FCC RF Test Report

APPLICANT	: Fibocom Wireless Inc.
EQUIPMENT	: LTE Module
BRAND NAME	: Fibocom
MODEL NAME	: L860-GL-16
FCC ID	: ZMOL860GL16
STANDARD	: 47 CFR Part 2, 96
CLASSIFICATION	: Citizens Band End User Devices (CBE)
EQUIPMENT TYPE	: End User Equipment

The product was received on Oct. 30, 2020 and completely tested on Feb. 03, 2021. We, Sporton International (Kunshan) Inc., 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

James Huang

Approved by: James Huang / Manager

ACCREDITED
Cert #5145.02

Sporton International (Kunshan) Inc.

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

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Appendix A. Test Results of Conducted Test

Appendix B. Test Results of Radiated Test

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History of this test report

Report No.	Version	Description	Issued Date
FG0O3022F	01	Initial issue of report	Feb. 07, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Required	Not applicable for End User Devices
3.3	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Not Required	Not applicable for End User Devices
3.4	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio	Pass	-
3.6	§2.1051 §96.41	Conducted Spurious Emission	Pass	
3.7	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 18.85 dB at 14724.000 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

Fibocom Wireless Inc.
1101,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,Shenzhen, China

1.2 Manufacturer

Fibocom Wireless Inc.
1101,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,Shenzhen, China

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	LTE Module
Brand Name	Fibocom
Model Name	L860-GL-16
FCC ID	ZMOL860GL16
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	20.88 dBm
Type of Modulation	QPSK / 16QAM / 64QAM
HW Version	V1.3
SW Version	18601.5001.00.01.01.01
EUT Stage	Identical Prototype

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

1.4 Maximum Conducted Power, Frequency Tolerance, and Emission Designator

LTE Band 48		QPSK			16QAM		
BW (MHz)	**Frequency Range (MHz)**	**Emission Designator (99%OBW)**	**Frequency Tolerance (ppm)**	**Maximum Conducted power (W)**	**Emission Designator (99%OBW)**	**Frequency Tolerance (ppm)**	**Maximum Conducted power (W)**
20	**3560~3690**	18M0G7D	0.0043	0.1225	17M9W7D	-	0.1019

Note: Based on engineering evaluation, only the maximum bandwidth and the worst modulation test results are shown in the report.

1.5 Testing Site

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

Test Firm	Sporton International (Kunshan) Inc.		
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.**
	03CH06-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH06-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
- ANSI / TIA-603-E
- 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.

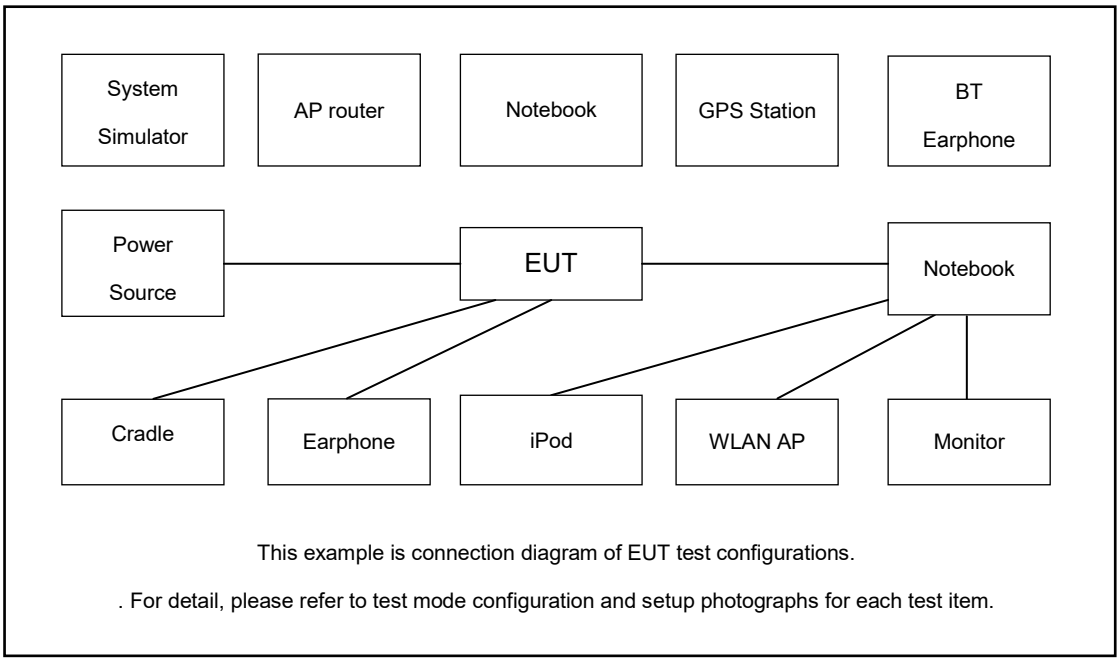
2 Test Configuration of Equipment Under Test

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.

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	v
26dB and 99% Bandwidth	48	-	-				v	v	v				v		v	
Conducted Band Edge	48	-	-	v	v	v	v	v	v		v		v	v		v
Conducted Spurious Emission	48	-	-	v	v	v	v	v	v		v		v	v	v	v
E.R.P / E.I.R.P	48	-	-	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	v	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. 4. All the radiated test cases were performed with Adapter.															

2.2 Connection Diagram of Test System



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.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	Test jig	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between 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 and attenuator factor.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 8.72 dB.

Example :

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

= 8.72 (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

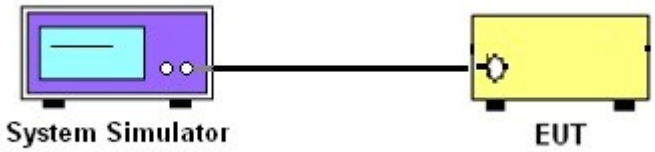
3 Conducted Test Items

3.1 Measuring Instruments

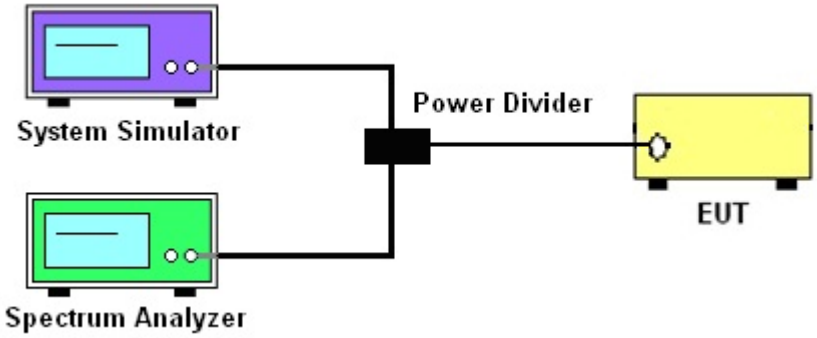
See list of measuring instruments of this test report.

3.1.1 Test Setup

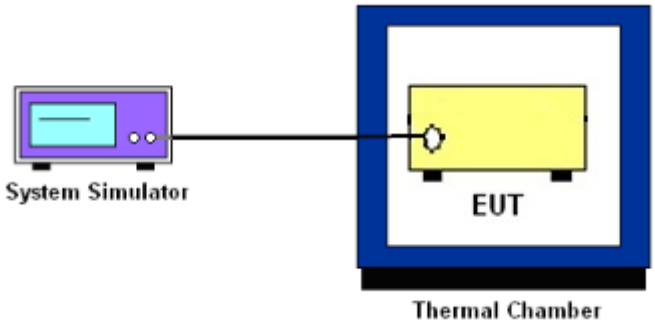
3.1.2 Conducted Output Power



3.1.3 PSD, 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 EIRP

3.3.1 Description of the EIRP Measurement

EIRP and PSD limits for CBRS equipment as below table:

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

3.3.2 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 Occupied Bandwidth

3.4.1 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.

3.4.2 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.

3.5 Conducted Band Edge

3.5.1 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) (1) (ii)

For End User Devices the emission limits outside the fundamental are as follows:

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

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

where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device.

Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

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

3.5.2 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.

3.6 Conducted Spurious Emission

3.6.1 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.

3.6.2 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 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.

3.7 Frequency Stability

3.7.1 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

3.7.2 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.

3.7.3 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.

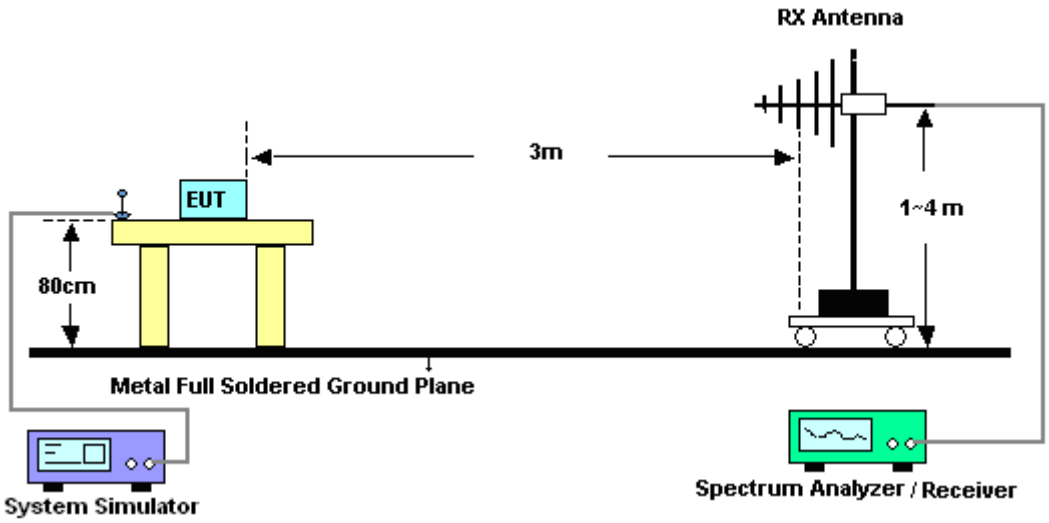
4 Radiated Test Items

4.1 Measuring Instruments

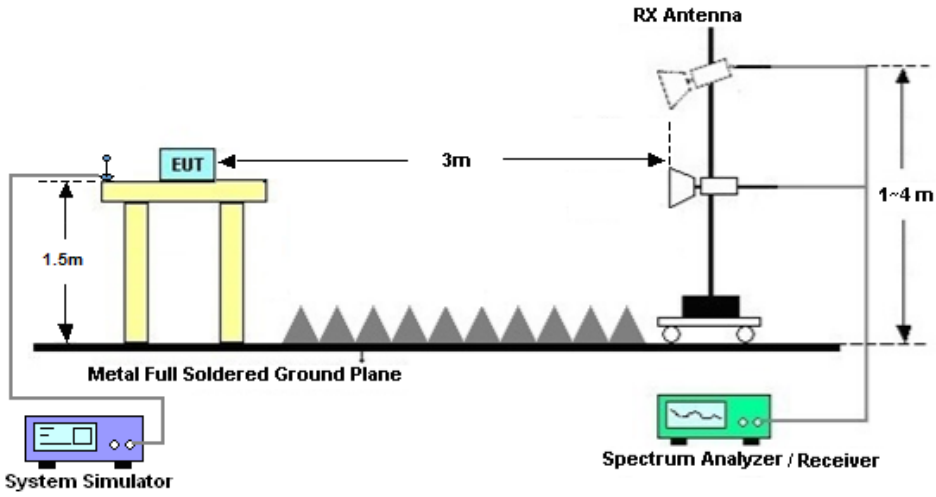
See list of measuring instruments of this test report.

4.2 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



4.3 Test Result of Radiated Test

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 / TIA-603-E. 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	Nov. 01, 2020	Feb. 03, 2021	Oct. 31, 2021	Conducted (TH01-KS)
Temperature &humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 03, 2020	Feb. 03, 2021	Jul. 02, 2021	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 14, 2020	Jan. 10, 2021	Apr. 13, 2021	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 29, 2020	Jan. 10, 2021	May 28, 2021	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 27, 2020	Jan. 10, 2021	Apr. 26, 2021	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 06, 2020	Jan. 10, 2021	Nov. 05, 2021	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Apr. 14, 2020	Jan. 10, 2021	Apr. 13, 2021	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 07, 2021	Jan. 10, 2021	Jan. 06, 2022	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Jan. 10, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 15, 2020	Jan. 10, 2021	Apr. 14. 2021	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 10, 2021	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 10, 2021	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 10, 2021	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.1dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.1dB

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				55340	55990	56640
Frequency (MHz)				3560	3625	3690
20	QPSK	1	0	20.65	20.77	20.70
20	QPSK	1	99	20.60	20.88	20.64
20	QPSK	100	0	19.50	19.75	19.60
20	16QAM	1	0	19.88	19.96	19.85
20	64QAM	1	0	18.60	18.91	18.85
Channel				55315	55990	56665
Frequency (MHz)				3557.5	3625	3692.5
15	QPSK	1	0	20.63	20.75	20.66
15	16QAM	1	0	19.76	20.08	19.78
15	64QAM	1	0	18.52	18.86	18.82
Channel				55290	55990	56690
Frequency (MHz)				3555.5	3625	3695
10	QPSK	1	0	20.65	20.80	20.62
10	16QAM	1	0	19.60	19.73	19.77
10	64QAM	1	0	18.85	19.14	18.85
Channel				55265	55990	56715
Frequency (MHz)				3552.5	3625	3697.5
5	QPSK	1	0	20.53	20.69	20.59
5	16QAM	1	0	19.95	19.85	19.82
5	64QAM	1	0	19.52	19.21	19.06

EIRP

LTE Band 48 (GT - LC = 1.0 dB) QPSK			
Bandwidth	5M		
Channel	55265	55990	56715
	(Low)	(Mid)	(High)
Frequency (MHz)	3552.5	3625	3697.5
Conducted Power (dBm)	20.53	20.69	20.59
Conducted Power (Watts)	0.1130	0.1172	0.1146
EIRP(dBm)	21.53	21.69	21.59
EIRP(Watts)	0.1422	0.1476	0.1442

LTE Band 48 (GT - LC = 1.0 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	55290	55990	56690	55315	55990	56665	55340	55990	56640
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	3555	3625	3695	3557.5	3625	3692.5	3560	3625	3690
Conducted Power (dBm)	20.65	20.80	20.62	20.63	20.75	20.66	20.60	20.88	20.64
Conducted Power (Watts)	0.1161	0.1202	0.1153	0.1156	0.1189	0.1164	0.1148	0.1225	0.1159
EIRP(dBm)	21.65	21.80	21.62	21.63	21.75	21.66	21.60	21.88	21.64
EIRP(Watts)	0.1462	0.1514	0.1452	0.1455	0.1496	0.1466	0.1445	0.1542	0.1459

LTE Band 48 (GT - LC = 1.0 dB) 16QAM			
Bandwidth	5M		
Channel	55265	55990	56715
	(Low)	(Mid)	(High)
Frequency (MHz)	3552.5	3625	3697.5
Conducted Power (dBm)	19.95	19.85	19.82
Conducted Power (Watts)	0.0989	0.0966	0.0959
EIRP(dBm)	20.95	20.85	20.82
EIRP(Watts)	0.1245	0.1216	0.1208

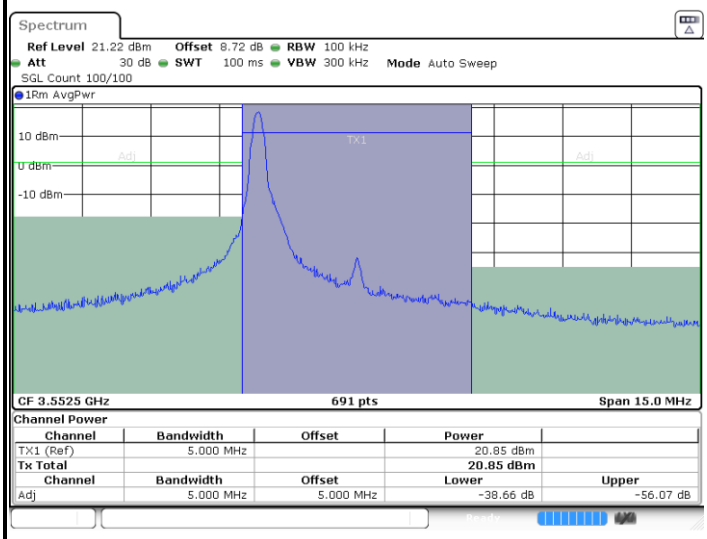
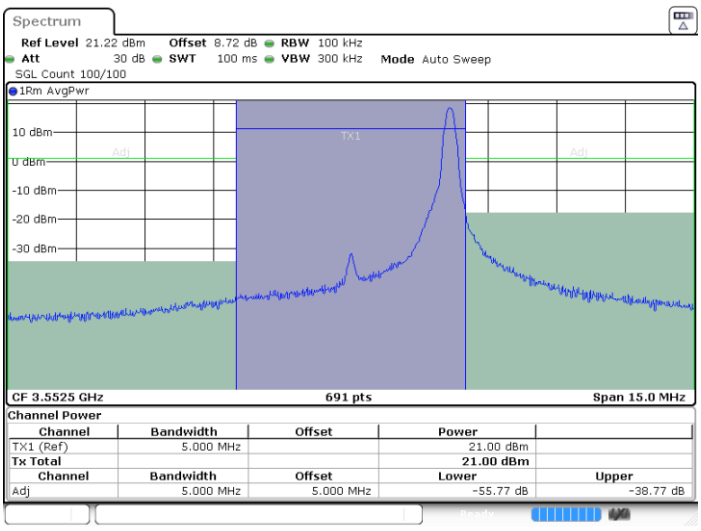
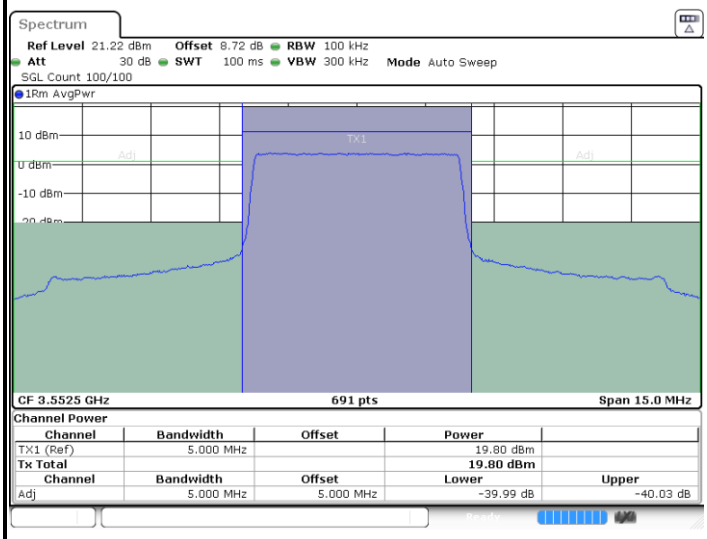
LTE Band 48 (GT - LC = 1.0 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	55290	55990	56690	55315	55990	56665	55340	55990	56640
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	3555	3625	3695	3557.5	3625	3692.5	3560	3625	3690
Conducted Power (dBm)	19.60	19.73	19.77	19.76	20.08	19.78	19.88	19.96	19.85
Conducted Power (Watts)	0.0912	0.0940	0.0948	0.0946	0.1019	0.0951	0.0973	0.0991	0.0966
EIRP(dBm)	20.60	20.73	20.77	20.76	21.08	20.78	20.88	20.96	20.85
EIRP(Watts)	0.1148	0.1183	0.1194	0.1191	0.1282	0.1197	0.1225	0.1247	0.1216

