



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2415-1, XT2415-3, XT2415-5, XT2415V
FCC ID : IHDT56AN5
STANDARD : 47 CFR Part 2, 96
CLASSIFICATION : Citizens Band End User Devices (CBE)
EQUIPMENT TYPE : End User Equipment
TEST DATE(S) : Sep. 20, 2023 ~ Sep. 29, 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



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
FG391202H	01	Initial issue of report	Oct. 25, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.3	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Applicable	Not applicable for End User Devices
3.4	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Not Applicable	Not applicable for End User Devices
3.5	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio	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 9.87 dB at 14464.00 MHz

Conformity Assessment Condition:
<ol style="list-style-type: none"> The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2415-1, XT2415-3, XT2415-5, XT2415V
FCC ID	IHDT56AN5
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.5> LTE Band 48: 22.51 dBm LTE Band 48B: 22.36 dBm LTE Band 48C: 22.31 dBm
Antenna Gain	<Ant. 5>: -0.9 dBi
Type of Modulation	QPSK / 16QAM / 64QAM
IMEI Code	Conducted: 357534480029799/357534480029807 Radiation: 357534480040630/357534480040648
HW Version	DVT2
SW Version	UUD34.38
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The four model names are only for market segment purpose, there is no other difference.

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	0.1445	4M47G7D	0.1146	4M50W7D
10	3555~3695	0.1442	9M05G7D	0.1151	9M01W7D
15	3557.5~3692.5	0.1442	13M4G7D	0.1161	13M4W7D
20	3560~3690	0.1449	17M9G7D	0.1161	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)		0.1400	18M7G7D	0.1125	18M8W7D

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)		0.1343	23M0G7D	0.1054	23M3W7D
10MHz+20MHz (3555.5 ~ 3690 MHz)		0.1377	28M1G7D	0.1067	28M0W7D
15MHz+20MHz (3557.8 ~ 3690 MHz)		0.1346	32M9G7D	0.1072	32M7W7D
20MHz+5MHz (3560 ~ 3696.7 MHz)		0.1368	23M2G7D	0.1059	23M2W7D
20MHz+10MHz (3560 ~ 3694.5 MHz)		0.1343	28M1G7D	0.1081	28M1W7D
20MHz+15MHz (3560 ~ 3692.2 MHz)		0.1377	32M7G7D	0.1086	33M1W7D
20MHz+20MHz (3560 ~ 3690 MHz)		0.1384	37M6G7D	0.1086	37M6W7D

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



1.5 Testing Site

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

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People’s Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People’s Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

Test data subcontracted: Radiated Spurious Emission test case in section 4.4 of this report.

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH01-SZ	AUDIX	E3	6.2009-8-24



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.

1.8 Specification of Accessory

Accessories Information				
AC Adapter 1	Brand Name	Motorola(Salcomp)	Model Name	MC-101
AC Adapter 2	Brand Name	Motorola(Chenyang)	Model Name	MC-101
AC Adapter 3	Brand Name	Motorola(AOHAI)	Model Name	MC-101
Battery 1	Brand Name	Motorola (ATL)	Model Name	QA50
USB Cable 1	Brand Name	Motorola (WASHIN)	Model Name	S928D98335
USB Cable 2	Brand Name	Motorola (Saibao)	Model Name	S928D98333
USB Cable 3	Brand Name	Motorola (Saibao)	Model Name	S928D98334



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.

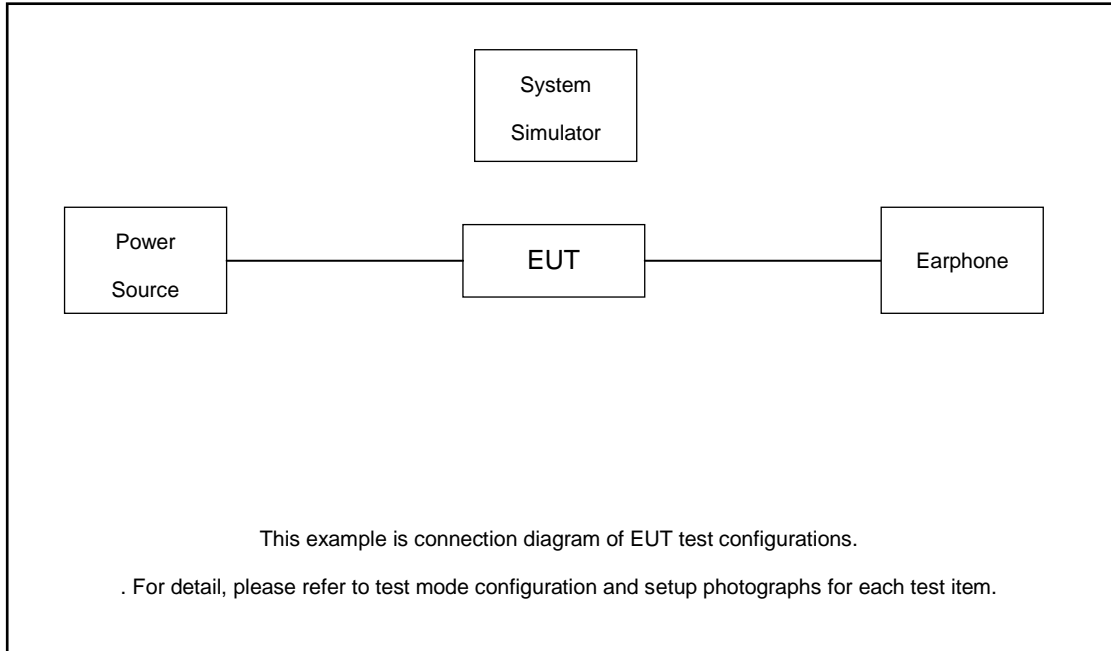
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	48	-	-	v	v	v	v	v	v	v	-	v		v	v	v	v
Adjacent Channel Leakage Ratio	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	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
Frequency Stability	48	-	-		v			v			-			v		v	
Radiated Spurious Emission	48	Worst Case													v	v	v
Remark	<ol style="list-style-type: none"> The mark "v " means that this configuration is chosen for testing The mark "- " means that this bandwidth is not supported. 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. All the radiated test cases were performed with Adapter 1 and USB Cable 1. 																



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	256 QAM	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
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
Adjacent Channel Leakage Ratio	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
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	v	v	
	48B	Worst Case														v	v	v	
Note	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. 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. All test items are based on engineering evaluation. 																		

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	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	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 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.

$$\text{Offset} = \text{RF cable loss.}$$

Following shows an offset computation example with cable loss 9.02 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 9.02 \text{ (dB)} \end{aligned}$$



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

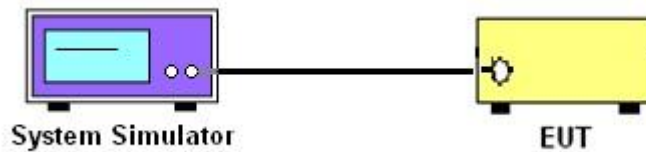
3 Conducted Test Items

3.1 Measuring Instruments

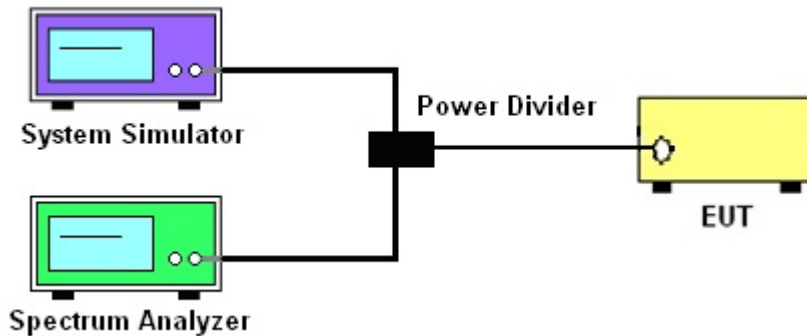
See list of measuring instruments of this test report.

