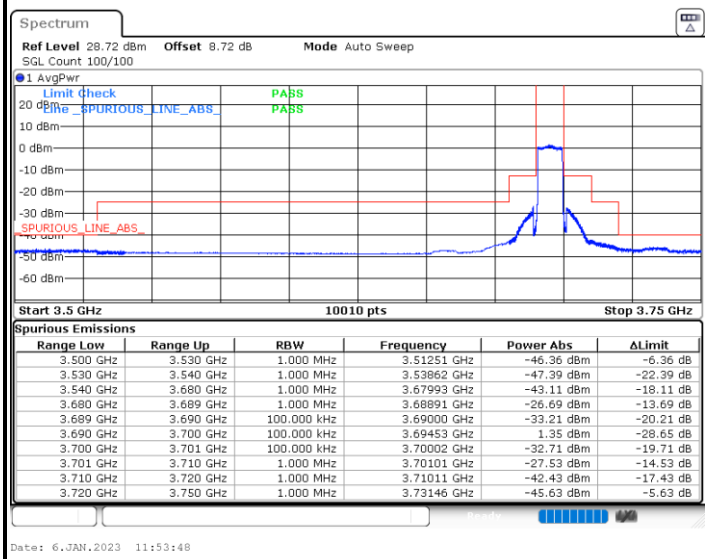
Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51251 GHz	-46.36 dBm	-6.36 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53862 GHz	-47.39 dBm	-22.39 dB
3.540 GHz	3.680 GHz	1.000 MHz	3.67993 GHz	-43.11 dBm	-18.11 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68891 GHz	-26.69 dBm	-13.69 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.69000 GHz	-33.21 dBm	-20.21 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69453 GHz	1.35 dBm	-28.65 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70002 GHz	-32.71 dBm	-19.71 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70101 GHz	-27.53 dBm	-14.53 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71011 GHz	-42.43 dBm	-17.43 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73146 GHz	-45.63 dBm	-5.63 dB

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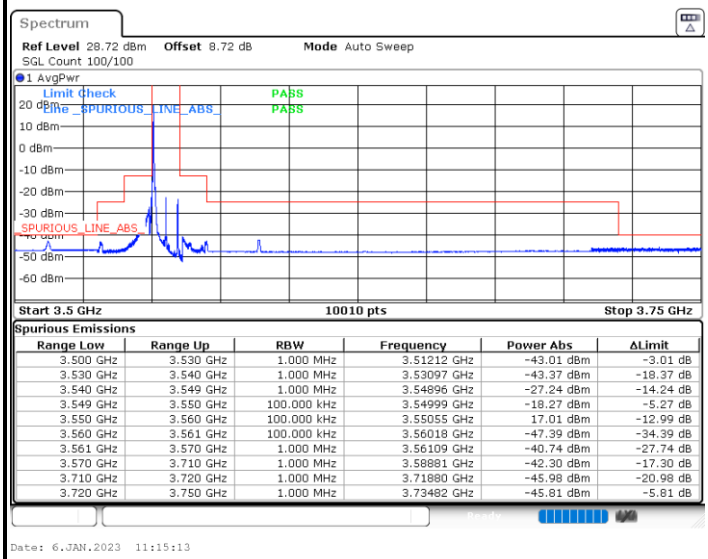
N/A

LTE Band 48 / 10MHz

64QAM

Lowest Channel / 1RB0

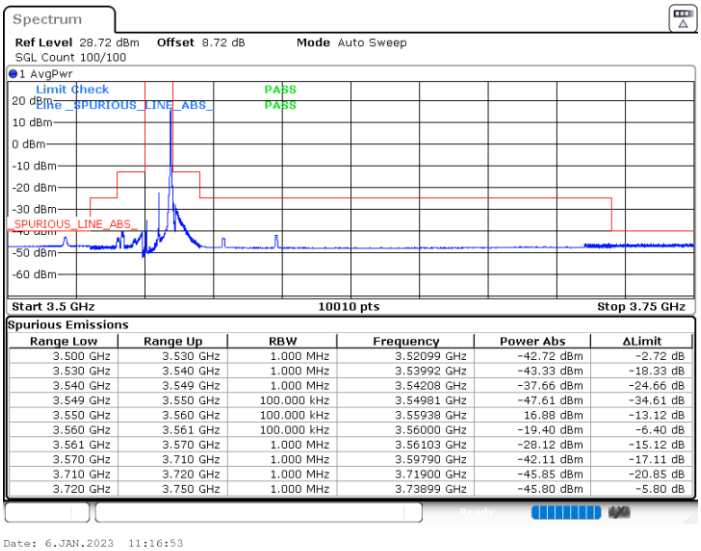


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51212 GHz	-43.01 dBm	-3.01 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53097 GHz	-43.37 dBm	-18.37 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54896 GHz	-27.24 dBm	-14.24 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54999 GHz	-18.27 dBm	-5.27 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55055 GHz	17.01 dBm	-12.99 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56018 GHz	-47.39 dBm	-34.39 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56109 GHz	-40.74 dBm	-27.74 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.58881 GHz	-42.30 dBm	-17.30 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71880 GHz	-45.98 dBm	-20.98 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73482 GHz	-45.81 dBm	-5.81 dB