LTE Band 48 (GT - LC = 1.0 dB) 64QAM			
Bandwidth	5M		
Channel	55265	55990	56715
	(Low)	(Mid)	(High)
Frequency (MHz)	3552.5	3625	3697.5
Conducted Power (dBm)	19.52	19.21	19.06
Conducted Power (Watts)	0.0895	0.0834	0.0805
EIRP(dBm)	20.52	20.21	20.06
EIRP(Watts)	0.1127	0.1050	0.1014

LTE Band 48 (GT - LC = 1.0 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	55290	55990	56690	55315	55990	56665	55340	55990	56640
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	3555	3625	3695	3557.5	3625	3692.5	3560	3625	3690
Conducted Power (dBm)	18.85	19.14	18.85	18.52	18.86	18.82	18.60	18.91	18.85
Conducted Power (Watts)	0.0767	0.0820	0.0767	0.0711	0.0769	0.0762	0.0724	0.0778	0.0767
EIRP(dBm)	19.85	20.14	19.85	19.52	19.86	19.82	19.60	19.91	19.85
EIRP(Watts)	0.0966	0.1033	0.0966	0.0895	0.0968	0.0959	0.0912	0.0979	0.0966

LTE Band 48

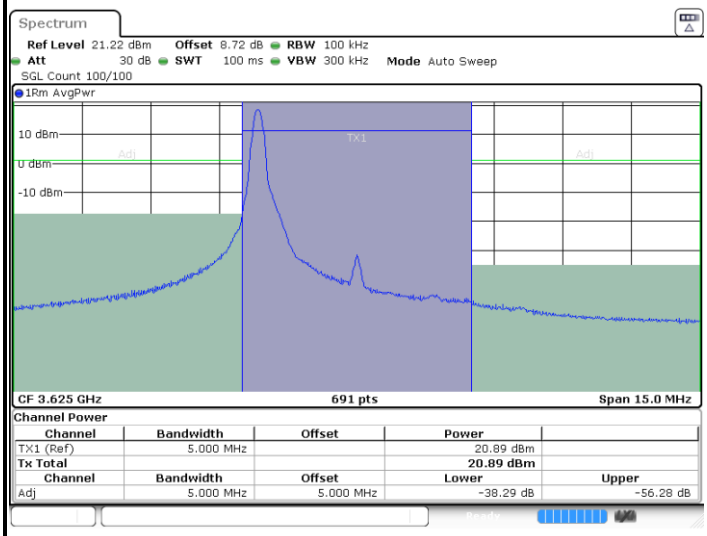
ACLR

LTE Band 48 / 5MHz	
QPSK	
Lowest Channel / 1RB0	Lowest Channel / 1RBmax
	
Lowest Channel / Full RB	N/A
	

LTE Band 48 / 5MHz

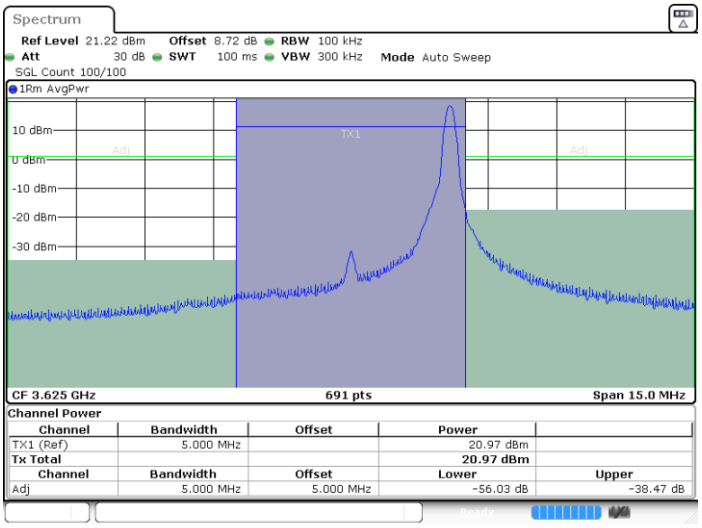
QPSK

Middle Channel / 1RB0



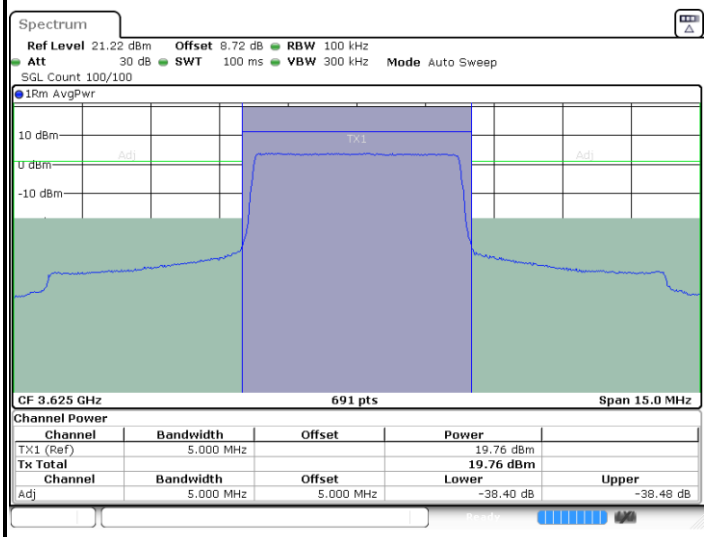
Date: 3.FEB.2021 11:29:15

Middle Channel / 1RBmax



Date: 3.FEB.2021 11:32:37

Middle Channel / Full RB



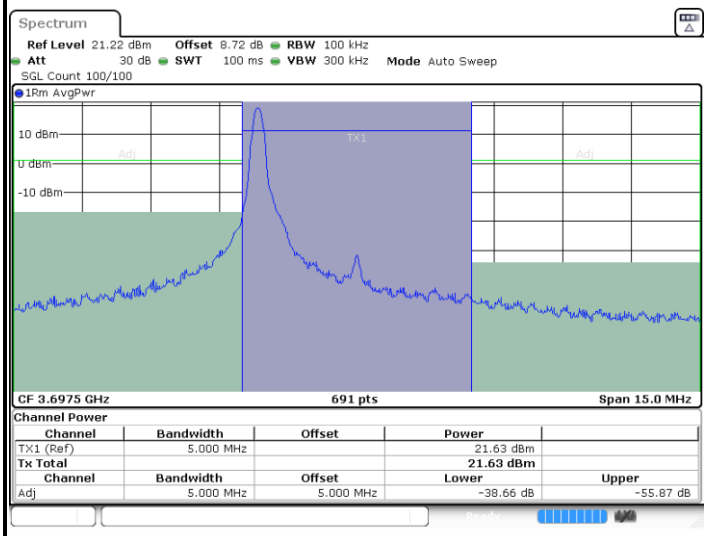
Date: 3.FEB.2021 11:33:35

N/A

LTE Band 48 / 5MHz

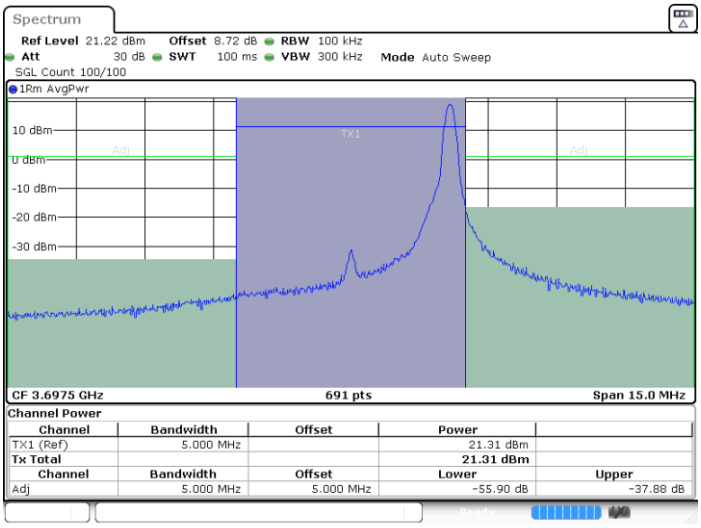
QPSK

Highest Channel / 1RB0



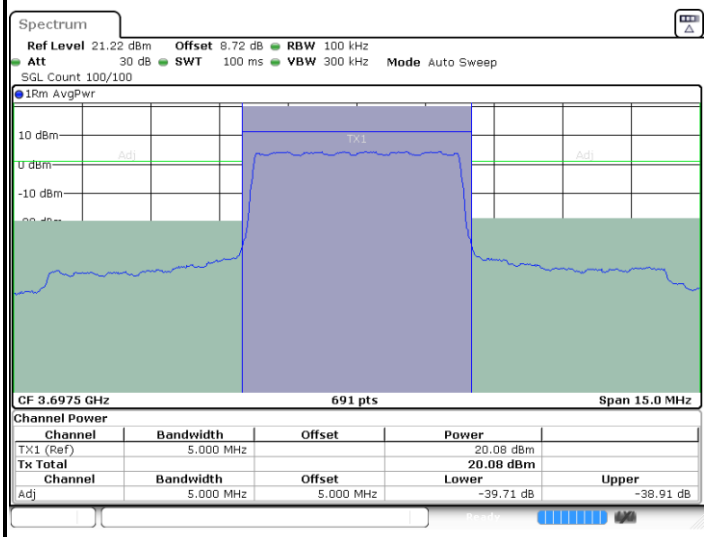
Date: 3.FEB.2021 13:00:30

Highest Channel / 1RBmax



Date: 3.FEB.2021 13:02:27

Highest Channel / Full RB



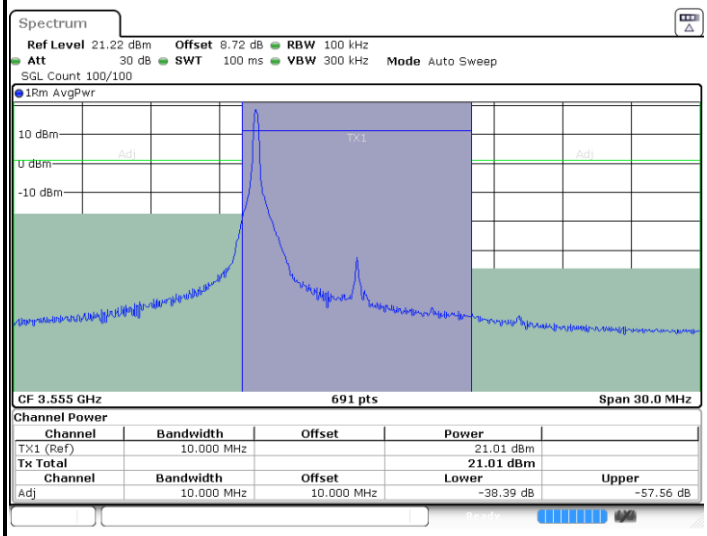
Date: 3.FEB.2021 13:05:28

N/A

LTE Band 48 / 10MHz

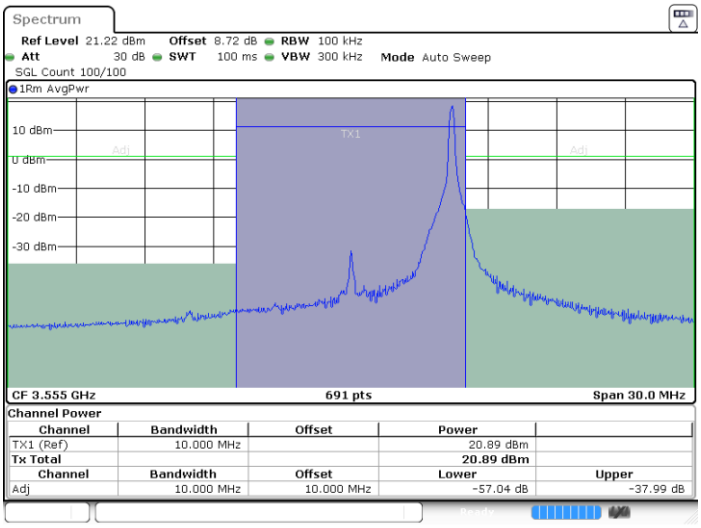
QPSK

Lowest Channel / 1RB0



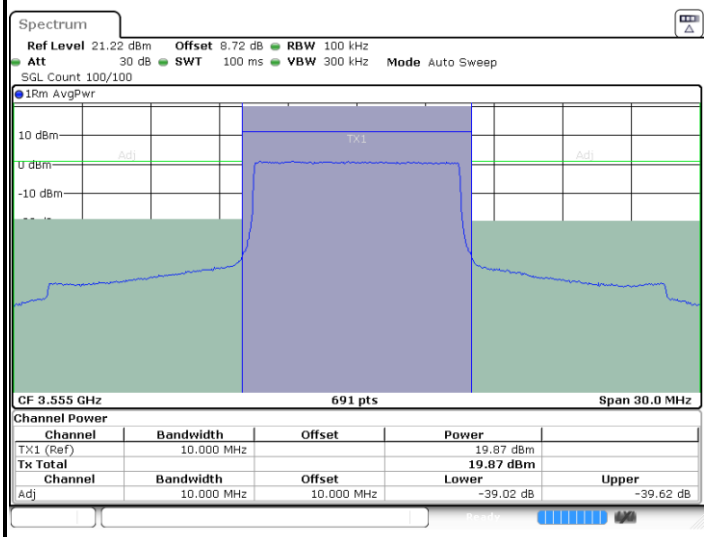
Date: 3.FEB.2021 13:33:28

Lowest Channel / 1RBmax



Date: 3.FEB.2021 13:35:28

Lowest Channel / Full RB



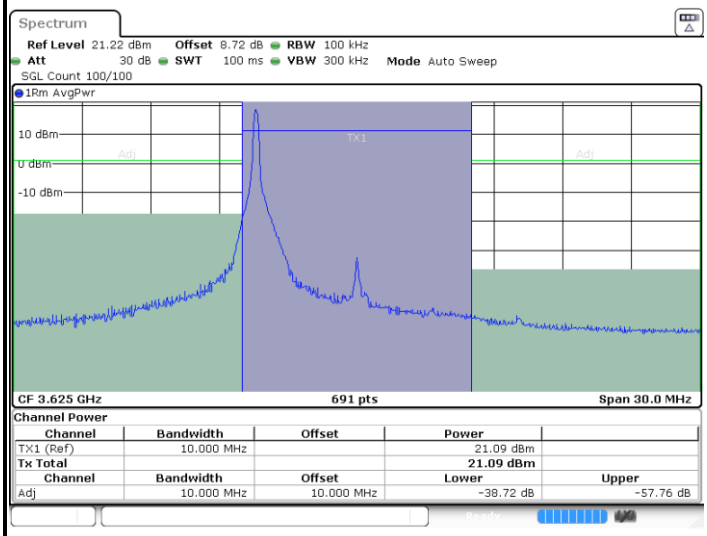
Date: 3.FEB.2021 13:36:40

N/A

LTE Band 48 / 10MHz

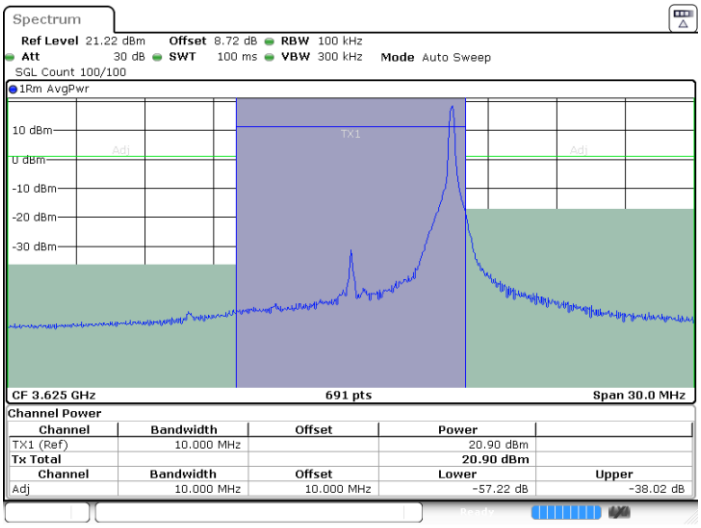