3.2 Test Setup

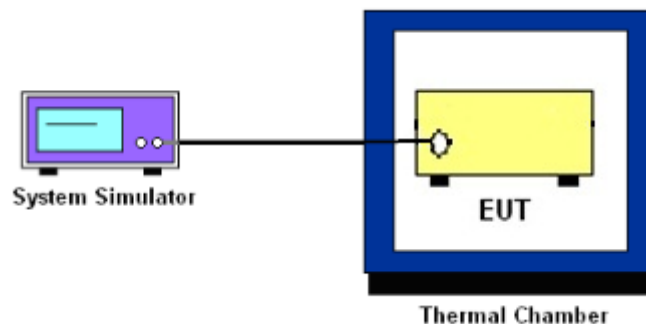
3.2.1 Conducted Output Power / ACLR



3.2.2 26dB & 99% Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.2.4 Test Result of Conducted Test

Please refer to Appendix A.



3.3 Conducted Output Power

3.3.1 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.

3.3.2 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.

3.4 EIRP

3.4.1 Description of the EIRP Measurement

EIRP limits for CBRS equipment as below table:

Device		Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
Applied	End User Device	23	n/a
<input type="checkbox"/>	Category A CBSD	30	20
<input type="checkbox"/>	Category B CBSD	47	37

Remark:

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).

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



3.5 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) (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 -40 dBm/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 $\geq 1\%$ 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.

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 $25\pm 5^{\circ}\text{C}$ 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.

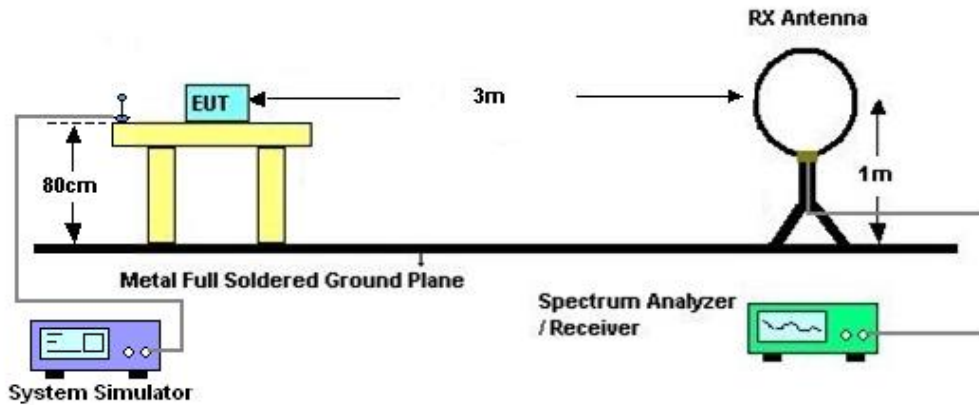
4 Radiated Test Items

4.1 Measuring Instruments

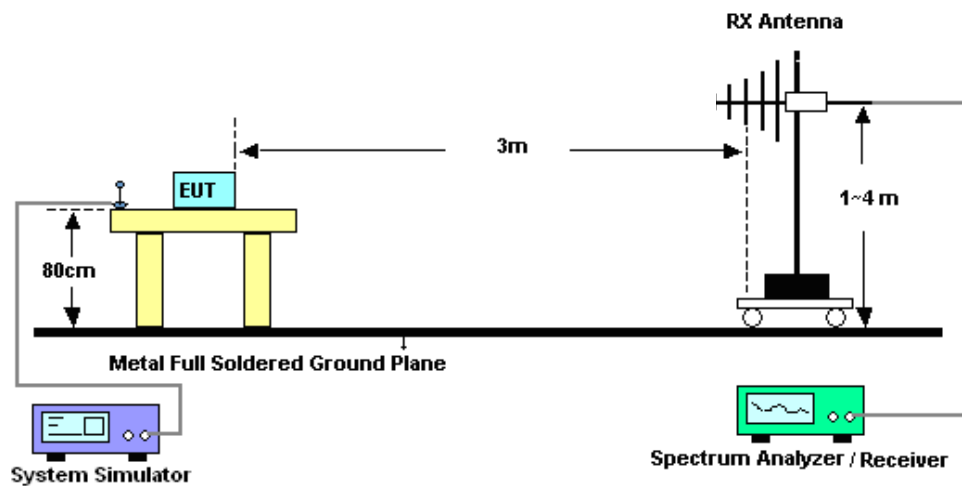
See list of measuring instruments of this test report.

4.2 Test Setup

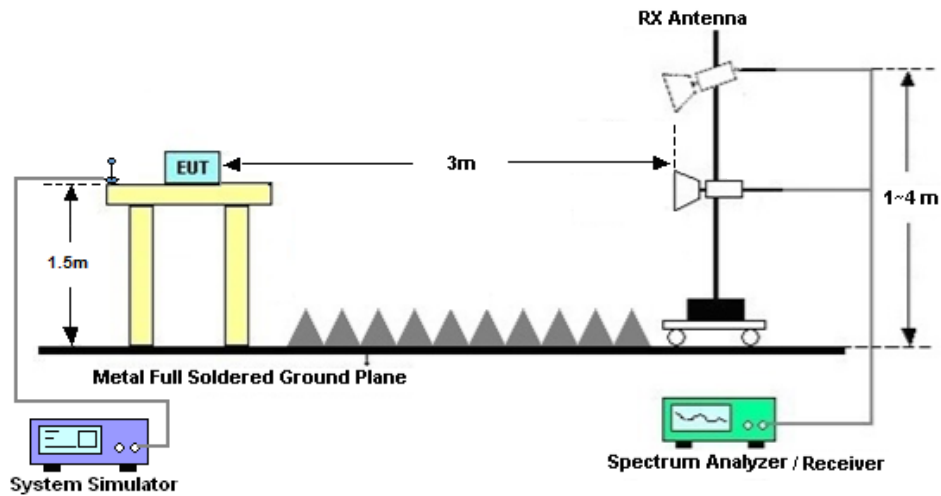
4.2.1 For radiated test below 30MHz



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. 12, 2022	Sep. 20, 2023~ Sep. 29, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Sep. 20, 2023~ Sep. 29, 2023	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Sep. 20, 2023~ Sep. 29, 2023	Jul. 05, 2024	Conducted (TH01-KS)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 26, 2022	Sep. 28, 2023	Dec. 25, 2023	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Sep. 28, 2023	Jul. 06, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Sep. 28, 2023	Jul. 27, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Sep. 27, 2023	Sep. 28, 2023	Sep. 26, 2024	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 08, 2023	Sep. 28, 2023	Jul. 07, 2024	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 08, 2023	Sep. 28, 2023	Apr. 07, 2024	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 04, 2023	Sep. 28, 2023	Apr. 03, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Sep. 28, 2023	Oct. 18, 2023	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 19, 2022	Sep. 28, 2023	Oct. 18, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Sep. 28, 2023	Jul. 06, 2024	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	Nov. 10, 2022	Sep. 28, 2023	Nov. 09, 2023	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 28, 2023	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 28, 2023	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required