Date: 6.JAN.2023 11:15:13

Lowest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52099 GHz	-42.72 dBm	-2.72 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53992 GHz	-43.33 dBm	-18.33 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54208 GHz	-37.66 dBm	-24.66 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54981 GHz	-47.61 dBm	-34.61 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55938 GHz	16.88 dBm	-13.12 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56000 GHz	-19.40 dBm	-6.40 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56103 GHz	-28.12 dBm	-15.12 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.59790 GHz	-42.11 dBm	-17.11 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71900 GHz	-45.85 dBm	-20.85 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73899 GHz	-45.80 dBm	-5.80 dB

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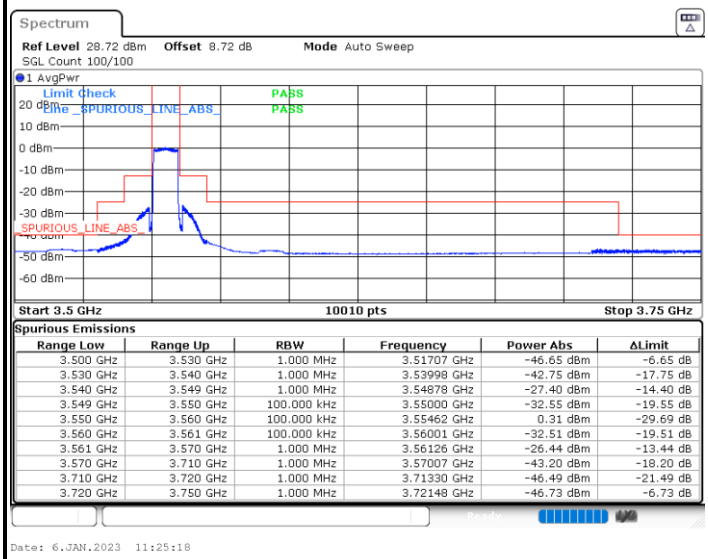
Lowest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51707 GHz	-46.65 dBm	-6.65 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53998 GHz	-42.75 dBm	-17.75 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54878 GHz	-27.40 dBm	-14.40 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.55000 GHz	-32.55 dBm	-19.55 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55462 GHz	0.31 dBm	-29.69 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56001 GHz	-32.51 dBm	-19.51 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56126 GHz	-26.44 dBm	-13.44 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.57007 GHz	-43.20 dBm	-18.20 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71330 GHz	-46.49 dBm	-21.49 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72148 GHz	-46.73 dBm	-6.73 dB

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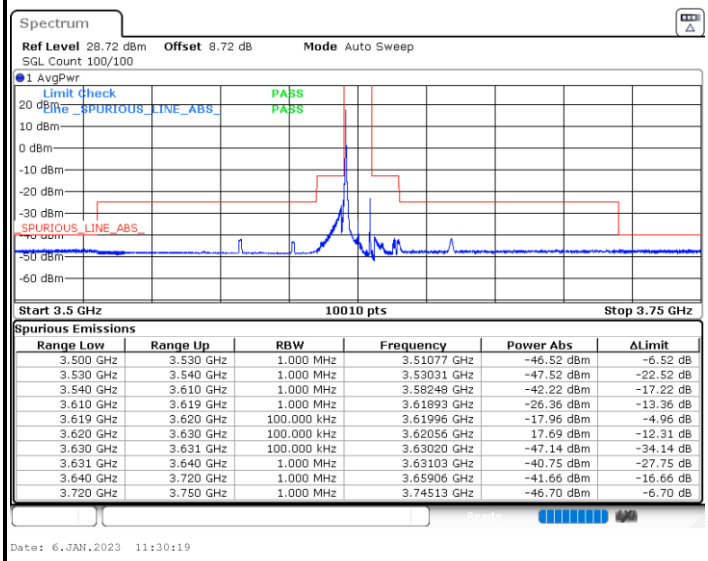
N/A