QPSK

Middle Channel / 1RB0



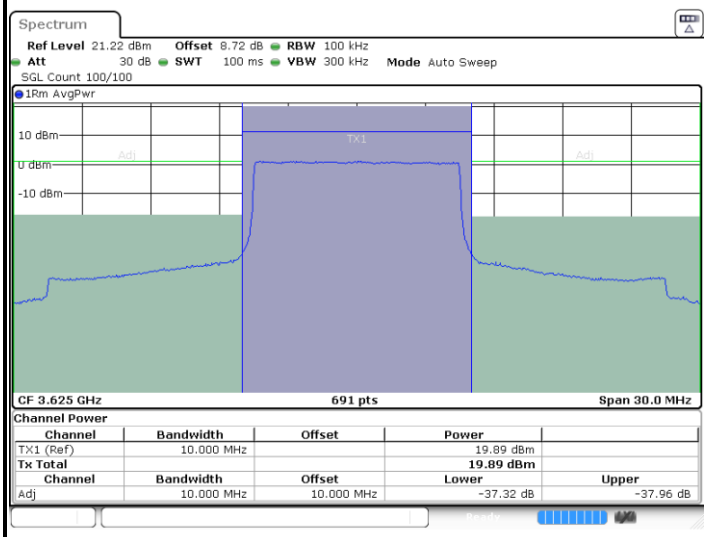
Date: 3.FEB.2021 13:48:58

Middle Channel / 1RBmax



Date: 3.FEB.2021 13:52:31

Middle Channel / Full RB



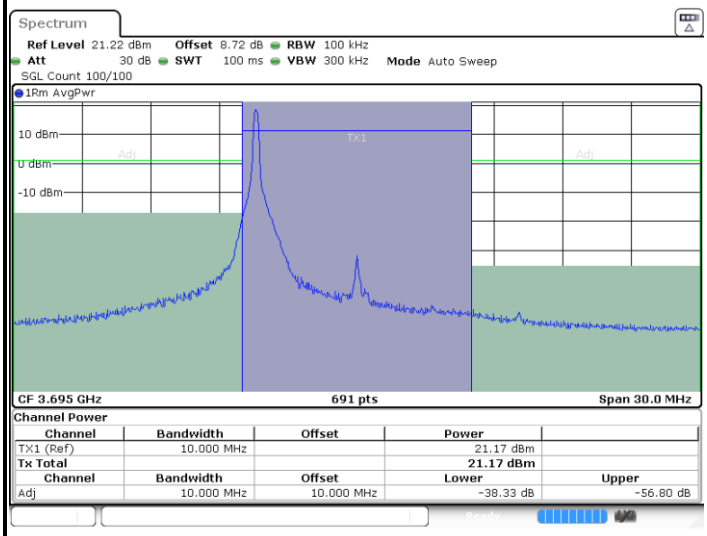
Date: 3.FEB.2021 13:50:13

N/A

LTE Band 48 / 10MHz

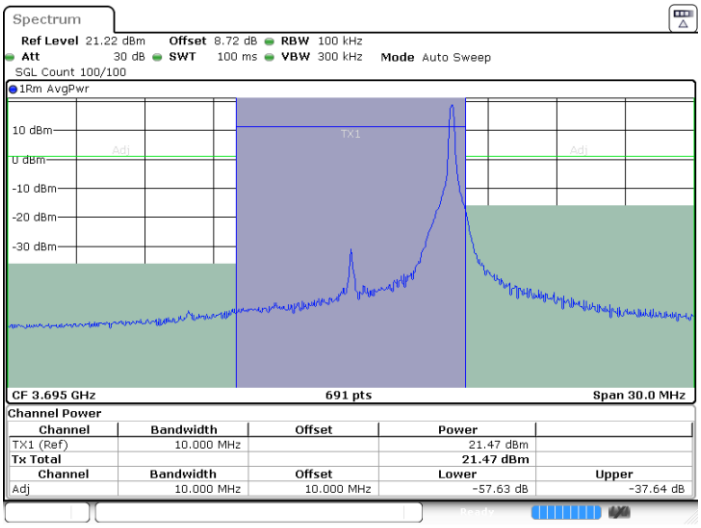
QPSK

Highest Channel / 1RB0



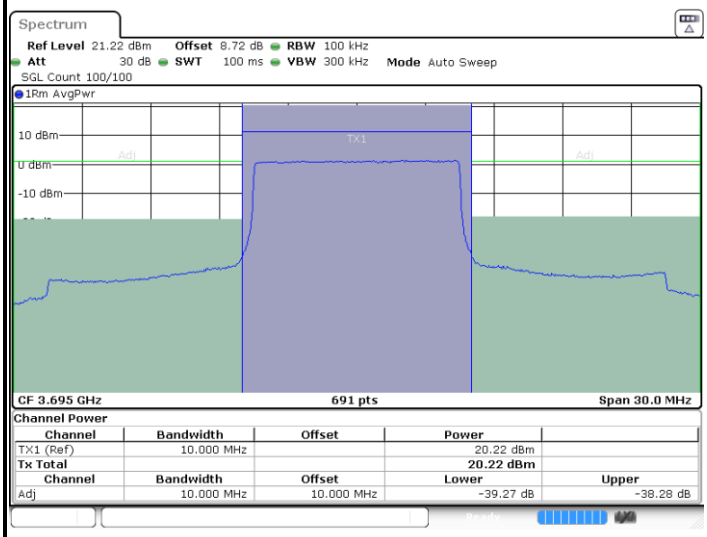
Date: 3.FEB.2021 13:53:22

Highest Channel / 1RBmax



Date: 3.FEB.2021 14:00:21

Highest Channel / Full RB



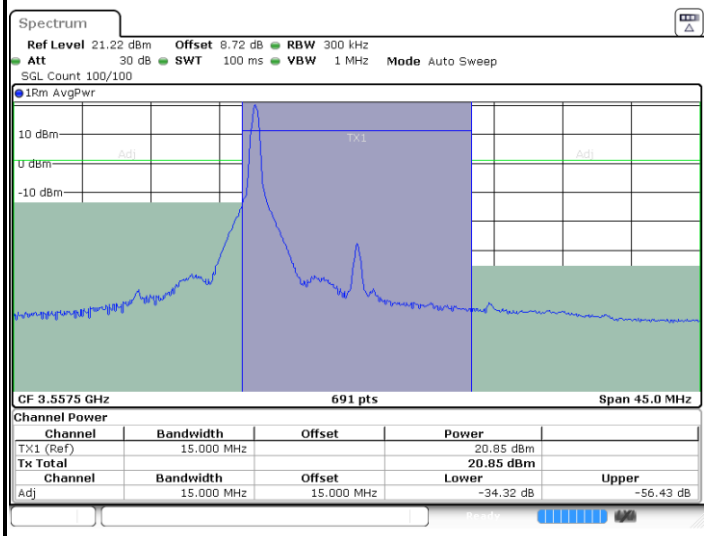
Date: 3.FEB.2021 13:57:54

N/A

LTE Band 48 / 15MHz

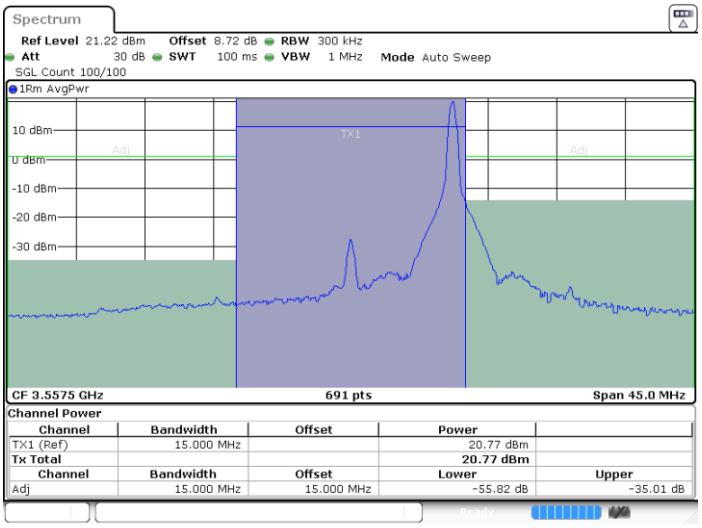
QPSK

Lowest Channel / 1RB0



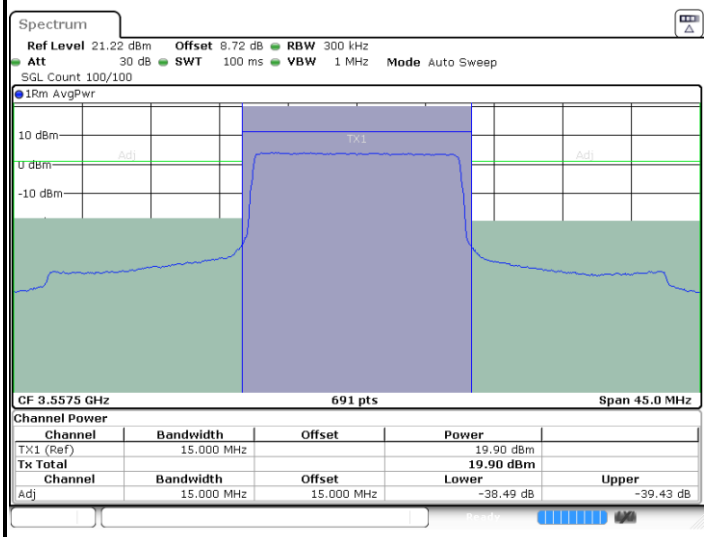
Date: 3.FEB.2021 14:02:55

Lowest Channel / 1RBmax



Date: 3.FEB.2021 14:05:55

Lowest Channel / Full RB



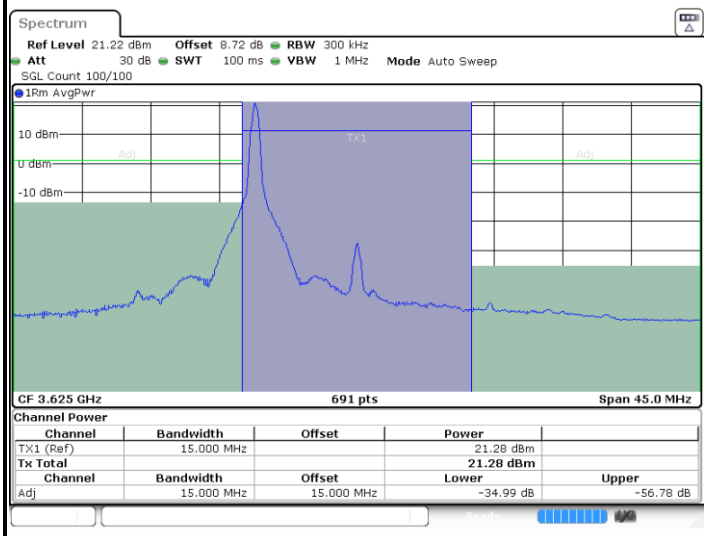
Date: 3.FEB.2021 14:06:39

N/A

LTE Band 48 / 15MHz

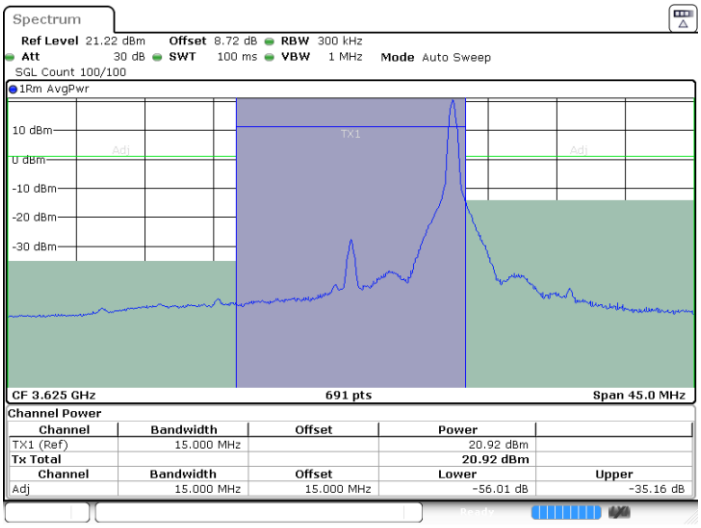
QPSK

Middle Channel / 1RB0



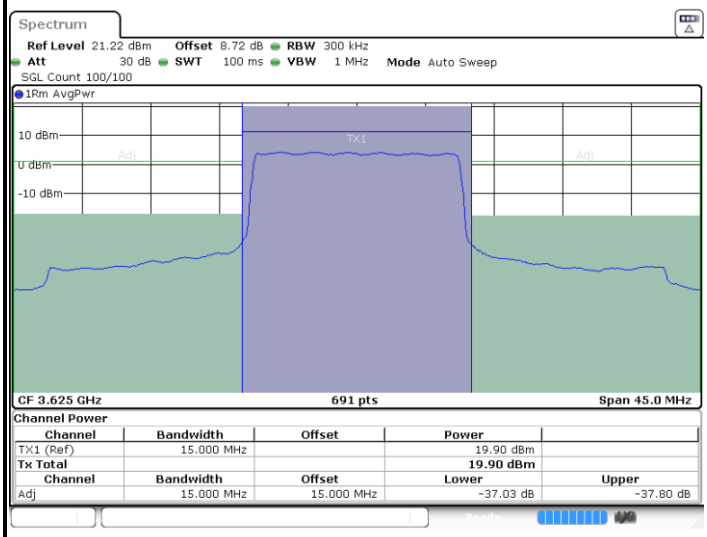
Date: 3.FEB.2021 14:09:21

Middle Channel / 1RBmax



Date: 3.FEB.2021 14:11:17

Middle Channel / Full RB



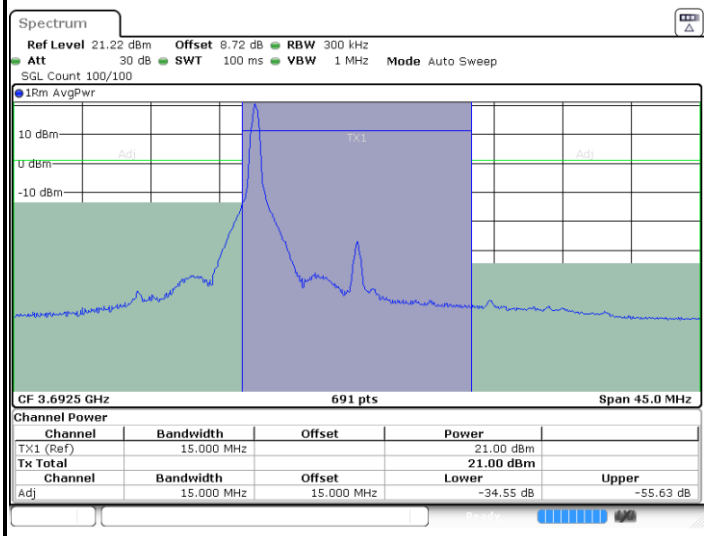
Date: 3.FEB.2021 14:08:46

N/A

LTE Band 48 / 15MHz

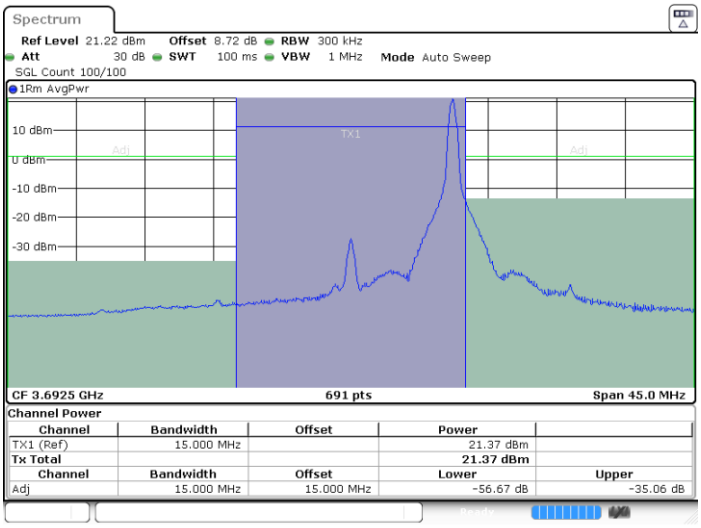
QPSK

Highest Channel / 1RB0



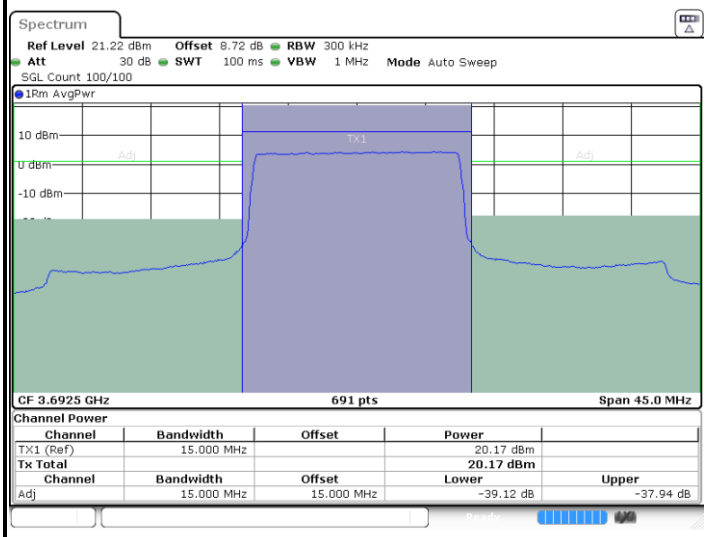
Date: 3.FEB.2021 14:14:29

Highest Channel / 1RBmax



Date: 3.FEB.2021 14:12:24

Highest Channel / Full RB



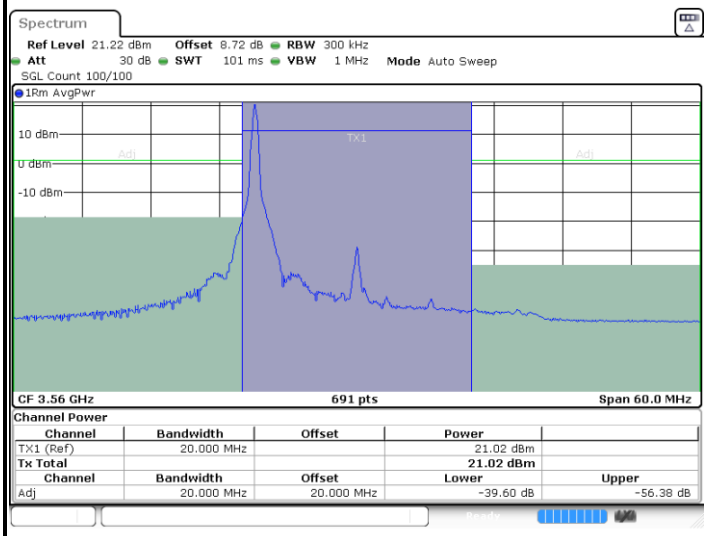
Date: 3.FEB.2021 14:15:07

N/A

LTE Band 48 / 20MHz

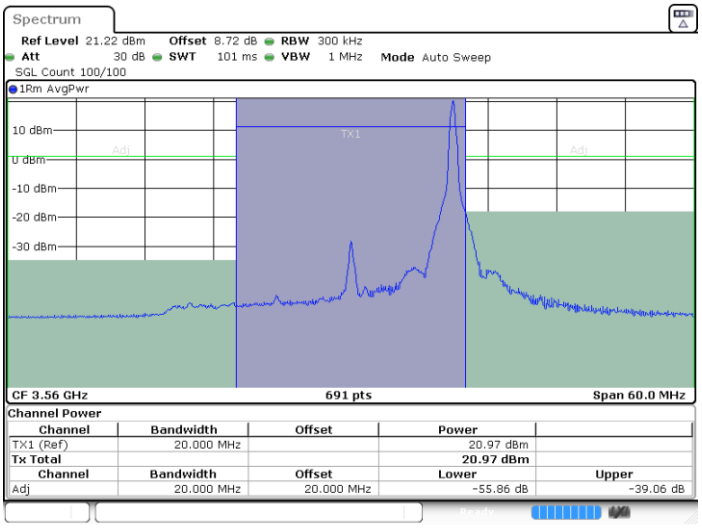
QPSK

Lowest Channel / 1RB0



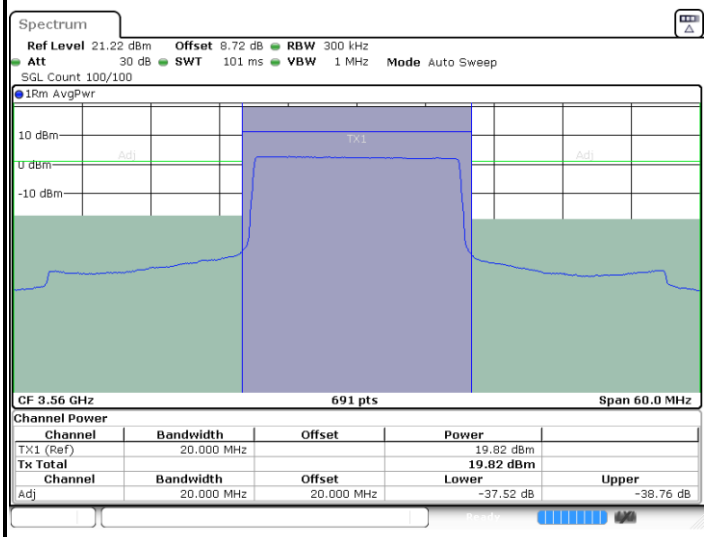
Date: 3.FEB.2021 14:21:05

Lowest Channel / 1RBmax



Date: 3.FEB.2021 14:23:27

Lowest Channel / Full RB



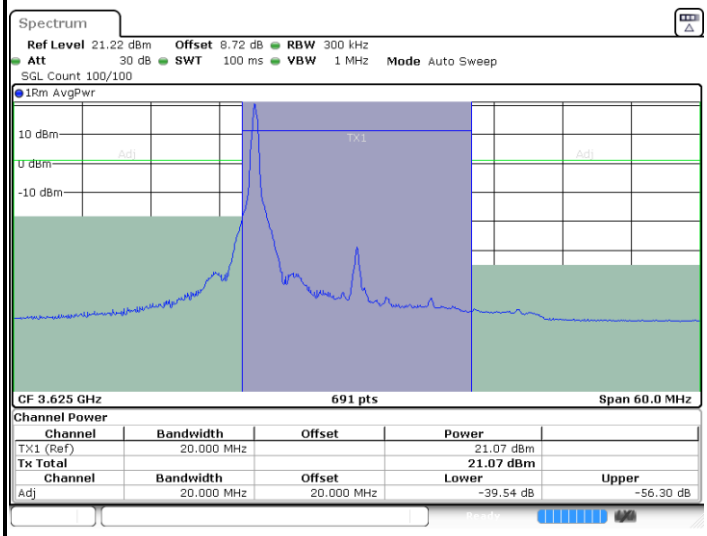
Date: 3.FEB.2021 14:20:06

N/A

LTE Band 48 / 20MHz

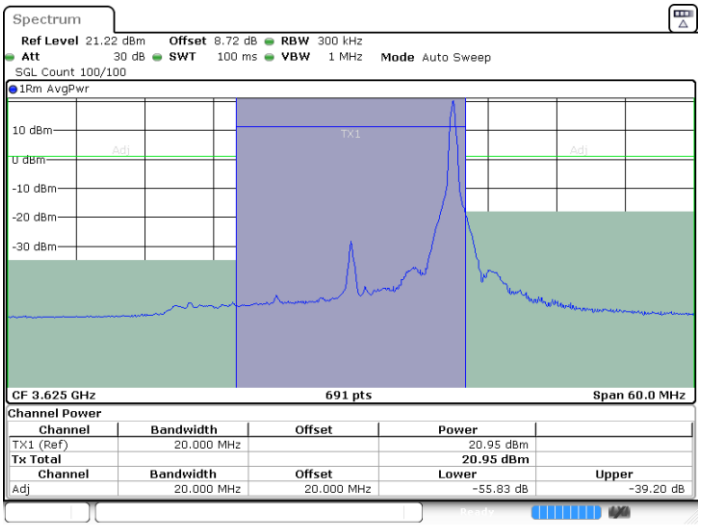
QPSK

Middle Channel / 1RB0



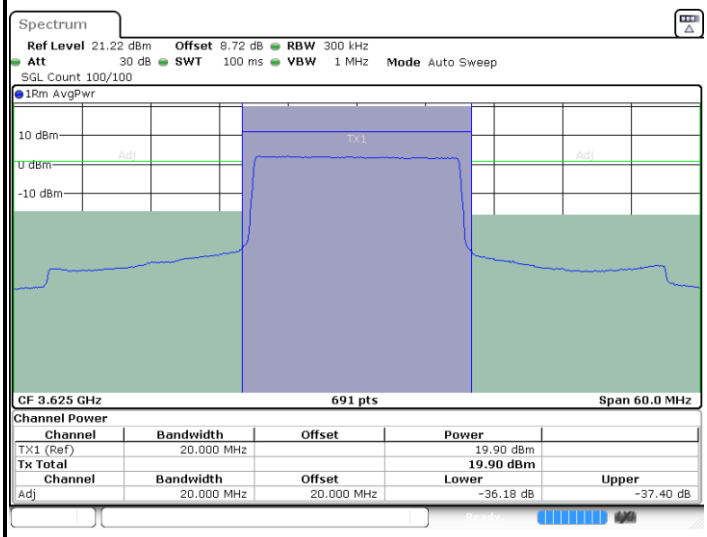