6 Measurement Uncertainty

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±2.26 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))	2.48dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.53dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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



Appendix A. Test Results of Conducted Test

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

Conducted Output Power(Average power) and EIRP

LTE Band 48_Ant 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				55340	55990	56640
Frequency (MHz)				3560	3625	3690
20	QPSK	1	0	22.38	22.51	22.46
20	QPSK	1	49	22.25	22.49	22.37
20	QPSK	1	99	22.20	22.48	22.32
20	QPSK	50	0	21.45	21.52	21.37
20	QPSK	50	24	21.36	21.50	21.39
20	QPSK	50	50	21.27	21.48	21.25
20	QPSK	100	0	21.31	21.45	21.36
20	16QAM	1	0	21.29	21.43	21.41
20	16QAM	1	49	21.36	21.55	21.35
20	16QAM	1	99	21.28	21.47	21.22
20	16QAM	50	0	20.50	20.48	20.26
20	16QAM	50	24	20.46	20.48	20.34
20	16QAM	50	50	20.19	20.50	20.28
20	16QAM	100	0	20.39	20.45	20.31
20	64QAM	1	0	20.09	20.22	20.05
20	64QAM	1	49	20.07	20.25	20.15
20	64QAM	1	99	20.02	20.28	20.00
20	64QAM	50	0	19.58	19.46	19.24
20	64QAM	50	24	19.54	19.43	19.28
20	64QAM	50	50	19.23	19.58	19.31
20	64QAM	100	0	19.30	19.42	19.30
Channel				55315	55990	56665
Frequency (MHz)				3557.5	3625	3692.5
15	QPSK	1	0	22.24	22.49	22.26
15	QPSK	1	37	22.21	22.27	22.27
15	QPSK	1	74	22.08	22.38	22.30
15	QPSK	36	0	21.42	21.49	21.23
15	QPSK	36	20	21.36	21.49	21.33
15	QPSK	36	39	21.16	21.43	21.10
15	QPSK	75	0	21.30	21.42	21.21
15	16QAM	1	0	21.11	21.23	21.36
15	16QAM	1	37	21.15	21.55	21.21



15	16QAM	1	74	21.13	21.26	21.22
15	16QAM	36	0	20.37	20.32	20.13
15	16QAM	36	20	20.47	20.47	20.17
15	16QAM	36	39	20.20	20.32	20.08
15	16QAM	75	0	20.20	20.25	20.22
15	64QAM	1	0	20.13	20.23	20.09
15	64QAM	1	37	20.06	20.25	20.22
15	64QAM	1	74	20.16	20.35	20.09
15	64QAM	36	0	19.49	19.26	19.22
15	64QAM	36	20	19.56	19.43	19.08
15	64QAM	36	39	19.08	19.54	19.30
15	64QAM	75	0	19.13	19.31	19.14
Channel				55290	55990	56690
Frequency (MHz)				3555	3625	3695
10	QPSK	1	0	22.22	22.48	22.42
10	QPSK	1	25	22.09	22.38	22.28
10	QPSK	1	49	22.17	22.49	22.26
10	QPSK	25	0	21.47	21.53	21.32
10	QPSK	25	12	21.25	21.45	21.22
10	QPSK	25	25	21.27	21.38	21.05
10	QPSK	50	0	21.24	21.25	21.26
10	16QAM	1	0	21.30	21.21	21.35
10	16QAM	1	25	21.35	21.51	21.26
10	16QAM	1	49	21.30	21.36	21.22
10	16QAM	25	0	20.38	20.50	20.25
10	16QAM	25	12	20.34	20.40	20.22
10	16QAM	25	25	20.10	20.43	20.15
10	16QAM	50	0	20.38	20.27	20.13
10	64QAM	1	0	20.15	20.26	20.05
10	64QAM	1	25	20.11	20.22	20.11
10	64QAM	1	49	20.11	20.28	20.03
10	64QAM	25	0	19.46	19.35	19.22
10	64QAM	25	12	19.51	19.43	19.11
10	64QAM	25	25	19.10	19.41	19.33
10	64QAM	50	0	19.32	19.37	19.28
Channel				55265	55990	56715
Frequency (MHz)				3552.5	3625	3697.5
5	QPSK	1	0	22.20	22.50	22.45
5	QPSK	1	12	22.23	22.34	22.21
5	QPSK	1	24	22.13	22.34	22.31
5	QPSK	12	0	21.30	21.35	21.21
5	QPSK	12	7	21.28	21.43	21.24
5	QPSK	12	13	21.16	21.28	21.11
5	QPSK	25	0	21.12	21.42	21.21
5	16QAM	1	0	21.27	21.31	21.27



5	16QAM	1	12	21.32	21.49	21.18
5	16QAM	1	24	21.19	21.47	21.22
5	16QAM	12	0	20.47	20.34	20.19
5	16QAM	12	7	20.28	20.31	20.21
5	16QAM	12	13	20.19	20.34	20.17
5	16QAM	25	0	20.18	20.32	20.26
5	64QAM	1	0	20.05	20.09	20.16
5	64QAM	1	12	20.06	20.11	20.09
5	64QAM	1	24	20.04	20.29	20.01
5	64QAM	12	0	19.51	19.26	19.07
5	64QAM	12	7	19.54	19.38	19.28
5	64QAM	12	13	19.18	19.36	19.20
5	64QAM	25	0	19.27	19.41	19.15



EIRP

LTE Band 48 (GT - LC = -0.9 dB) QPSK			
Bandwidth	5M		
Channel	55265	55990	56715
	(Low)	(Mid)	(High)
Frequency (MHz)	3552.5	3625.0	3697.5
	Conducted Power (dBm)	22.20	22.50
Conducted Power (Watts)	0.1660	0.1778	0.1758
EIRP(dBm)	21.30	21.60	21.55
EIRP(Watts)	0.1349	0.1445	0.1429

LTE Band 48 (GT - LC = -0.9 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)	3555.0	3625.0	3695.0	3557.5	3625.0	3692.5	3560.0	3625.0	3690.0
	Conducted Power (dBm)	22.17	22.49	22.26	22.24	22.49	22.26	22.38	22.51
Conducted Power (Watts)	0.1648	0.1774	0.1683	0.1675	0.1774	0.1683	0.1730	0.1782	0.1762
EIRP(dBm)	21.27	21.59	21.36	21.34	21.59	21.36	21.48	21.61	21.56
EIRP(Watts)	0.1340	0.1442	0.1368	0.1361	0.1442	0.1368	0.1406	0.1449	0.1432



LTE Band 48 (GT - LC = -0.9 dB) 16QAM			
Bandwidth	5M		
Channel	55265	55990	56715
	(Low)	(Mid)	(High)
Frequency	3552.5	3625.0	3697.5
(MHz)			
Conducted Power (dBm)	21.32	21.49	21.18
Conducted Power (Watts)	0.1355	0.1409	0.1312
EIRP(dBm)	20.42	20.59	20.28
EIRP(Watts)	0.1102	0.1146	0.1067