LTE Band 48 / 10MHz

64QAM

Middle Channel / 1RB0

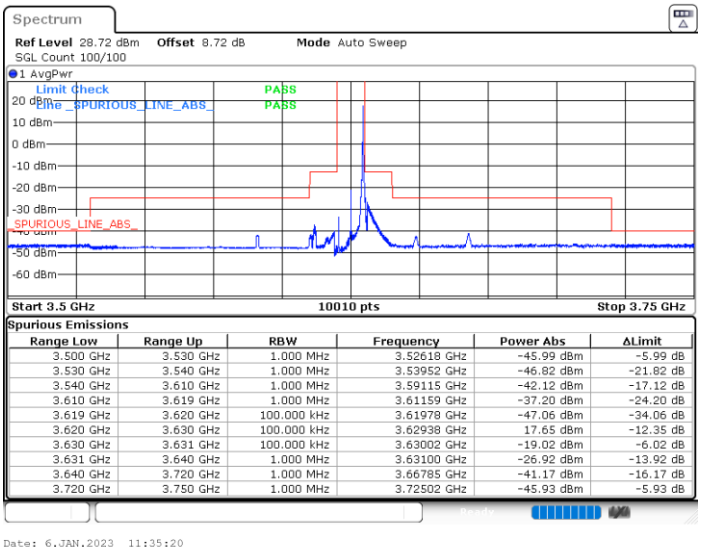


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51077 GHz	-46.52 dBm	-6.52 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53031 GHz	-47.52 dBm	-22.52 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.58248 GHz	-42.22 dBm	-17.22 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61893 GHz	-26.36 dBm	-13.36 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61996 GHz	-17.96 dBm	-4.96 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62056 GHz	17.69 dBm	-12.31 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63020 GHz	-47.14 dBm	-34.14 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63103 GHz	-40.75 dBm	-27.75 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.65906 GHz	-41.66 dBm	-16.66 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74513 GHz	-46.70 dBm	-6.70 dB

Date: 6.JAN.2023 11:30:19

Middle Channel / 1RBmax

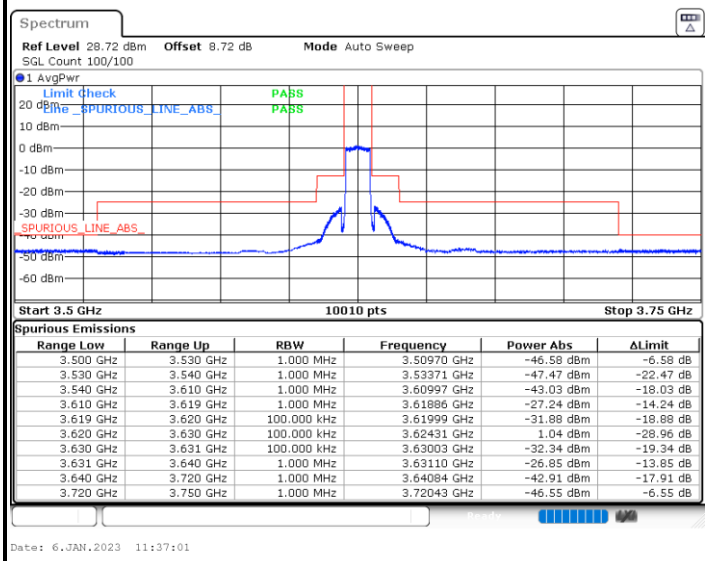


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52618 GHz	-45.99 dBm	-5.99 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53952 GHz	-46.82 dBm	-21.82 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.59115 GHz	-42.12 dBm	-17.12 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61159 GHz	-37.20 dBm	-24.20 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61978 GHz	-47.06 dBm	-34.06 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62938 GHz	17.65 dBm	-12.35 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63002 GHz	-19.02 dBm	-6.02 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63100 GHz	-26.92 dBm	-13.92 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.66785 GHz	-41.17 dBm	-16.17 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72502 GHz	-45.93 dBm	-5.93 dB

Date: 6.JAN.2023 11:35:20

Middle Channel / Full



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50970 GHz	-46.58 dBm	-6.58 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53371 GHz	-47.47 dBm	-22.47 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.60997 GHz	-43.03 dBm	-18.03 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61886 GHz	-27.24 dBm	-14.24 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61999 GHz	-31.88 dBm	-18.88 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62431 GHz	1.04 dBm	-28.96 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63003 GHz	-32.34 dBm	-19.34 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63110 GHz	-26.85 dBm	-13.85 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64084 GHz	-42.91 dBm	-17.91 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72043 GHz	-46.55 dBm	-6.55 dB

Date: 6.JAN.2023 11:37:01

N/A