Date: 3.FEB.2021 14:28:17

Middle Channel / 1RBmax



Date: 3.FEB.2021 14:24:25

Middle Channel / Full RB



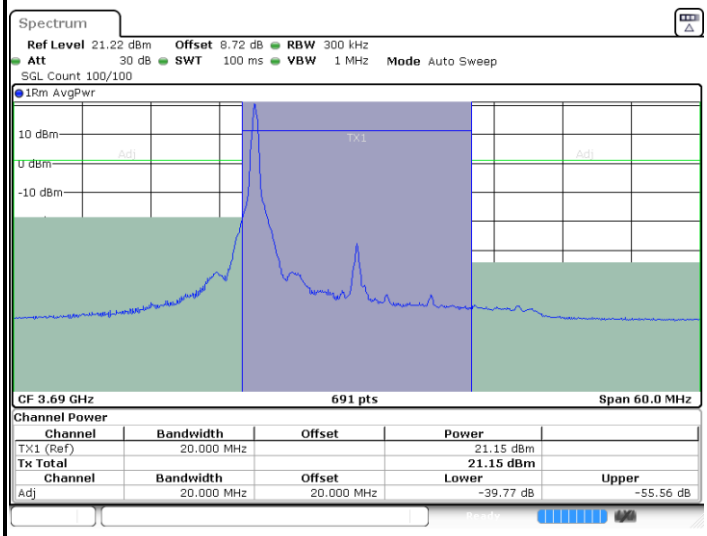
Date: 3.FEB.2021 14:29:00

N/A

LTE Band 48 / 20MHz

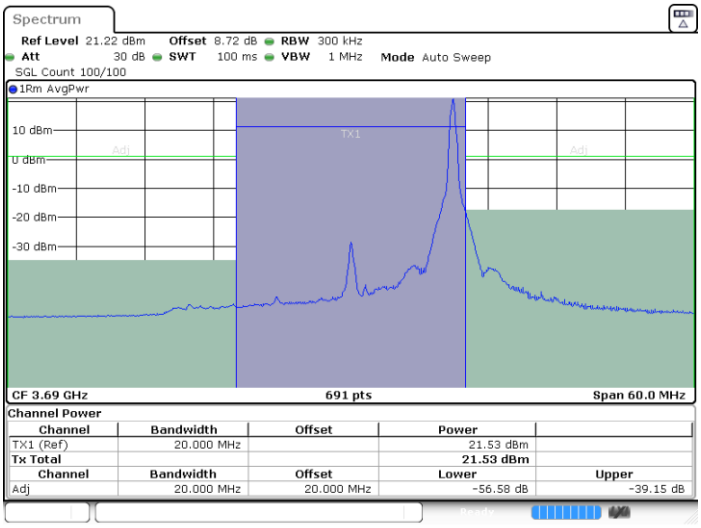
QPSK

Highest Channel / 1RB0



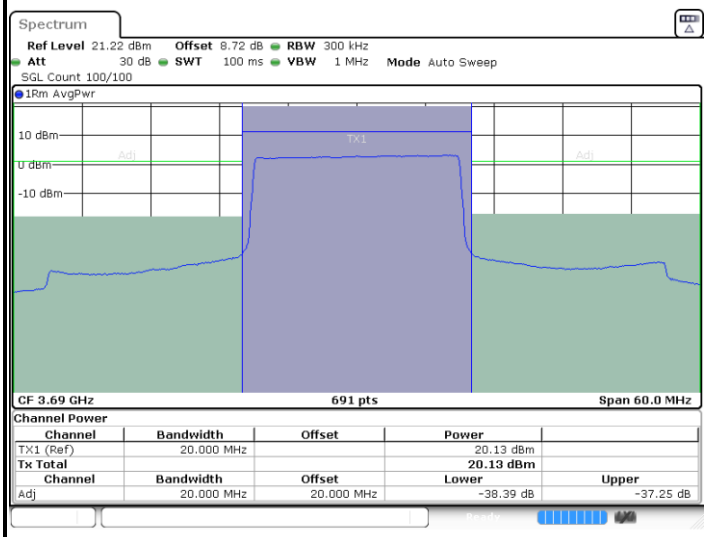
Date: 3.FEB.2021 14:31:24

Highest Channel / 1RBmax



Date: 3.FEB.2021 14:33:19

Highest Channel / Full RB



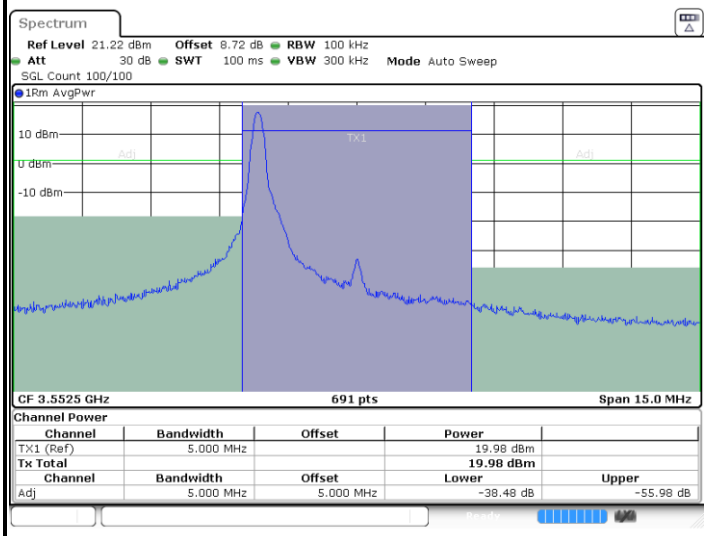
Date: 3.FEB.2021 14:30:51

N/A

LTE Band 48 / 5MHz

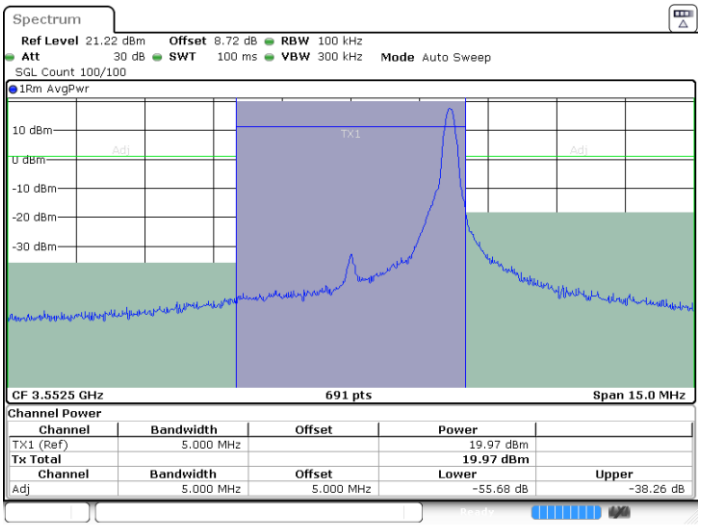
16QAM

Lowest Channel / 1RB0



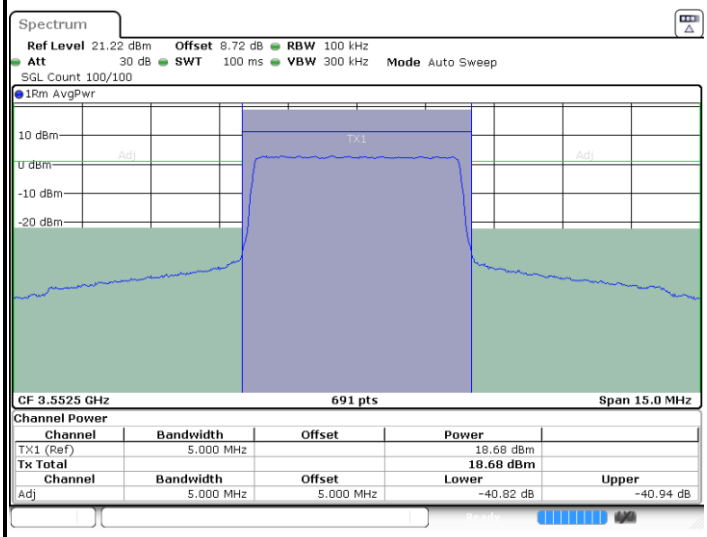
Date: 3.FEB.2021 10:52:23

Lowest Channel / 1RBmax



Date: 3.FEB.2021 11:21:26

Lowest Channel / Full RB



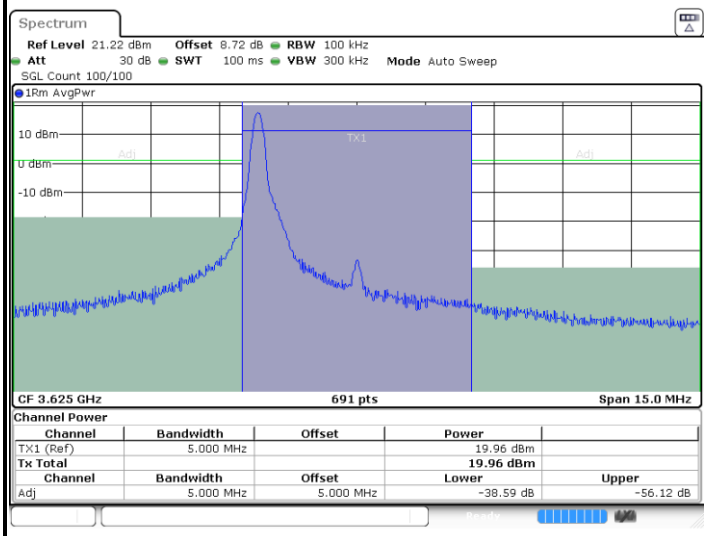
Date: 3.FEB.2021 11:25:21

N/A

LTE Band 48 / 5MHz

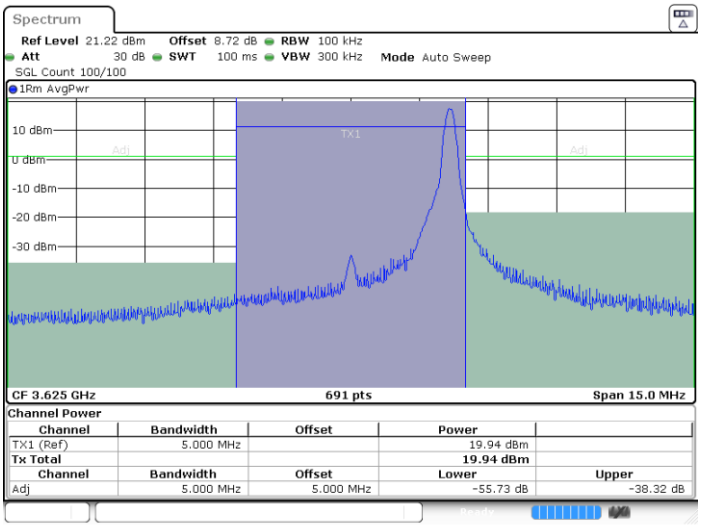
16QAM

Middle Channel / 1RB0



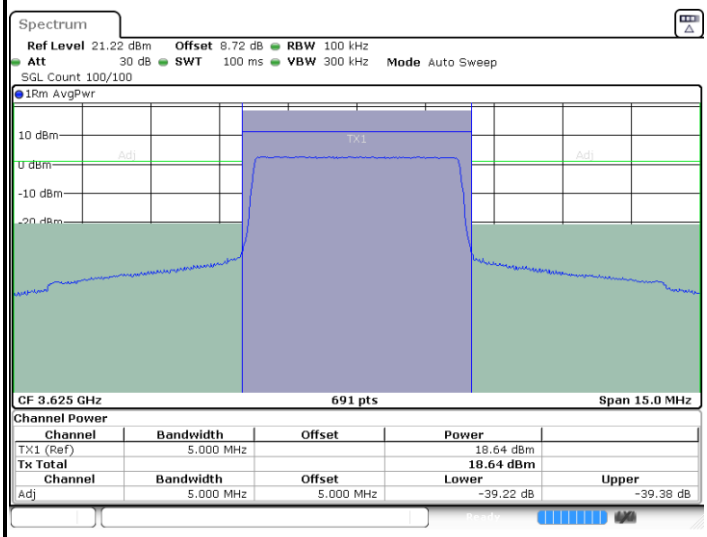
Date: 3.FEB.2021 11:29:55

Middle Channel / 1RBmax



Date: 3.FEB.2021 11:30:47

Middle Channel / Full RB



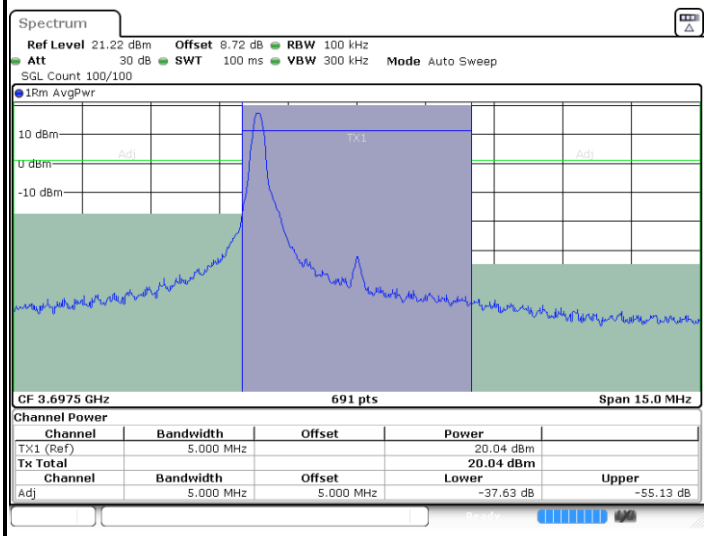
Date: 3.FEB.2021 11:34:37

N/A

LTE Band 48 / 5MHz

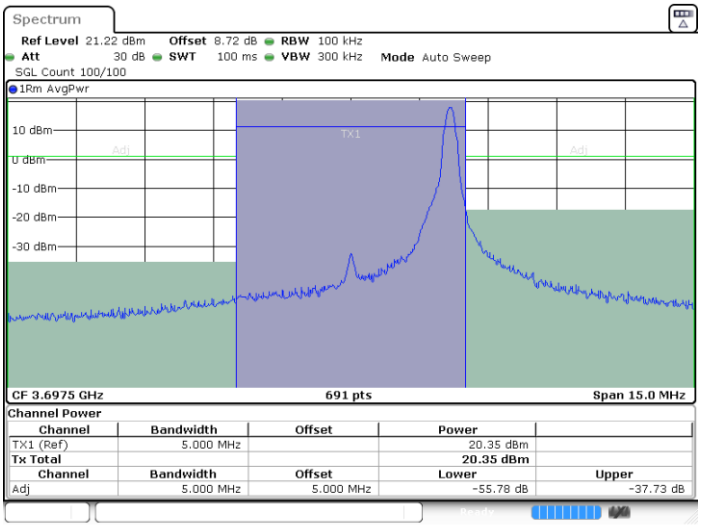
16QAM

Highest Channel / 1RB0



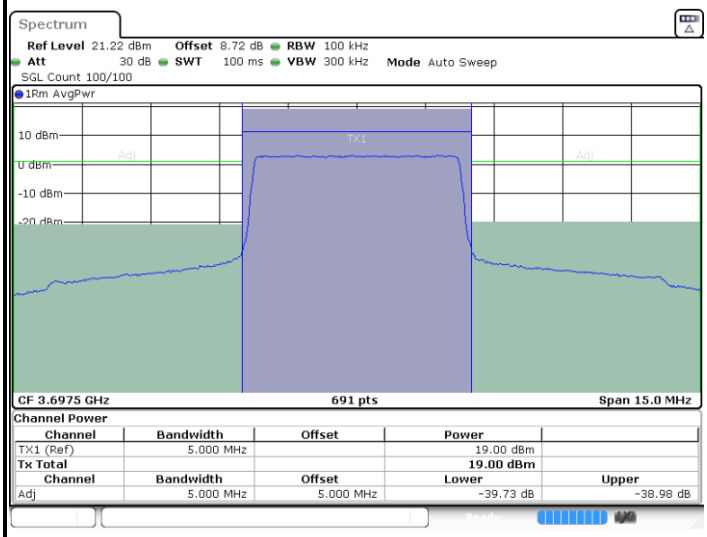
Date: 3.FEB.2021 13:01:34

Highest Channel / 1RBmax



Date: 3.FEB.2021 13:03:20

Highest Channel / Full RB



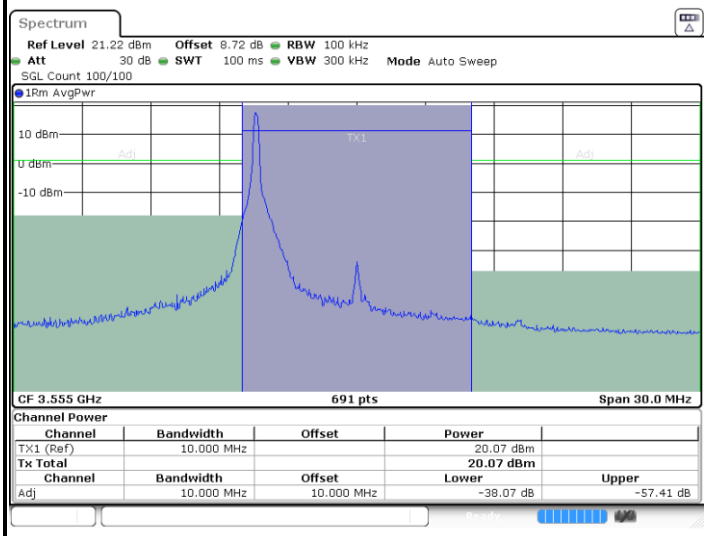
Date: 3.FEB.2021 13:04:42

N/A

LTE Band 48 / 10MHz

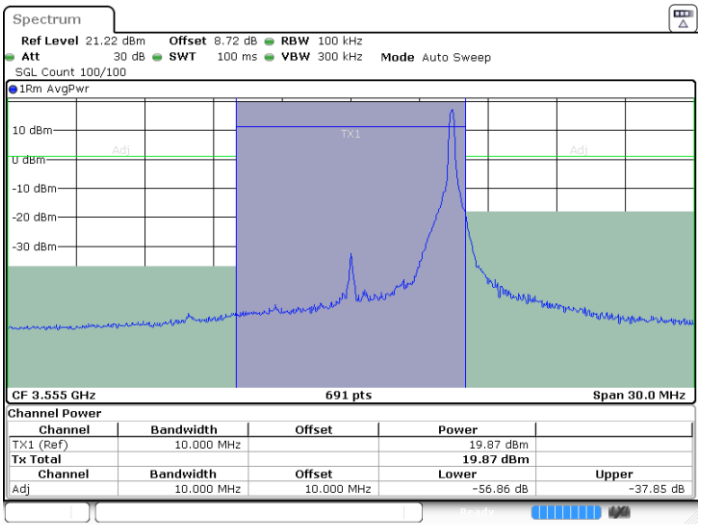
16QAM

Lowest Channel / 1RB0



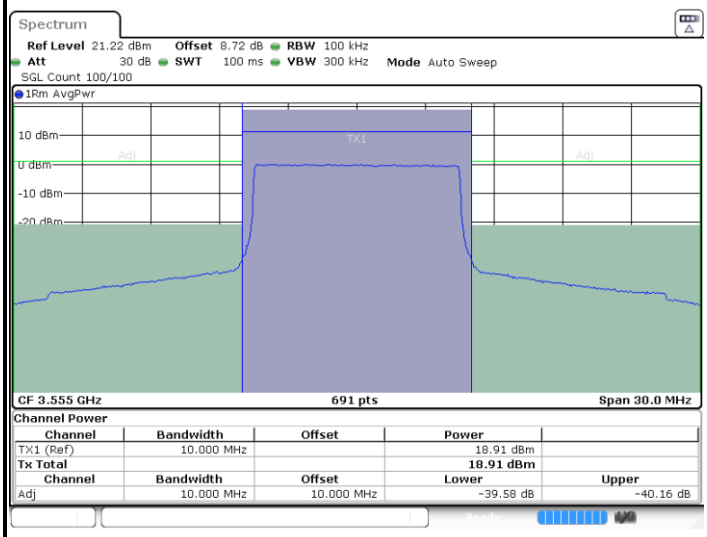
Date: 3.FEB.2021 13:34:08

Lowest Channel / 1RBmax



Date: 3.FEB.2021 13:34:55

Lowest Channel / Full RB



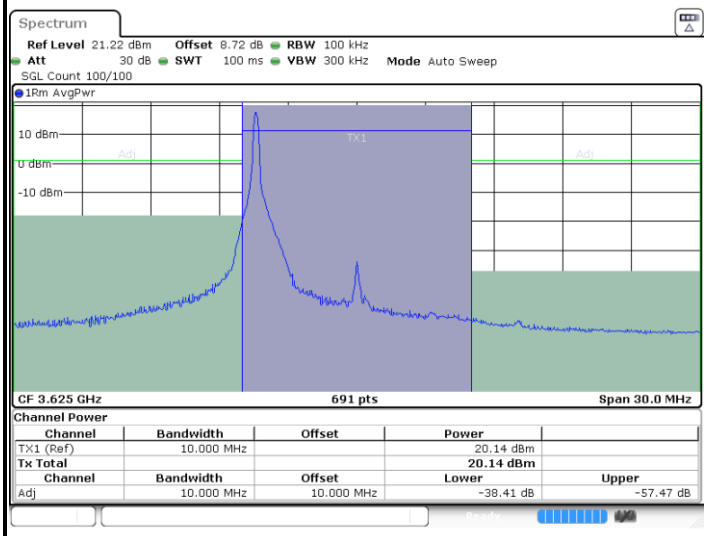
Date: 3.FEB.2021 13:37:53

N/A

LTE Band 48 / 10MHz

16QAM

Middle Channel / 1RB0



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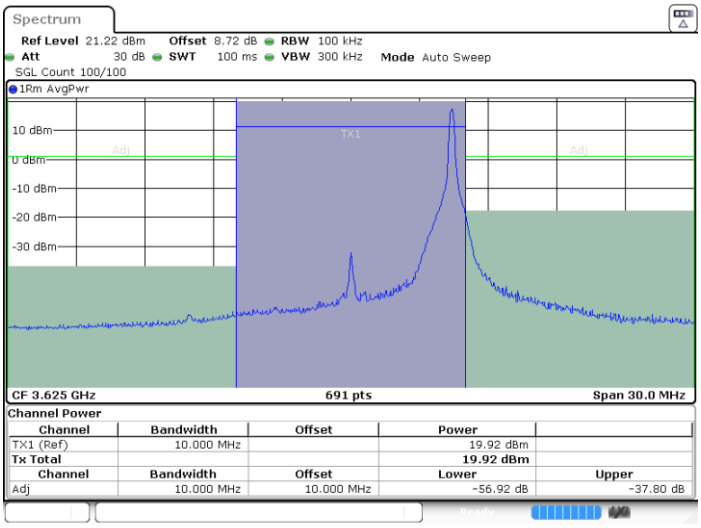
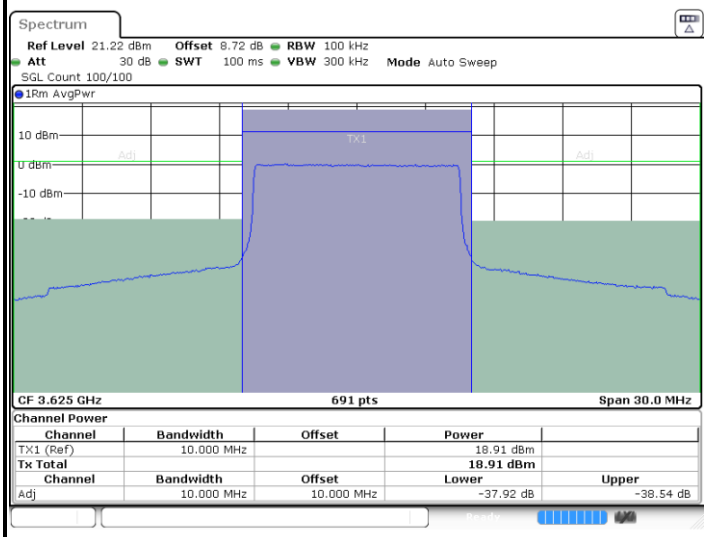
Middle Channel / 1RBmax