LTE Band 48 (GT - LC = -0.9 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	3555.0	3625.0	3695.0	3557.5	3625.0	3692.5	3560.0	3625.0	3690.0
(MHz)									
Conducted Power (dBm)	21.35	21.51	21.26	21.15	21.55	21.21	21.36	21.55	21.35
Conducted Power (Watts)	0.1365	0.1416	0.1337	0.1303	0.1429	0.1321	0.1368	0.1429	0.1365
EIRP(dBm)	20.45	20.61	20.36	20.25	20.65	20.31	20.46	20.65	20.45
EIRP(Watts)	0.1109	0.1151	0.1086	0.1059	0.1161	0.1074	0.1112	0.1161	0.1109



LTE Band 48 (GT - LC = -0.9 dB) 64QAM			
Bandwidth	5M		
Channel	55265	55990	56715
	(Low)	(Mid)	(High)
Frequency	3552.5	3625.0	3697.5
(MHz)			
Conducted Power (dBm)	20.04	20.29	20.01
Conducted Power (Watts)	0.1009	0.1069	0.1002
EIRP(dBm)	19.14	19.39	19.11
EIRP(Watts)	0.0820	0.0869	0.0815

LTE Band 48 (GT - LC = -0.9 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	3555.0	3625.0	3695.0	3557.5	3625.0	3692.5	3560.0	3625.0	3690.0
(MHz)									
Conducted Power (dBm)	20.11	20.28	20.03	20.16	20.35	20.09	20.02	20.28	20.00
Conducted Power (Watts)	0.1026	0.1067	0.1007	0.1038	0.1084	0.1021	0.1005	0.1067	0.1000
EIRP(dBm)	19.21	19.38	19.13	19.26	19.45	19.19	19.12	19.38	19.10
EIRP(Watts)	0.0834	0.0867	0.0818	0.0843	0.0881	0.0830	0.0817	0.0867	0.0813



CA power and EIRP

LTE Band 48B							
Combination 10MHz+10MHz (50RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.36	0.1400
M	QPSK	1	Max	1	0	22.16	0.1337
H	QPSK	1	Max	1	0	22.22	0.1355
L	16QAM	1	Max	1	0	21.41	0.1125
M	16QAM	1	Max	1	0	21.24	0.1081
H	16QAM	1	Max	1	0	21.32	0.1102
L	64QAM	1	Max	1	0	20.10	0.0832
M	64QAM	1	Max	1	0	20.07	0.0826
H	64QAM	1	Max	1	0	20.03	0.0818



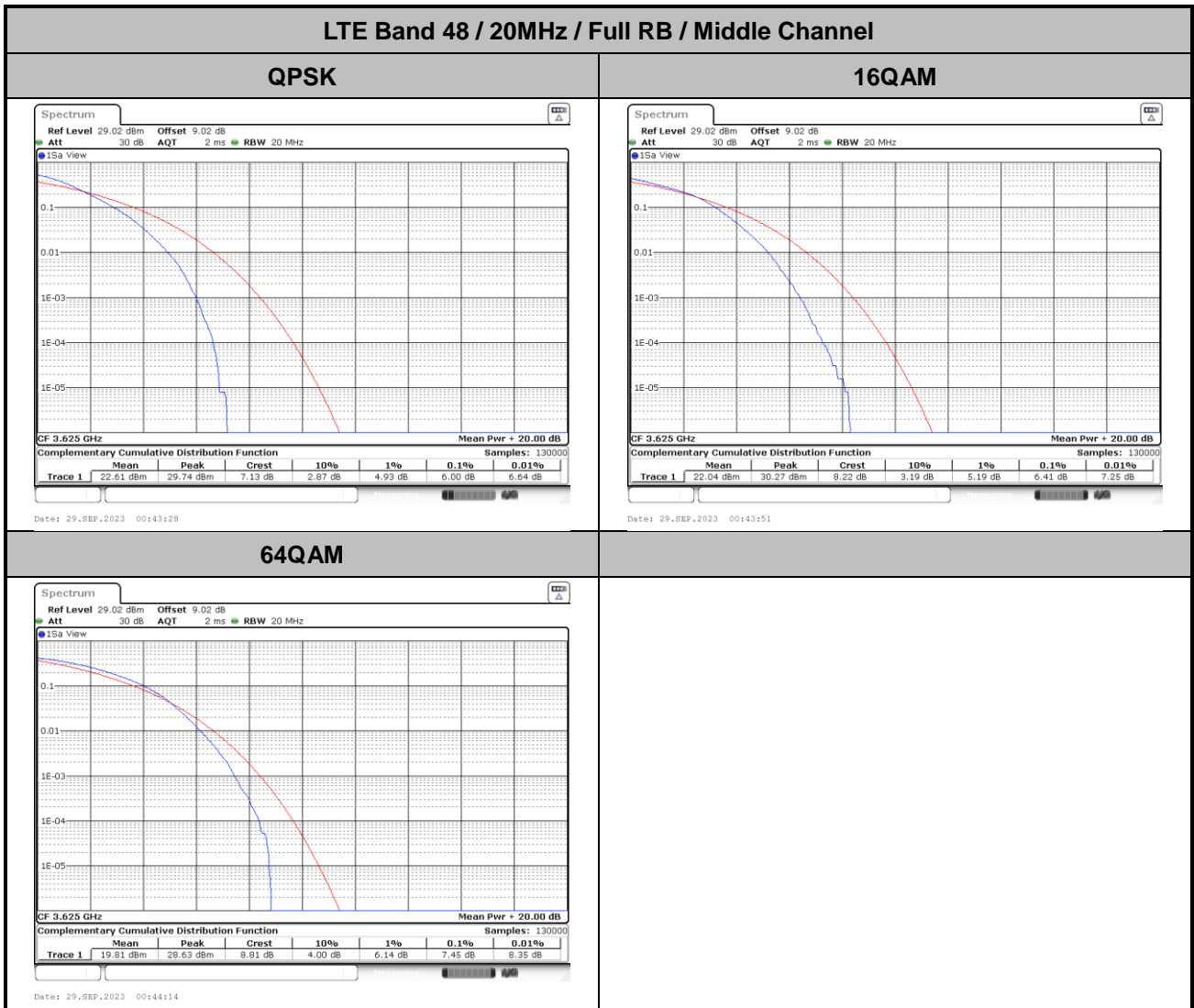
LTE Band 48C							
Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.31	0.1384
M	QPSK	1	Max	1	0	22.05	0.1303
H	QPSK	1	Max	1	0	22.09	0.1315
L	16QAM	1	Max	1	0	21.26	0.1086
M	16QAM	1	Max	1	0	21.16	0.1062
H	16QAM	1	Max	1	0	21.20	0.1072
L	64QAM	1	Max	1	0	19.89	0.0793
M	64QAM	1	Max	1	0	19.89	0.0793
H	64QAM	1	Max	1	0	19.83	0.0782
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.29	0.1377
L	16QAM	1	Max	1	0	21.26	0.1086
Combination 15MHz+20MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.19	0.1346
L	16QAM	1	Max	1	0	21.20	0.1072
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.18	0.1343
L	16QAM	1	Max	1	0	21.24	0.1081
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.29	0.1377
L	16QAM	1	Max	1	0	21.18	0.1067
Combination 20MHz+5MHz (100RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.26	0.1368
L	16QAM	1	Max	1	0	21.15	0.1059
Combination 5MHz+20MHz (25RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.18	0.1343
L	16QAM	1	Max	1	0	21.13	0.1054



LTE Band 48

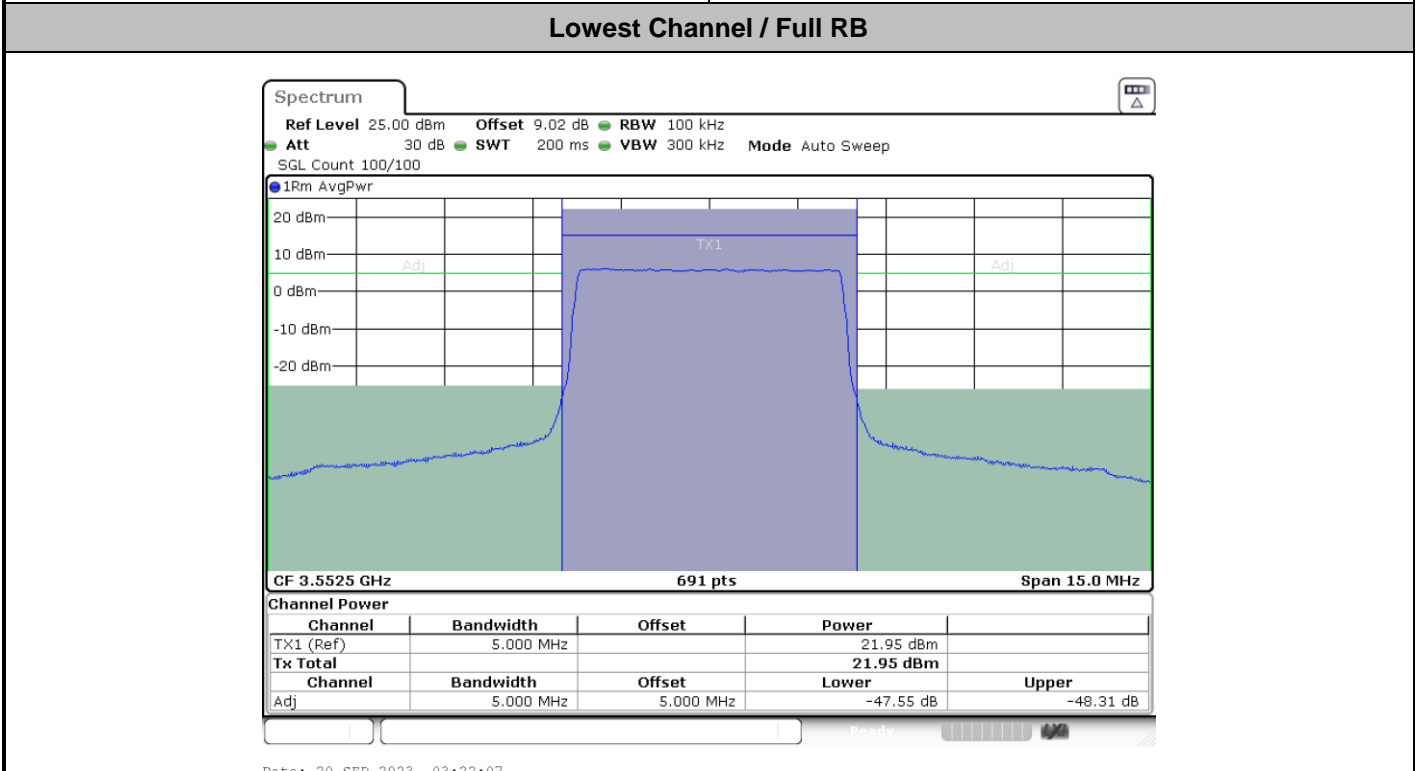
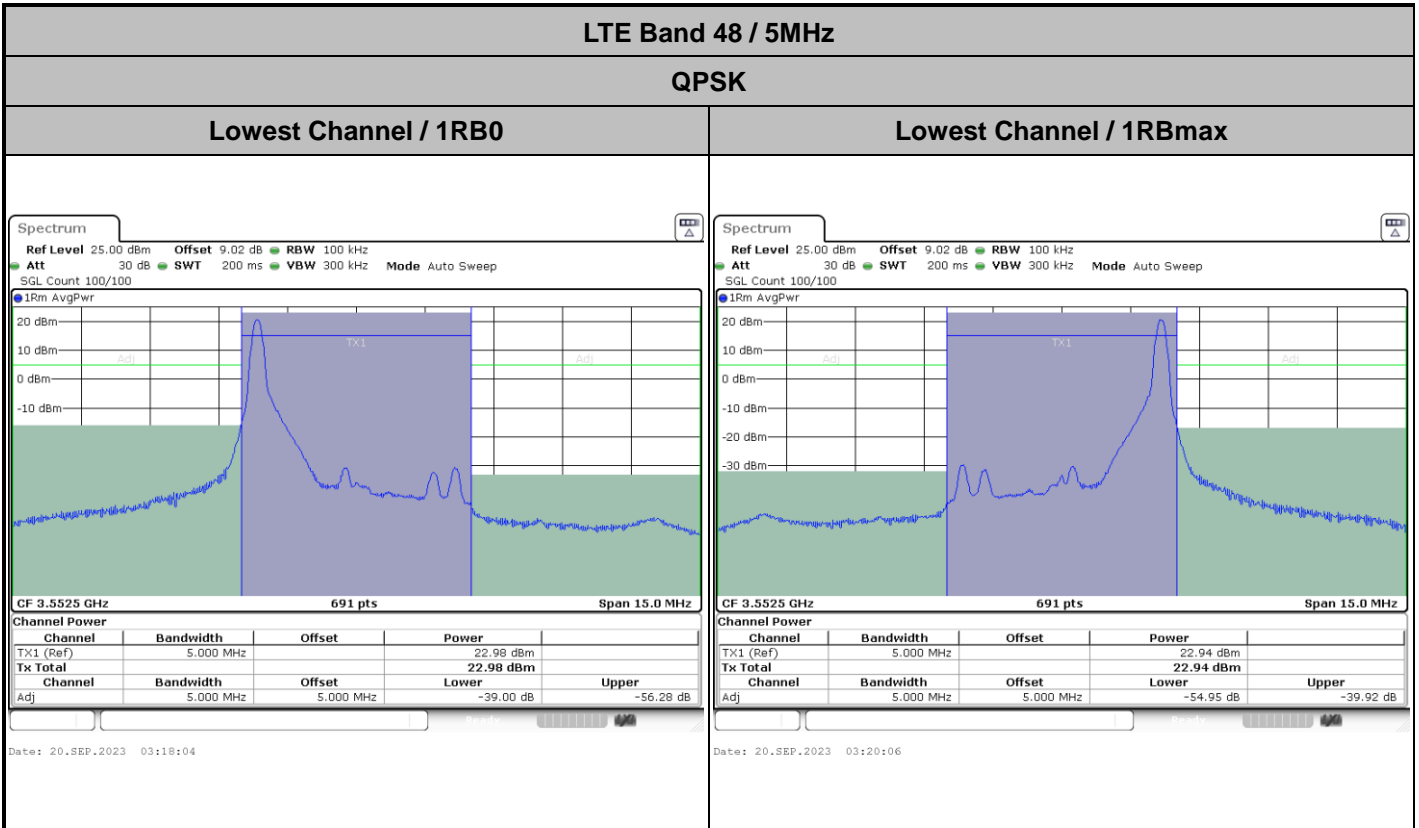
Peak-to-Average Ratio

Mode	LTE Band 48 / 20MHz				
Mod.	QPSK	16QAM	64QAM		Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.00	6.41	7.45		PASS