Date: 3.FEB.2021 13:51:32

Middle Channel / Full RB



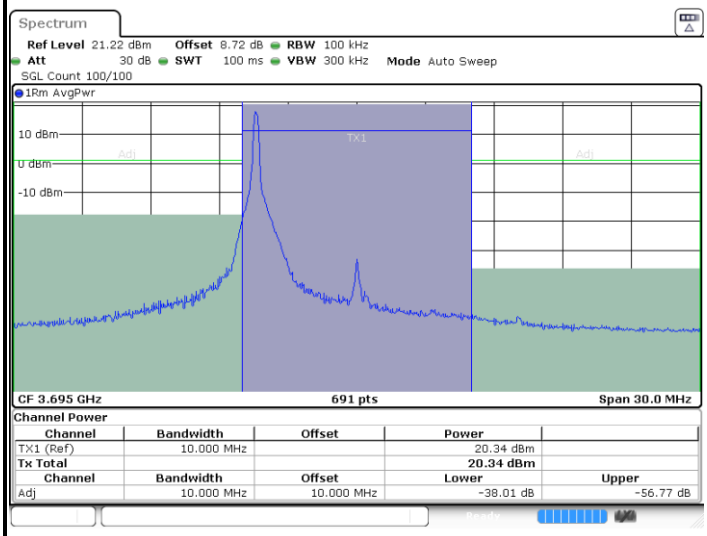
Date: 3.FEB.2021 13:50:48

N/A

LTE Band 48 / 10MHz

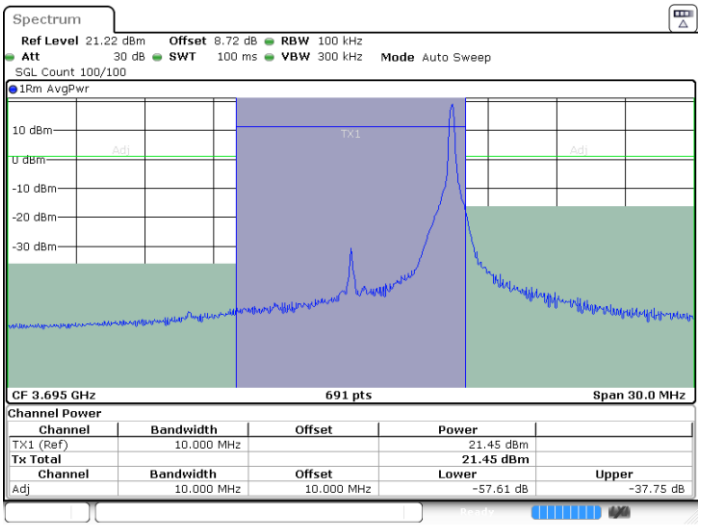
16QAM

Highest Channel / 1RB0



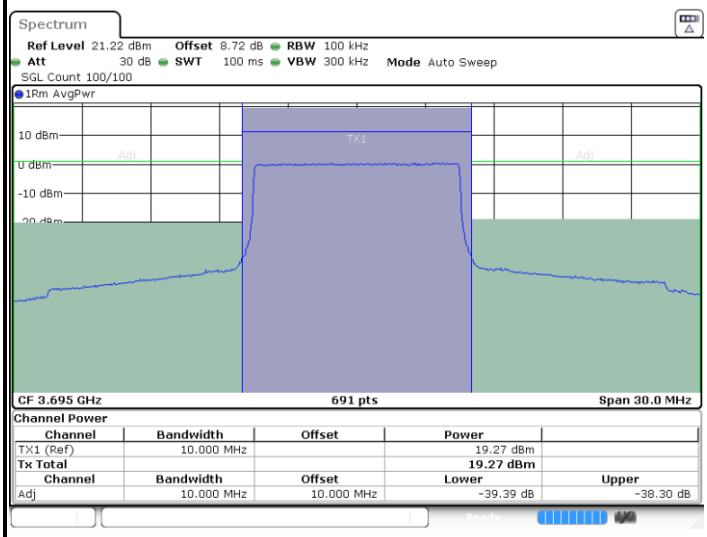
Date: 3.FEB.2021 13:54:10

Highest Channel / 1RBmax



Date: 3.FEB.2021 13:55:30

Highest Channel / Full RB



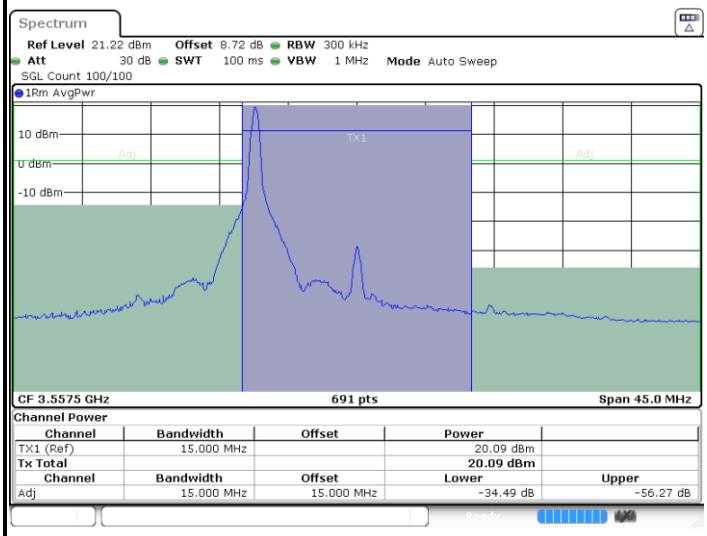
Date: 3.FEB.2021 13:58:50

N/A

LTE Band 48 / 15MHz

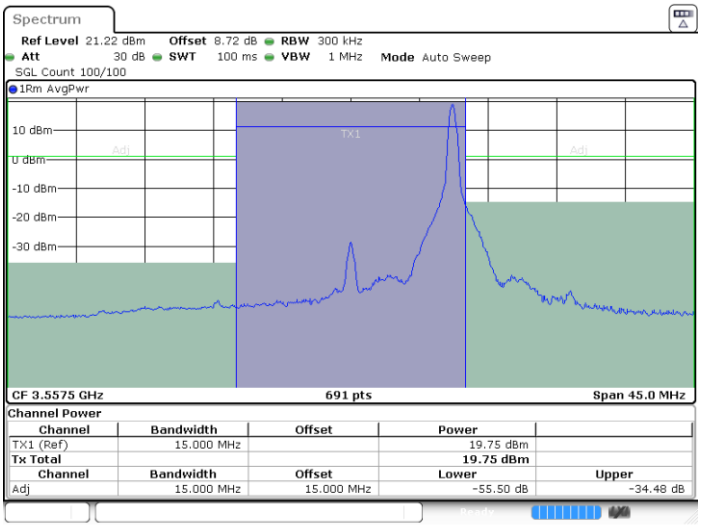
16QAM

Lowest Channel / 1RB0



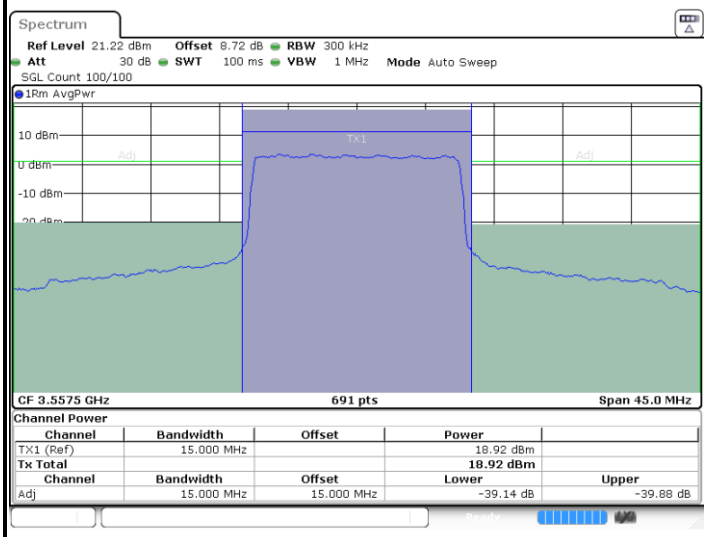
Date: 3.FEB.2021 14:04:03

Lowest Channel / 1RBmax



Date: 3.FEB.2021 14:04:51

Lowest Channel / Full RB



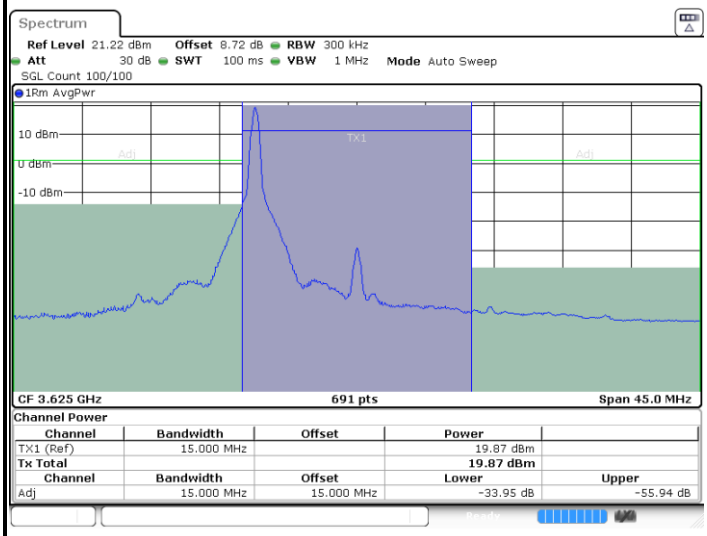
Date: 3.FEB.2021 14:07:16

N/A

LTE Band 48 / 15MHz

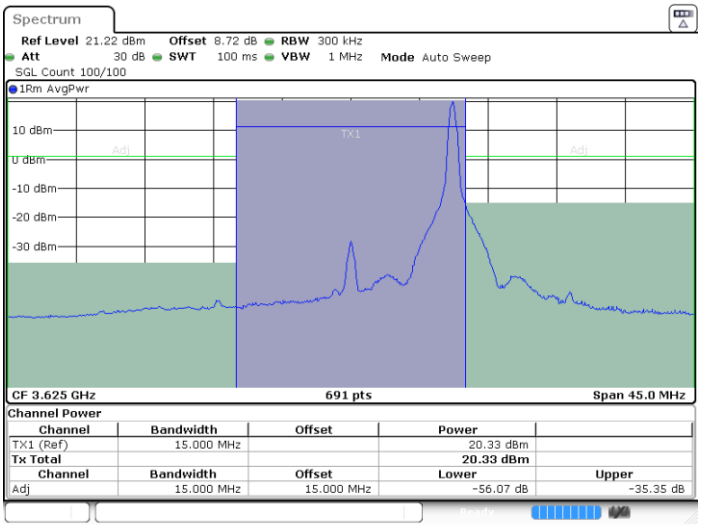
16QAM

Middle Channel / 1RB0



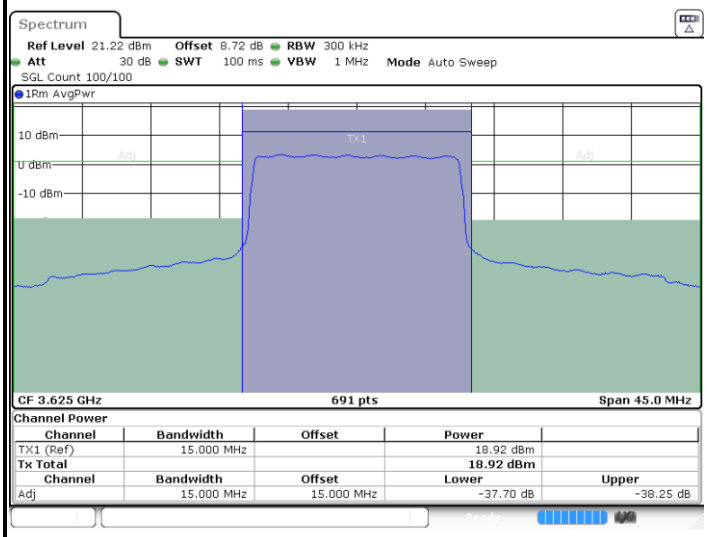
Date: 3.FEB.2021 14:09:56

Middle Channel / 1RBmax



Date: 3.FEB.2021 14:10:44

Middle Channel / Full RB



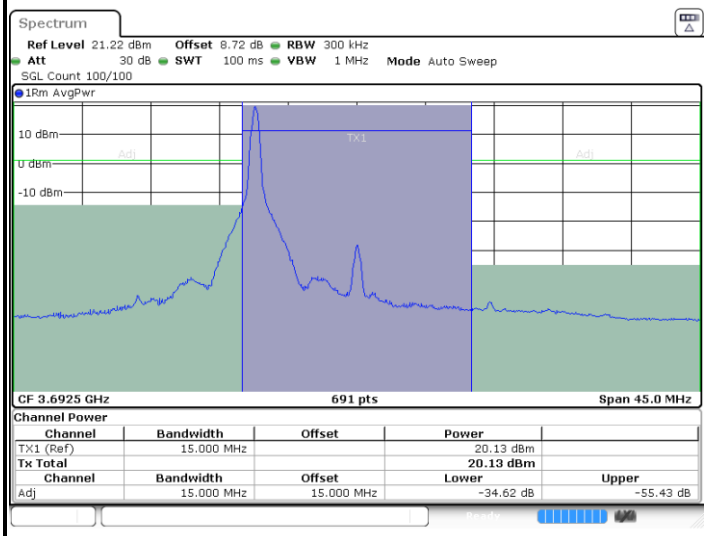
Date: 3.FEB.2021 14:08:09

N/A

LTE Band 48 / 15MHz

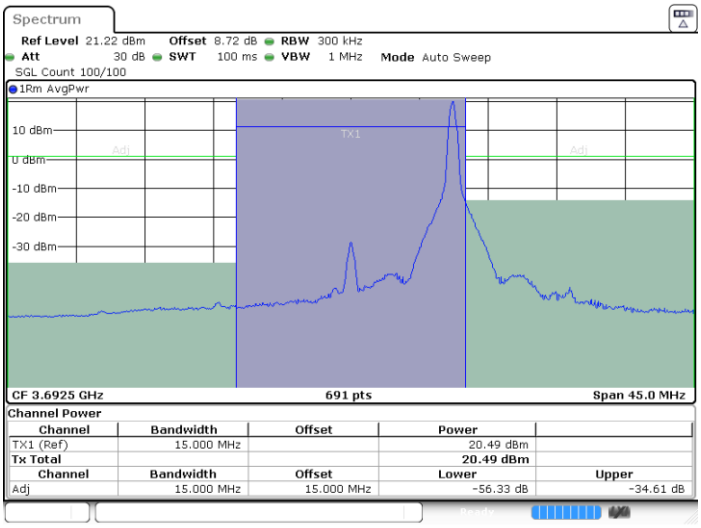
16QAM

Highest Channel / 1RB0