ACLR



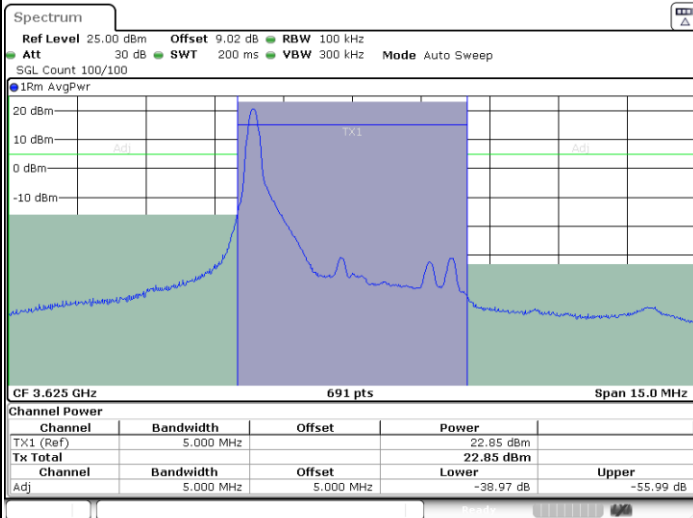


LTE Band 48 / 5MHz

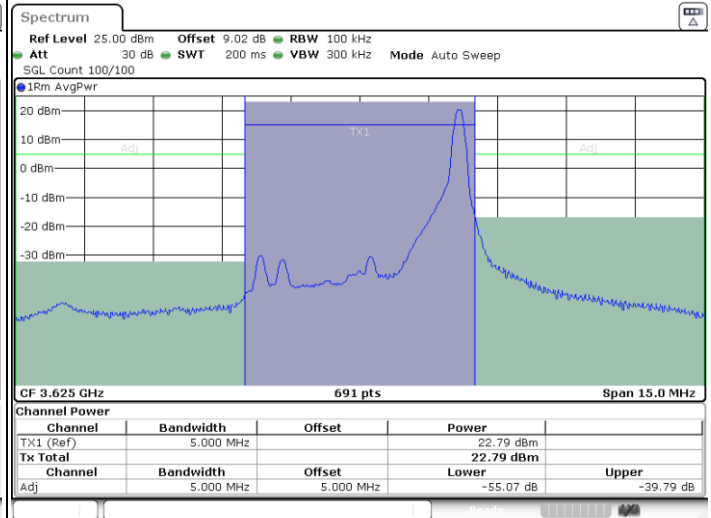
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax

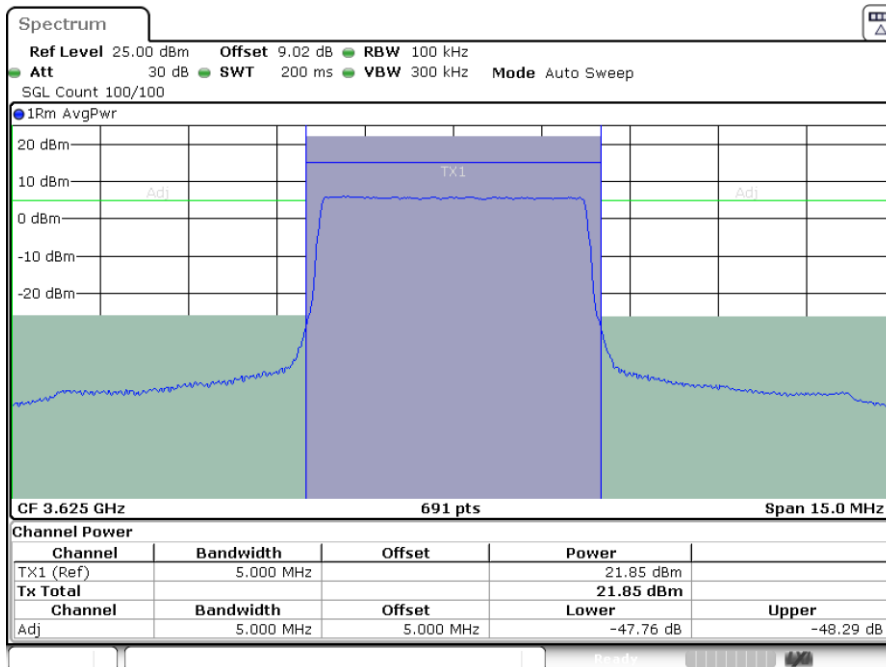


Date: 20.SEP.2023 03:24:09



Date: 20.SEP.2023 03:26:07

Middle Channel / Full RB



Date: 20.SEP.2023 03:28:06

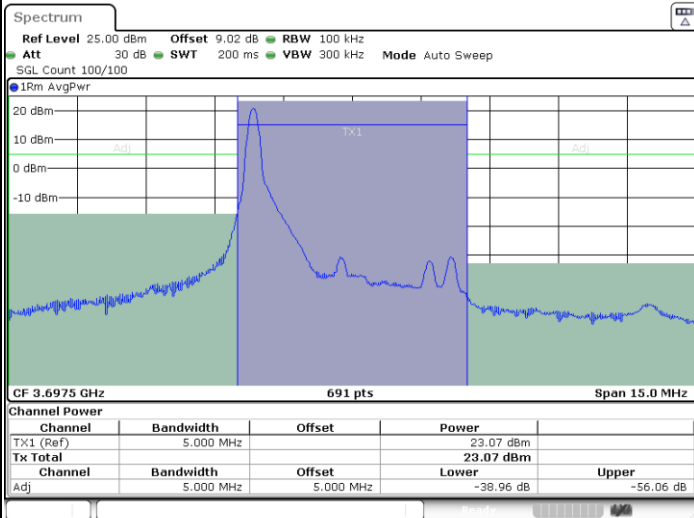


LTE Band 48 / 5MHz

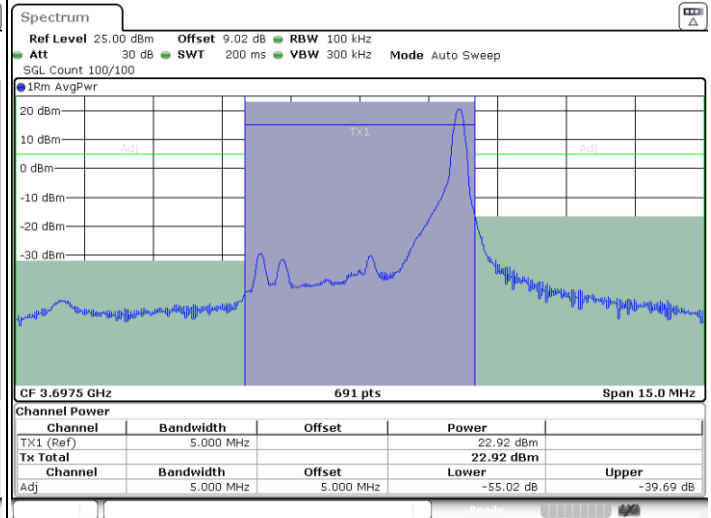
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