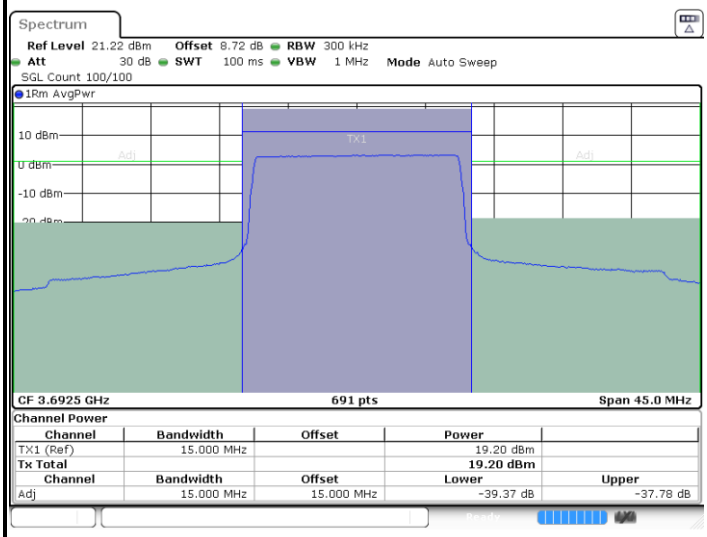
Date: 3.FEB.2021 14:13:40

Highest Channel / 1RBmax



Date: 3.FEB.2021 14:13:01

Highest Channel / Full RB



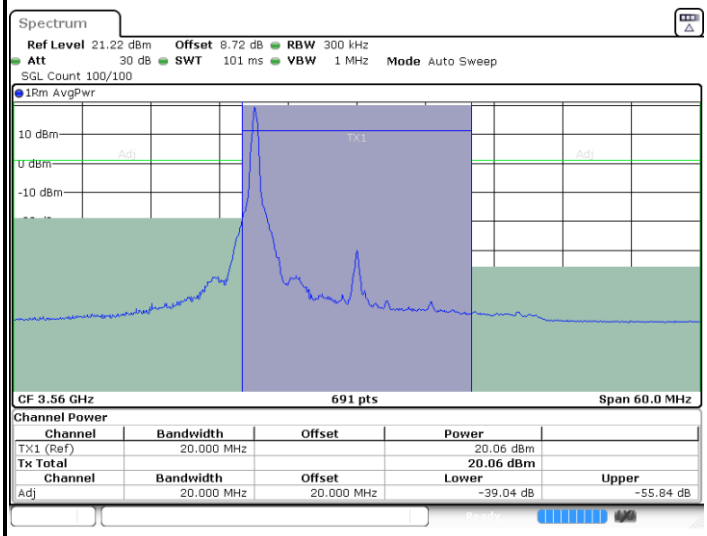
Date: 3.FEB.2021 14:15:45

N/A

LTE Band 48 / 20MHz

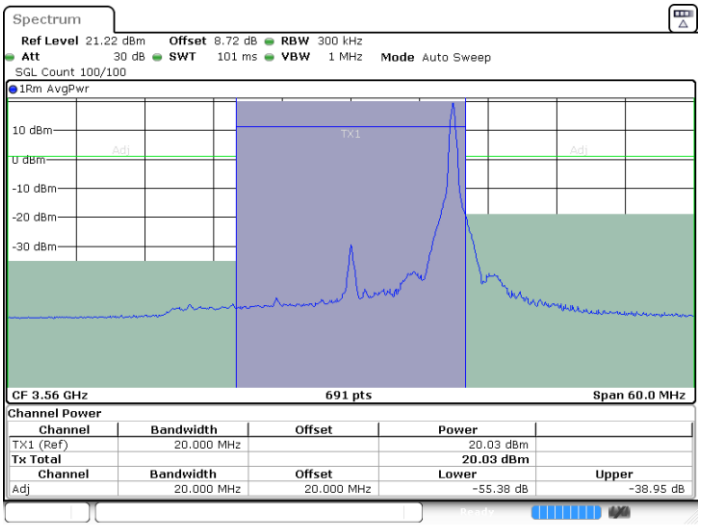
16QAM

Lowest Channel / 1RB0



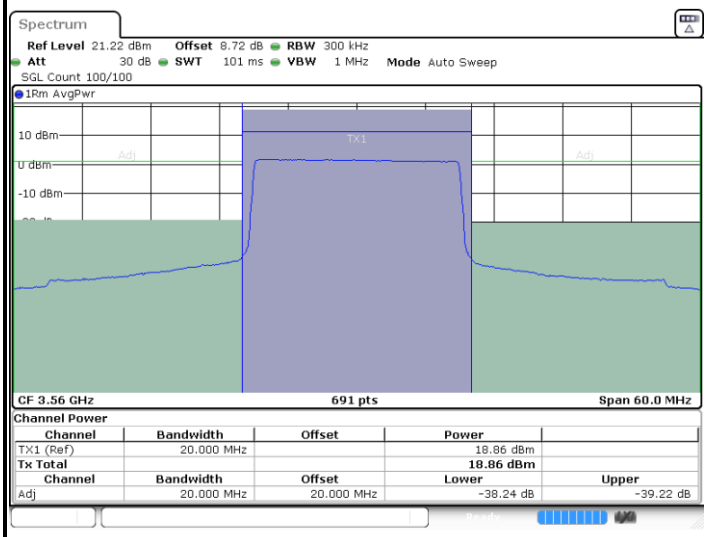
Date: 3.FEB.2021 14:21:40

Lowest Channel / 1RBmax



Date: 3.FEB.2021 14:22:34

Lowest Channel / Full RB



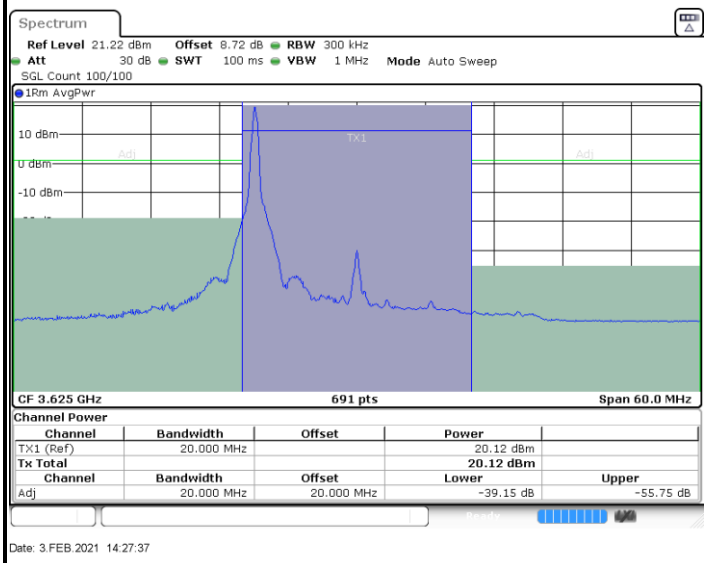
Date: 3.FEB.2021 14:18:49

N/A

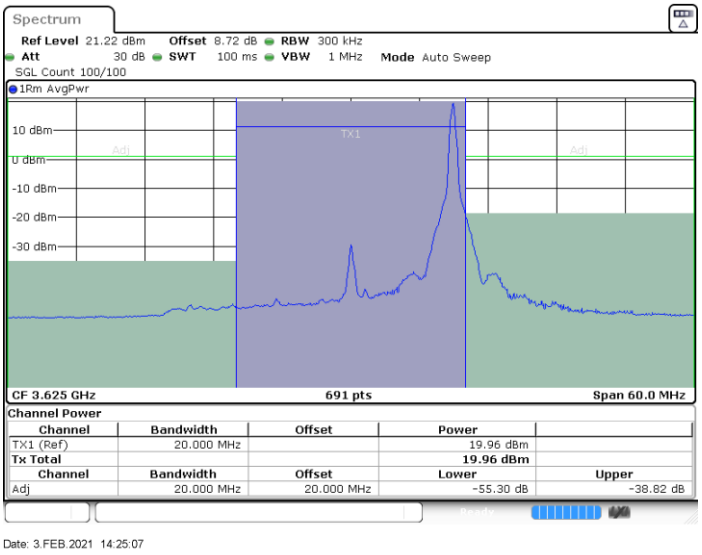
LTE Band 48 / 20MHz

16QAM

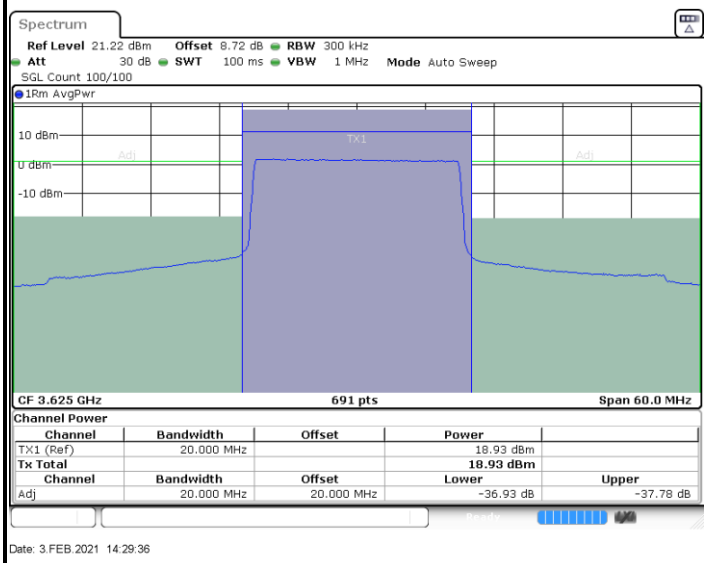
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB

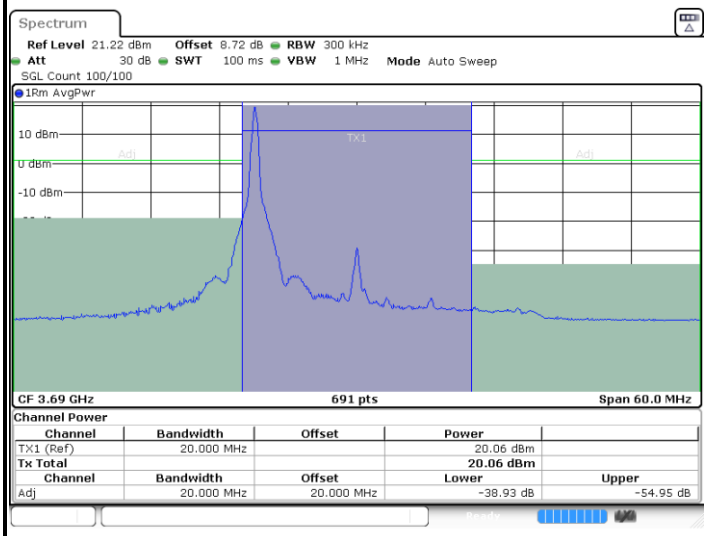


N/A

LTE Band 48 / 20MHz

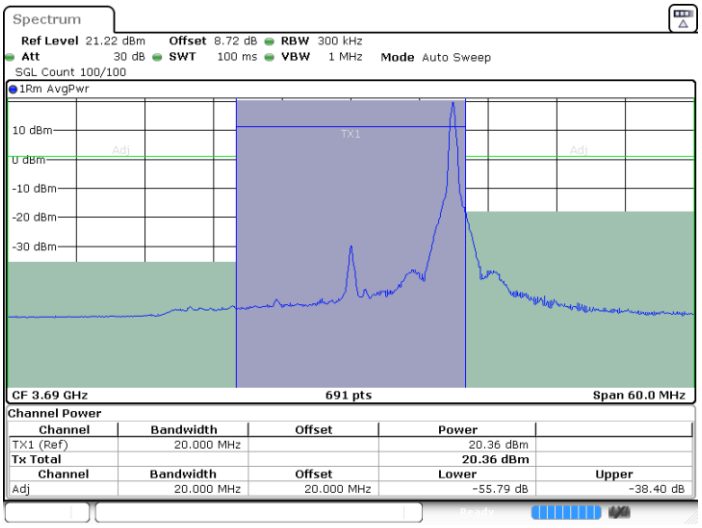
16QAM

Highest Channel / 1RB0



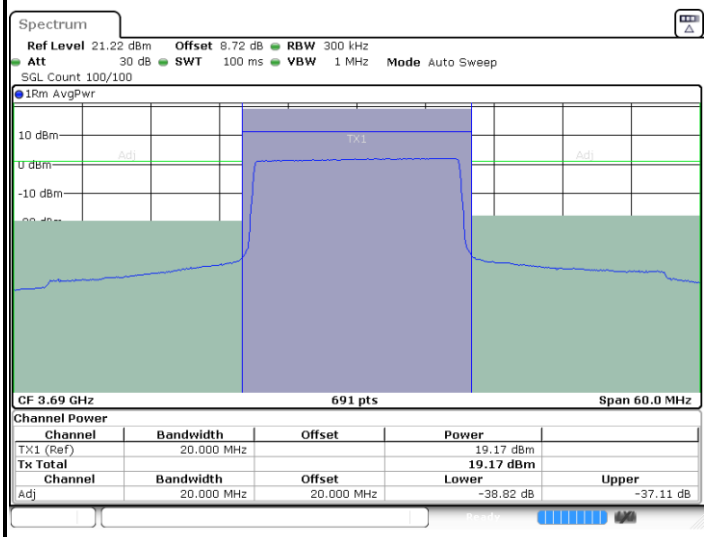
Date: 3.FEB.2021 14:31:59

Highest Channel / 1RBmax



Date: 3.FEB.2021 14:32:45

Highest Channel / Full RB



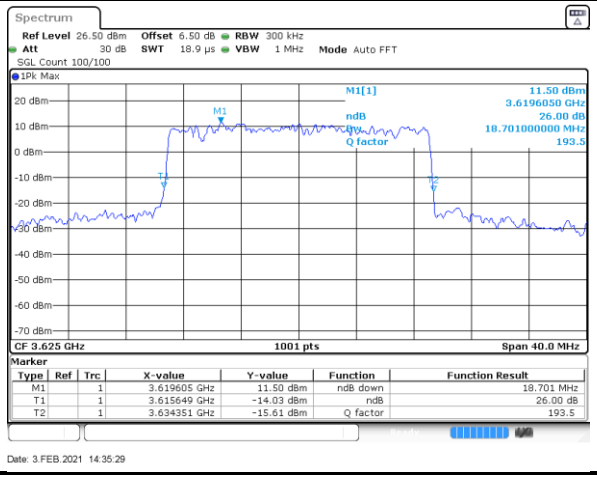
Date: 3.FEB.2021 14:30:18

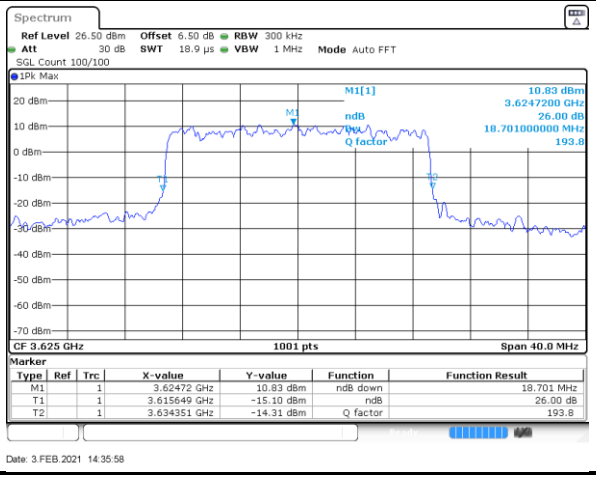
N/A

26dB Bandwidth

Mode	LTE Band 48 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.701	18.701

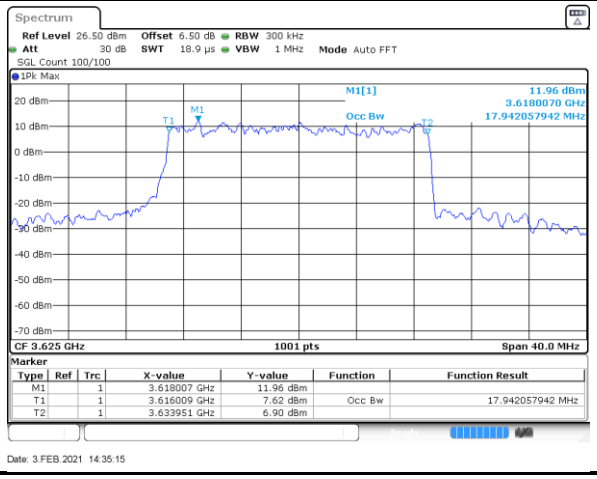
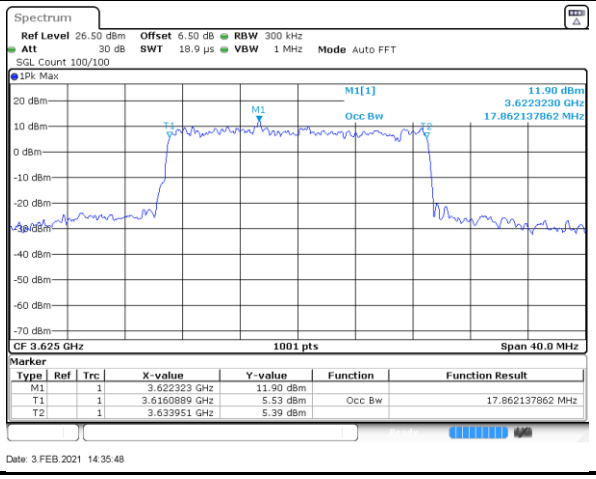
LTE Band 48	
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM





Occupied Bandwidth

Mode	LTE Band 48 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.96	17.86

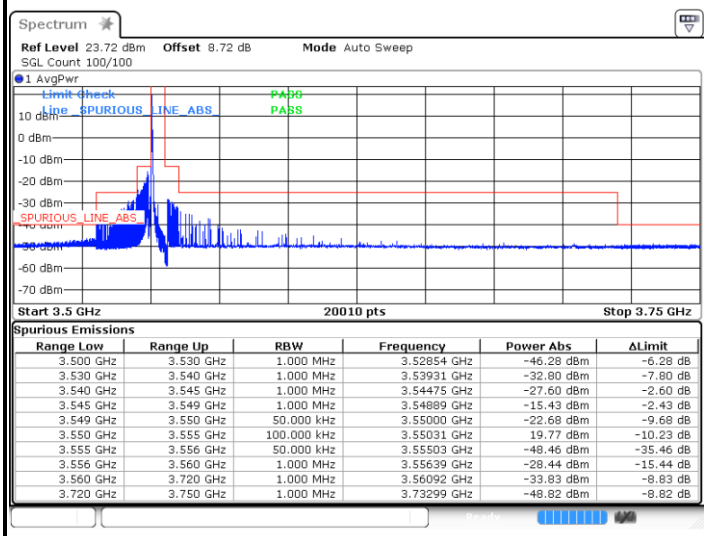
LTE Band 48	
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM
	

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	3.52854 GHz	-46.28 dBm	-6.28 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53931 GHz	-32.80 dBm	-7.80 dB
3.540 GHz	3.545 GHz	1.000 MHz	3.54475 GHz	-27.60 dBm	-2.60 dB
3.545 GHz	3.549 GHz	1.000 MHz	3.54889 GHz	-15.43 dBm	-2.43 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.55000 GHz	-22.68 dBm	-9.68 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55031 GHz	19.77 dBm	-10.23 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55503 GHz	-48.46 dBm	-35.46 dB
3.556 GHz	3.560 GHz	1.000 MHz	3.55639 GHz	-28.44 dBm	-15.44 dB
3.560 GHz	3.720 GHz	1.000 MHz	3.56092 GHz	-33.83 dBm	-8.83 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73299 GHz	-48.82 dBm	-8.82 dB

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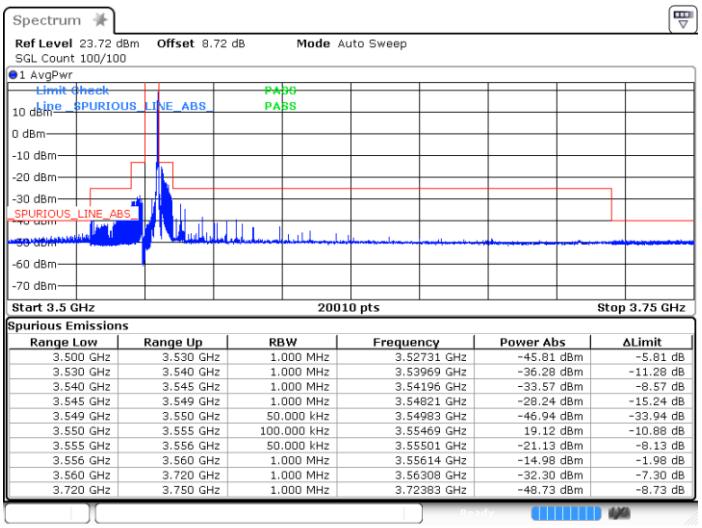
Lowest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52731 GHz	-45.81 dBm	-5.81 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53969 GHz	-36.28 dBm	-11.28 dB
3.540 GHz	3.545 GHz	1.000 MHz	3.54196 GHz	-33.57 dBm	-8.57 dB
3.545 GHz	3.549 GHz	1.000 MHz	3.54821 GHz	-28.24 dBm	-15.24 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.54983 GHz	-46.94 dBm	-33.94 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55469 GHz	19.12 dBm	-10.88 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55501 GHz	-21.13 dBm	-8.13 dB
3.556 GHz	3.560 GHz	1.000 MHz	3.55614 GHz	-14.98 dBm	-1.98 dB
3.560 GHz	3.720 GHz	1.000 MHz	3.56308 GHz	-32.30 dBm	-7.30 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72383 GHz	-48.73 dBm	-8.73 dB

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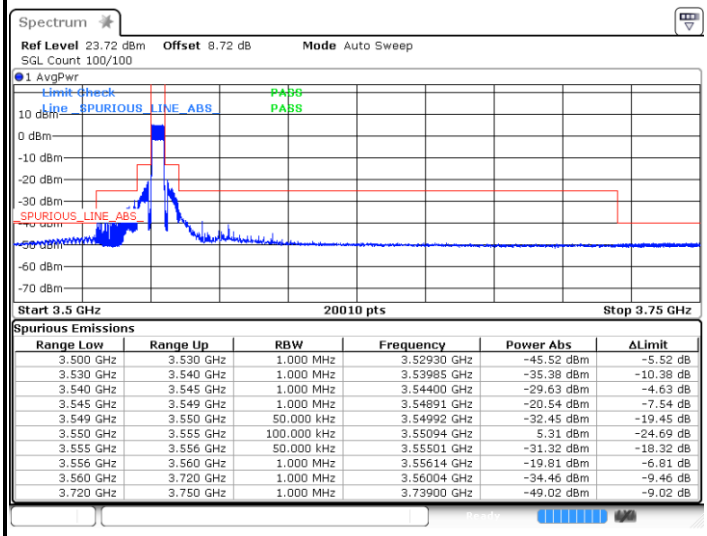
Lowest Channel / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52930 GHz	-45.52 dBm	-5.52 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53985 GHz	-35.38 dBm	-10.38 dB
3.540 GHz	3.545 GHz	1.000 MHz	3.54400 GHz	-29.63 dBm	-4.63 dB
3.545 GHz	3.549 GHz	1.000 MHz	3.54891 GHz	-20.54 dBm	-7.54 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.54992 GHz	-32.45 dBm	-19.45 dB
3.550 GHz	3.555 GHz	100.000 kHz	3.55094 GHz	5.31 dBm	-24.69 dB
3.555 GHz	3.556 GHz	50.000 kHz	3.55501 GHz	-31.32 dBm	-18.32 dB
3.556 GHz	3.560 GHz	1.000 MHz	3.55614 GHz	-19.81 dBm	-6.81 dB
3.560 GHz	3.720 GHz	1.000 MHz	3.56004 GHz	-34.46 dBm	-9.46 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73900 GHz	-49.02 dBm	-9.02 dB

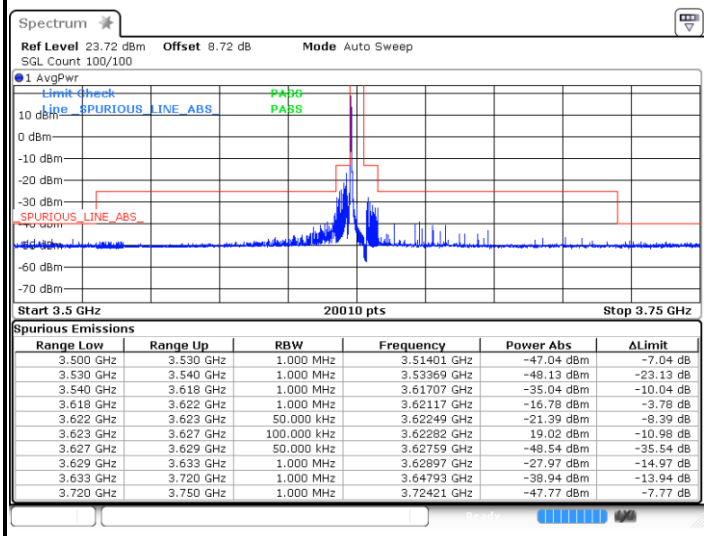
Date: 3.FEB.2021 16:46:18

N/A

LTE Band 48 / 5MHz

QPSK

Middle Channel / 1RB0

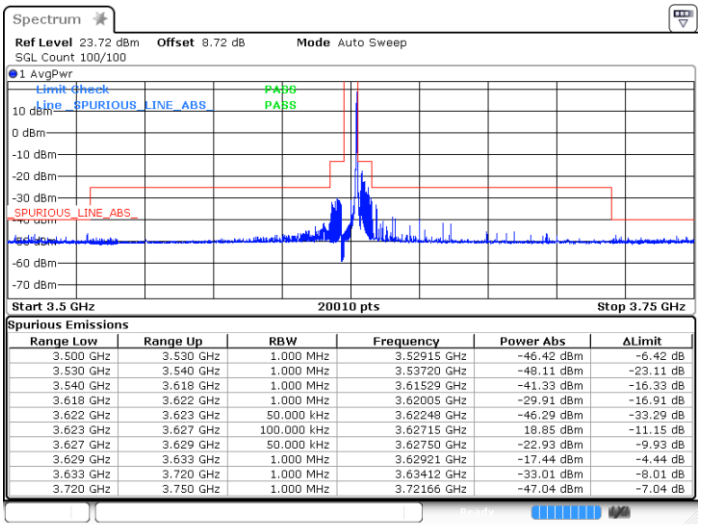


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51401 GHz	-47.04 dBm	-7.04 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53369 GHz	-48.13 dBm	-23.13 dB
3.540 GHz	3.618 GHz	1.000 MHz	3.61707 GHz	-35.04 dBm	-10.04 dB
3.618 GHz	3.622 GHz	1.000 MHz	3.62117 GHz	-16.78 dBm	-3.78 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62249 GHz	-21.39 dBm	-8.39 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62282 GHz	19.02 dBm	-10.98 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62759 GHz	-48.54 dBm	-35.54 dB
3.629 GHz	3.633 GHz	1.000 MHz	3.62897 GHz	-27.97 dBm	-14.97 dB
3.633 GHz	3.720 GHz	1.000 MHz	3.64793 GHz	-38.94 dBm	-13.94 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72421 GHz	-47.77 dBm	-7.77 dB

Date: 3.FEB.2021 16:56:04

Middle Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52915 GHz	-46.42 dBm	-6.42 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53720 GHz	-48.11 dBm	-23.11 dB
3.540 GHz	3.618 GHz	1.000 MHz	3.61529 GHz	-41.33 dBm	-16.33 dB
3.618 GHz	3.622 GHz	1.000 MHz	3.62005 GHz	-29.91 dBm	-16.91 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62248 GHz	-46.29 dBm	-33.29 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62715 GHz	18.85 dBm	-11.15 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62750 GHz	-22.93 dBm	-9.93 dB
3.629 GHz	3.633 GHz	1.000 MHz	3.62921 GHz	-17.44 dBm	-4.44 dB
3.633 GHz	3.720 GHz	1.000 MHz	3.63412 GHz	-33.01 dBm	-8.01 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72166 GHz	-47.04 dBm	-7.04 dB

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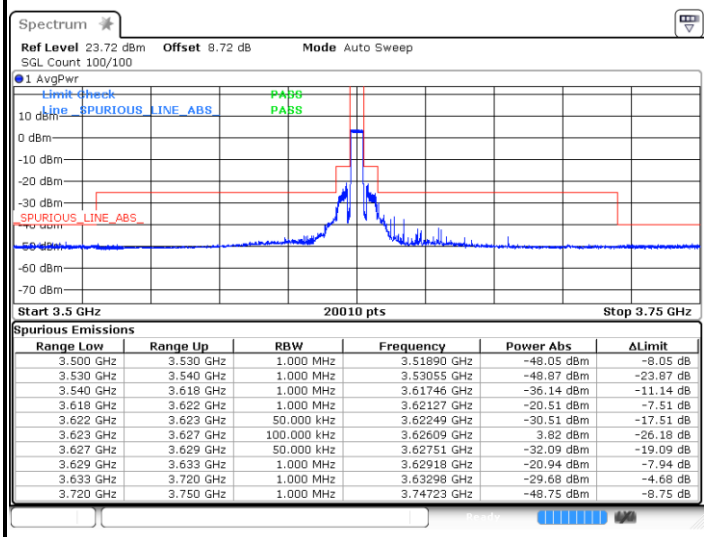
Middle Channel / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51890 GHz	-48.05 dBm	-8.05 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53055 GHz	-48.87 dBm	-23.87 dB
3.540 GHz	3.618 GHz	1.000 MHz	3.61746 GHz	-36.14 dBm	-11.14 dB
3.618 GHz	3.622 GHz	1.000 MHz	3.62127 GHz	-20.51 dBm	-7.51 dB
3.622 GHz	3.623 GHz	50.000 kHz	3.62249 GHz	-30.51 dBm	-17.51 dB
3.623 GHz	3.627 GHz	100.000 kHz	3.62609 GHz	3.82 dBm	-26.18 dB
3.627 GHz	3.629 GHz	50.000 kHz	3.62751 GHz	-32.09 dBm	-19.09 dB
3.629 GHz	3.633 GHz	1.000 MHz	3.62918 GHz	-20.94 dBm	-7.94 dB
3.633 GHz	3.720 GHz	1.000 MHz	3.63298 GHz	-29.68 dBm	-4.68 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74723 GHz	-48.75 dBm	-8.75 dB

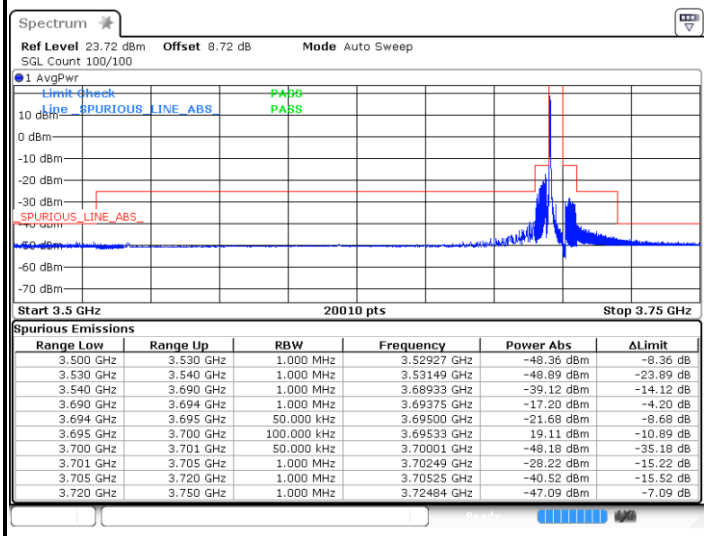
Date: 3.FEB.2021 16:50:34

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	3.52927 GHz	-48.36 dBm	-8.36 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53149 GHz	-48.89 dBm	-23.89 dB
3.540 GHz	3.690 GHz	1.000 MHz	3.68933 GHz	-39.12 dBm	-14.12 dB
3.690 GHz	3.694 GHz	1.000 MHz	3.69375 GHz	-17.20 dBm	-4.20 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69500 GHz	-21.68 dBm	-8.68 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69533 GHz	19.11 dBm	-10.89 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70001 GHz	-48.18 dBm	-35.18 dB
3.701 GHz	3.705 GHz	1.000 MHz	3.70249 GHz	-28.22 dBm	-15.22 dB
3.705 GHz	3.720 GHz	1.000 MHz	3.70525 GHz	-40.52 dBm	-15.52 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72484 GHz	-47.09 dBm	-7.09 dB

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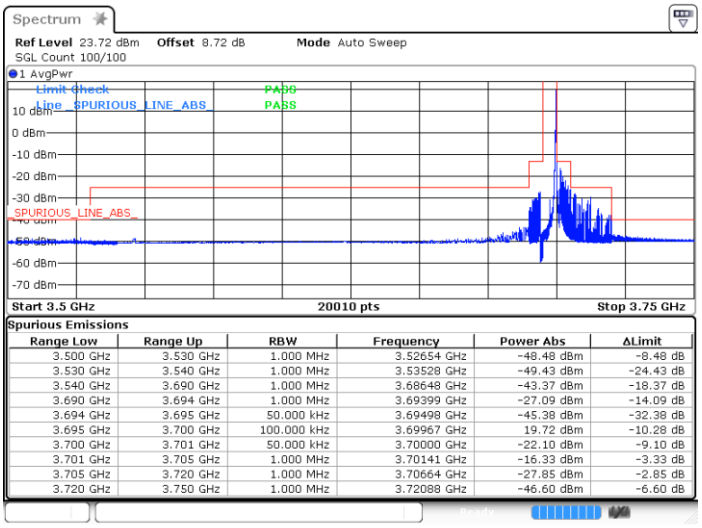
Highest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52654 GHz	-48.48 dBm	-8.48 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53528 GHz	-49.43 dBm	-24.43 dB
3.540 GHz	3.690 GHz	1.000 MHz	3.68648 GHz	-43.37 dBm	-18.37 dB
3.690 GHz	3.694 GHz	1.000 MHz	3.69399 GHz	-27.09 dBm	-14.09 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69498 GHz	-45.38 dBm	-32.38 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69967 GHz	19.72 dBm	-10.28 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70000 GHz	-22.10 dBm	-9.10 dB
3.701 GHz	3.705 GHz	1.000 MHz	3.70141 GHz	-16.33 dBm	-3.33 dB
3.705 GHz	3.720 GHz	1.000 MHz	3.70664 GHz	-27.85 dBm	-2.85 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72088 GHz	-46.60 dBm	-6.60 dB