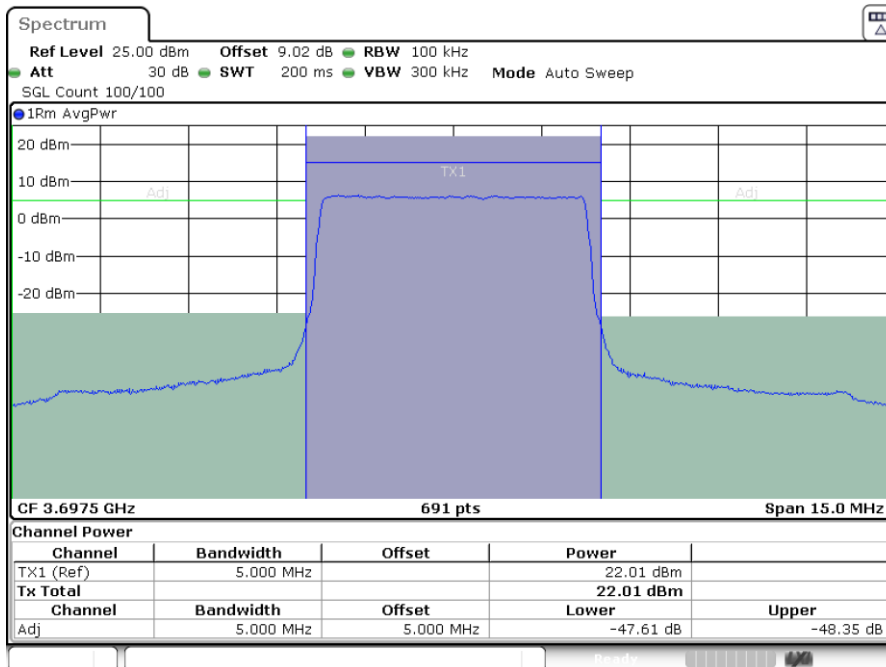


Date: 20.SEP.2023 03:30:05



Date: 20.SEP.2023 03:32:09

Highest Channel / Full RB



Date: 20.SEP.2023 03:34:12

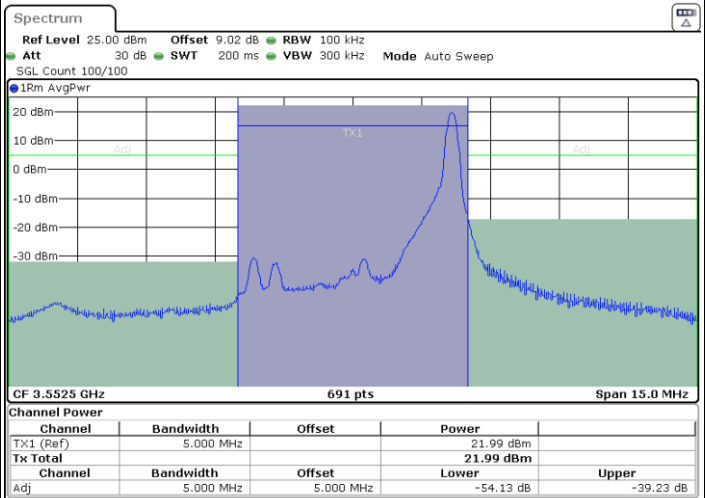
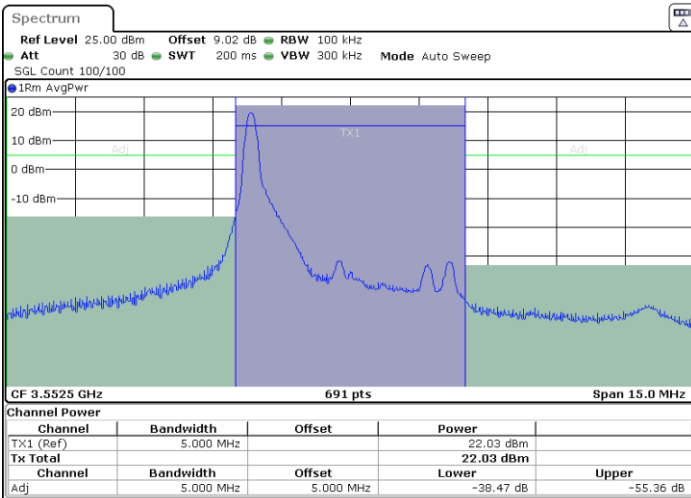


LTE Band 48 / 5MHz

16QAM

Lowest Channel / 1RB0

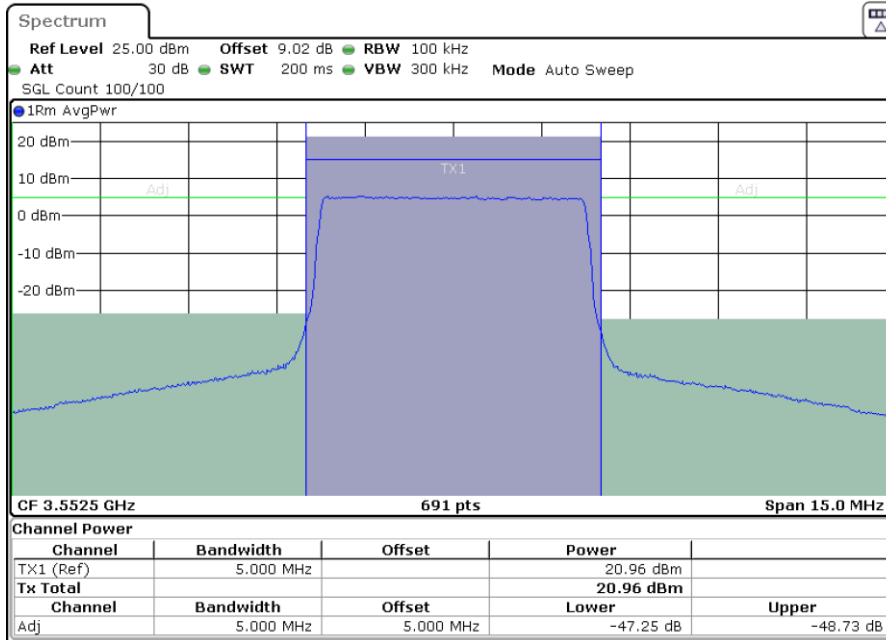
Lowest Channel / 1RBmax



Date: 20.SEP.2023 03:18:45

Date: 20.SEP.2023 03:20:47

Lowest Channel / Full RB



Date: 20.SEP.2023 03:22:48

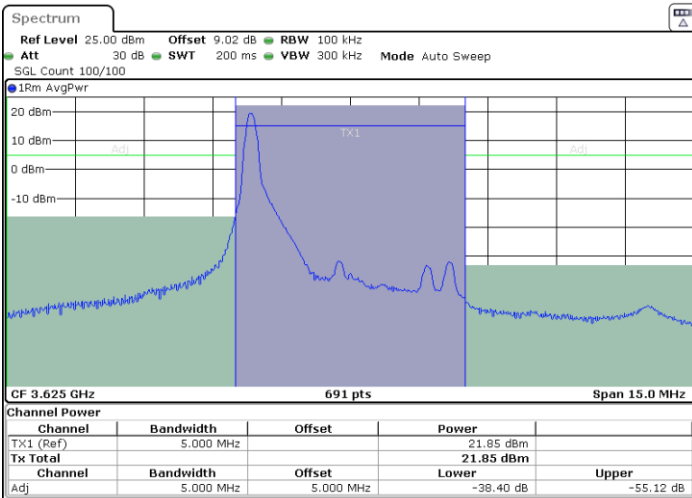


LTE Band 48 / 5MHz

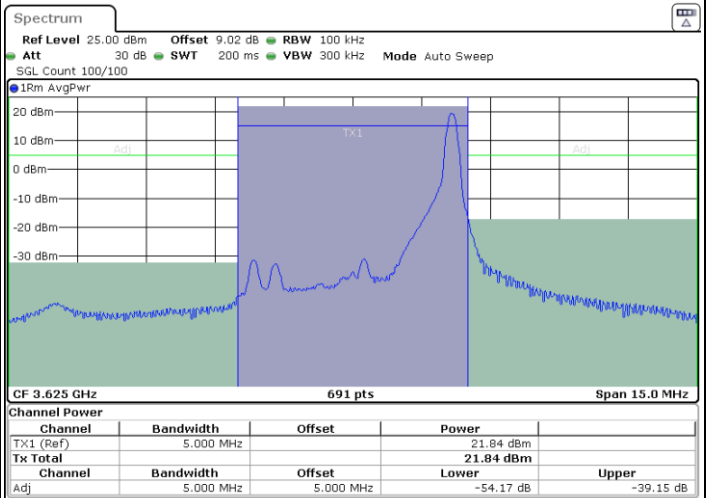
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