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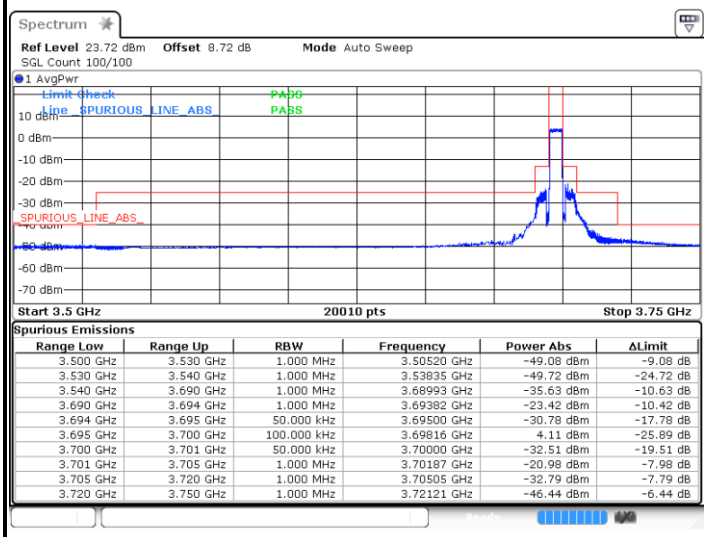
Highest Channel / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50520 GHz	-49.08 dBm	-9.08 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53835 GHz	-49.72 dBm	-24.72 dB
3.540 GHz	3.690 GHz	1.000 MHz	3.68993 GHz	-35.63 dBm	-10.63 dB
3.690 GHz	3.694 GHz	1.000 MHz	3.69382 GHz	-23.42 dBm	-10.42 dB
3.694 GHz	3.695 GHz	50.000 kHz	3.69500 GHz	-30.78 dBm	-17.78 dB
3.695 GHz	3.700 GHz	100.000 kHz	3.69816 GHz	4.11 dBm	-25.89 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70000 GHz	-32.51 dBm	-19.51 dB
3.701 GHz	3.705 GHz	1.000 MHz	3.70187 GHz	-20.98 dBm	-7.98 dB
3.705 GHz	3.720 GHz	1.000 MHz	3.70505 GHz	-32.79 dBm	-7.79 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72121 GHz	-46.44 dBm	-6.44 dB

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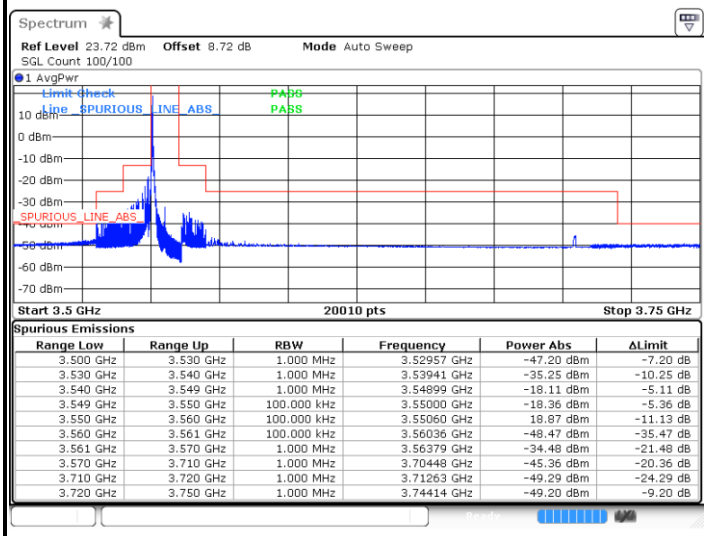
N/A

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	3.52957 GHz	-47.20 dBm	-7.20 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53941 GHz	-35.25 dBm	-10.25 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54899 GHz	-18.11 dBm	-5.11 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.55000 GHz	-18.36 dBm	-5.36 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55060 GHz	18.87 dBm	-11.13 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56036 GHz	-48.47 dBm	-35.47 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56379 GHz	-34.48 dBm	-21.48 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.70448 GHz	-45.36 dBm	-20.36 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71263 GHz	-49.29 dBm	-24.29 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74414 GHz	-49.20 dBm	-9.20 dB

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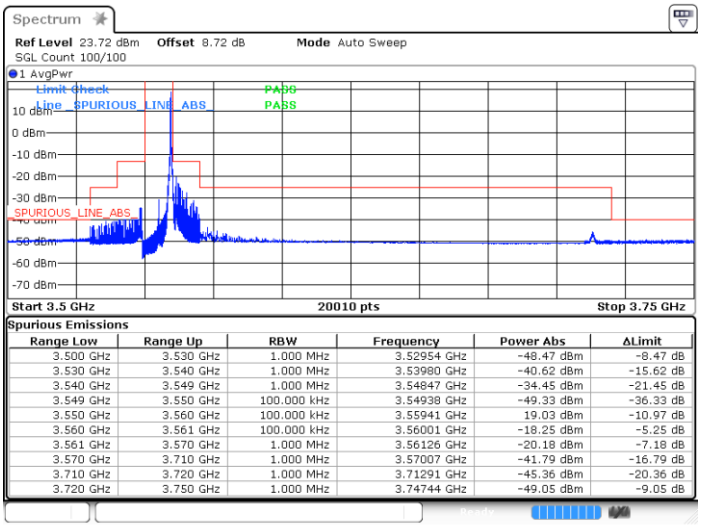
Lowest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52954 GHz	-48.47 dBm	-8.47 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53980 GHz	-40.62 dBm	-15.62 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54847 GHz	-34.45 dBm	-21.45 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54938 GHz	-49.33 dBm	-36.33 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55941 GHz	19.03 dBm	-10.97 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56001 GHz	-18.25 dBm	-5.25 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56126 GHz	-20.18 dBm	-7.18 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.57007 GHz	-41.79 dBm	-16.79 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71291 GHz	-45.36 dBm	-20.36 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74744 GHz	-49.05 dBm	-9.05 dB

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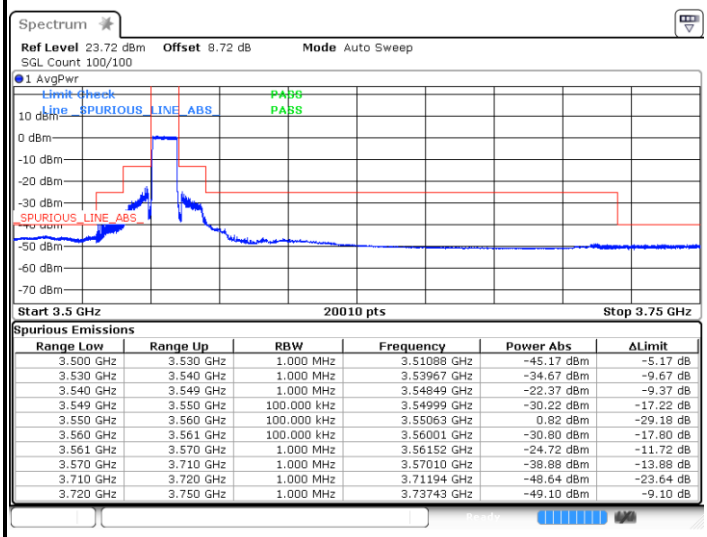
Lowest Channel / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51088 GHz	-45.17 dBm	-5.17 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53967 GHz	-34.67 dBm	-9.67 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54849 GHz	-22.37 dBm	-9.37 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54999 GHz	-30.22 dBm	-17.22 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55063 GHz	0.82 dBm	-29.18 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56001 GHz	-30.80 dBm	-17.80 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56152 GHz	-24.72 dBm	-11.72 dB
3.570 GHz	3.710 GHz	1.000 MHz	3.57010 GHz	-38.88 dBm	-13.88 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71194 GHz	-48.64 dBm	-23.64 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73743 GHz	-49.10 dBm	-9.10 dB

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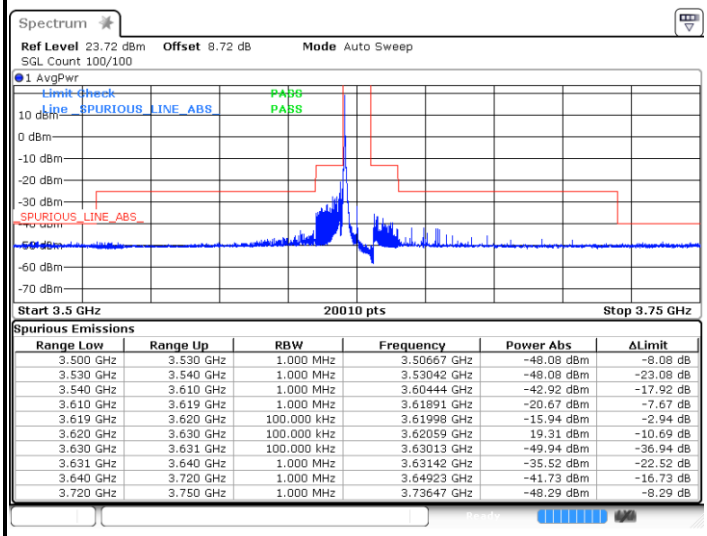
N/A

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	3.50667 GHz	-48.08 dBm	-8.08 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53042 GHz	-48.08 dBm	-23.08 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.60444 GHz	-42.92 dBm	-17.92 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61891 GHz	-20.67 dBm	-7.67 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61998 GHz	-15.94 dBm	-2.94 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62059 GHz	19.31 dBm	-10.69 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63013 GHz	-49.94 dBm	-36.94 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63142 GHz	-35.52 dBm	-22.52 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64923 GHz	-41.73 dBm	-16.73 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73647 GHz	-48.29 dBm	-8.29 dB

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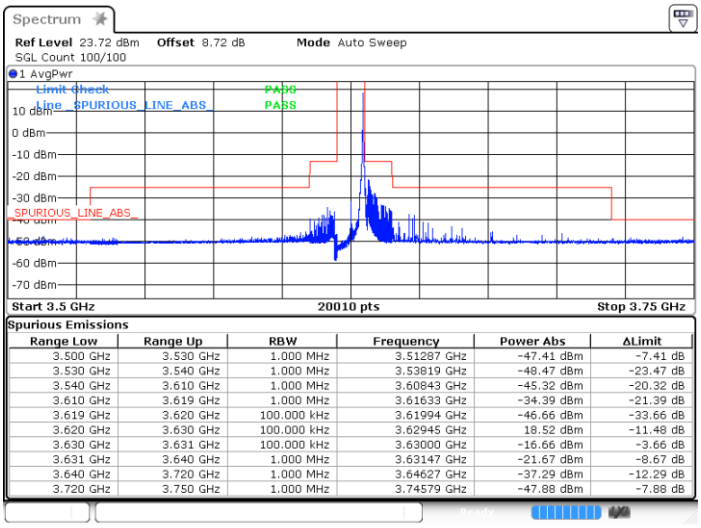
Middle Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51287 GHz	-47.41 dBm	-7.41 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53819 GHz	-48.47 dBm	-23.47 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.60843 GHz	-45.32 dBm	-20.32 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61633 GHz	-34.39 dBm	-21.39 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61994 GHz	-46.66 dBm	-33.66 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62945 GHz	18.52 dBm	-11.48 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63000 GHz	-16.66 dBm	-3.66 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63147 GHz	-21.67 dBm	-8.67 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64627 GHz	-37.29 dBm	-12.29 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74579 GHz	-47.88 dBm	-7.88 dB

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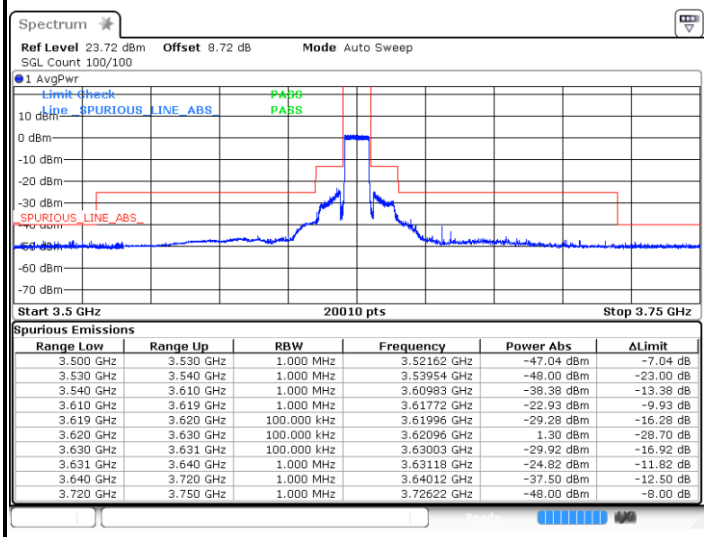
Middle Channel / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52162 GHz	-47.04 dBm	-7.04 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53954 GHz	-48.00 dBm	-23.00 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.60983 GHz	-38.38 dBm	-13.38 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61772 GHz	-22.93 dBm	-9.93 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61996 GHz	-29.28 dBm	-16.28 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62096 GHz	1.30 dBm	-28.70 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63003 GHz	-29.92 dBm	-16.92 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63118 GHz	-24.82 dBm	-11.82 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64012 GHz	-37.50 dBm	-12.50 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72622 GHz	-48.00 dBm	-8.00 dB

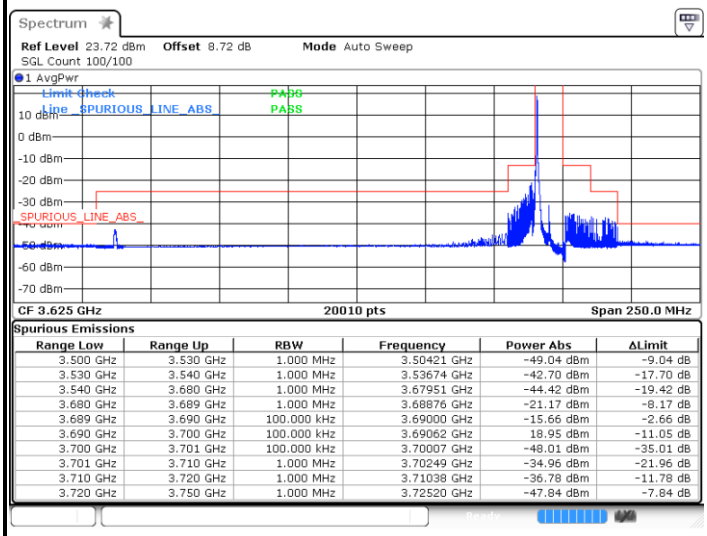
Date: 3.FEB.2021 17:29:36

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	3.50421 GHz	-49.04 dBm	-9.04 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53674 GHz	-42.70 dBm	-17.70 dB
3.540 GHz	3.680 GHz	1.000 MHz	3.67951 GHz	-44.42 dBm	-19.42 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68876 GHz	-21.17 dBm	-8.17 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.69000 GHz	-15.66 dBm	-2.66 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69062 GHz	18.95 dBm	-11.05 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70007 GHz	-48.01 dBm	-35.01 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70249 GHz	-34.96 dBm	-21.96 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71038 GHz	-36.78 dBm	-11.78 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72520 GHz	-47.84 dBm	-7.84 dB

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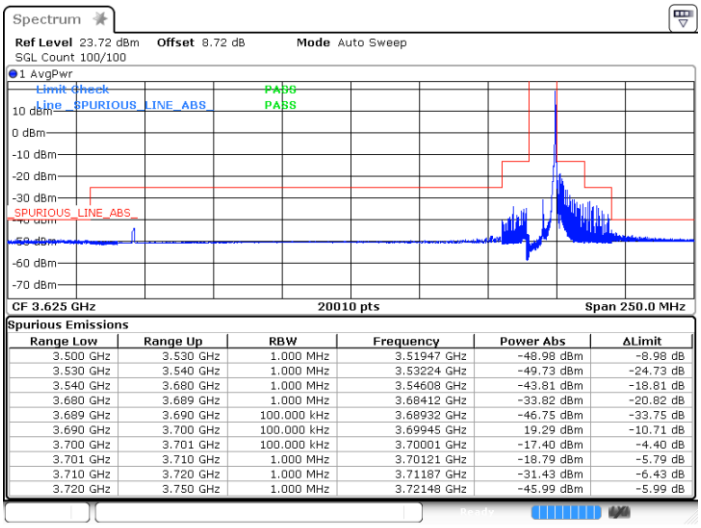
Highest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51947 GHz	-48.98 dBm	-8.98 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53224 GHz	-49.73 dBm	-24.73 dB
3.540 GHz	3.680 GHz	1.000 MHz	3.54608 GHz	-43.81 dBm	-18.81 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68412 GHz	-33.82 dBm	-20.82 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.68932 GHz	-46.75 dBm	-33.75 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69945 GHz	19.29 dBm	-10.71 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70001 GHz	-17.40 dBm	-4.40 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70121 GHz	-18.79 dBm	-5.79 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71187 GHz	-31.43 dBm	-6.43 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72148 GHz	-45.99 dBm	-5.99 dB

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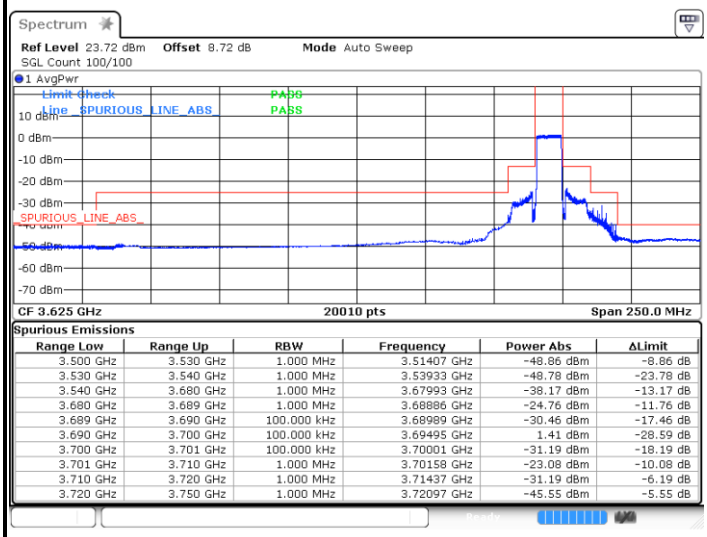
Highest Channel / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51407 GHz	-48.86 dBm	-8.86 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53933 GHz	-48.78 dBm	-23.78 dB
3.540 GHz	3.680 GHz	1.000 MHz	3.67993 GHz	-38.17 dBm	-13.17 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68886 GHz	-24.76 dBm	-11.76 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.68989 GHz	-30.46 dBm	-17.46 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69495 GHz	1.41 dBm	-28.59 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70001 GHz	-31.19 dBm	-18.19 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70158 GHz	-23.08 dBm	-10.08 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71437 GHz	-31.19 dBm	-6.19 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72097 GHz	-45.55 dBm	-5.55 dB

Date: 3.FEB.2021 17:33:47

N/A