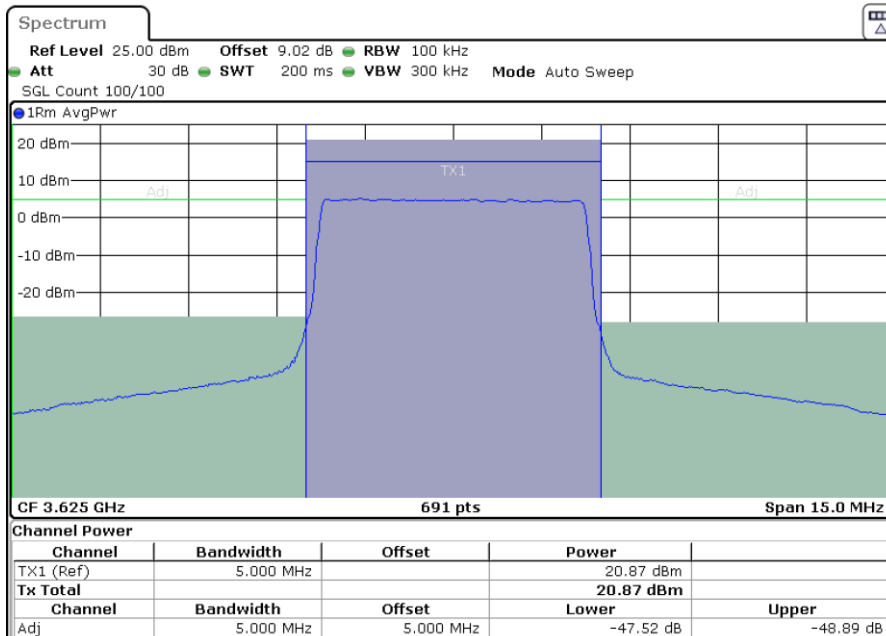


Date: 20_SEP_2023 03:24:49



Date: 20_SEP_2023 03:26:47

Middle Channel / Full RB



Date: 20_SEP_2023 03:28:45

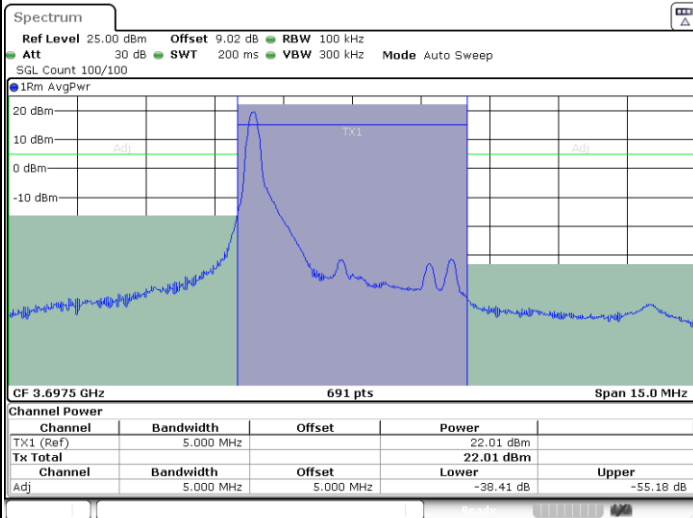


LTE Band 48 / 5MHz

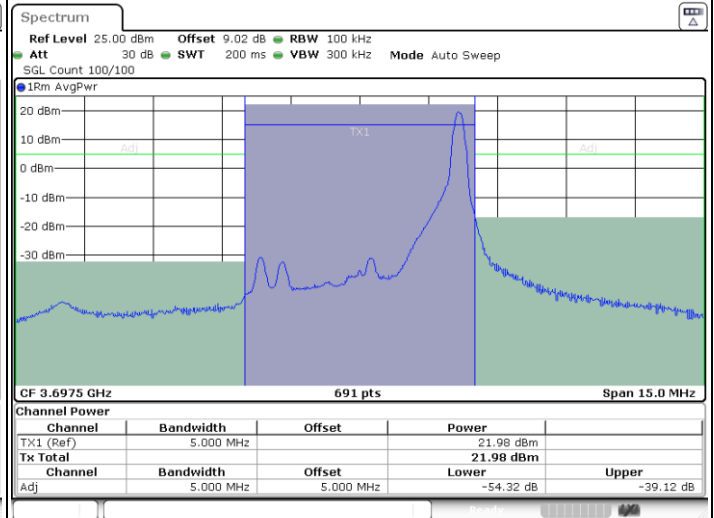
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

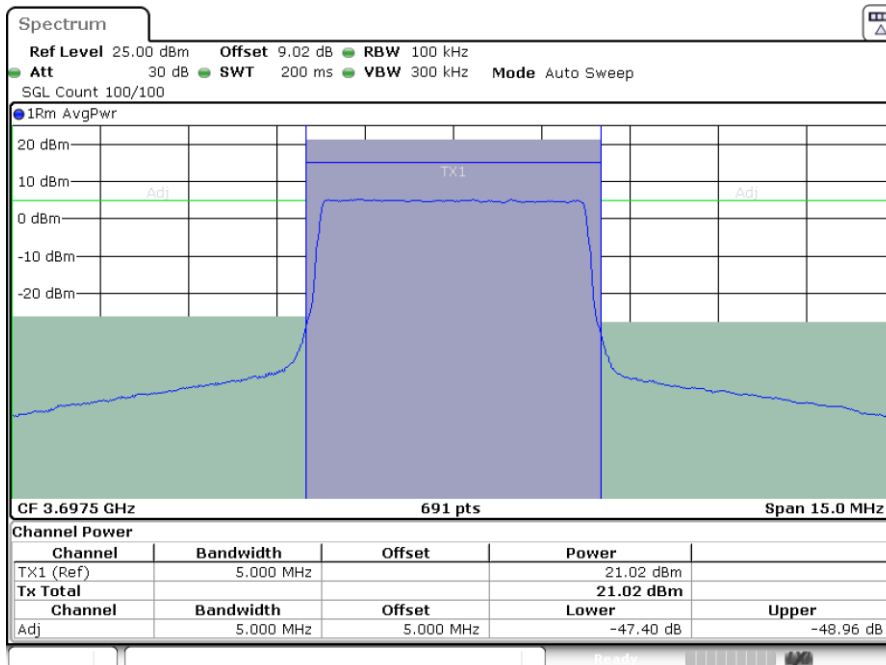


Date: 20.SEP.2023 03:30:47



Date: 20.SEP.2023 03:32:50

Highest Channel / Full RB



Date: 20.SEP.2023 03:34:53

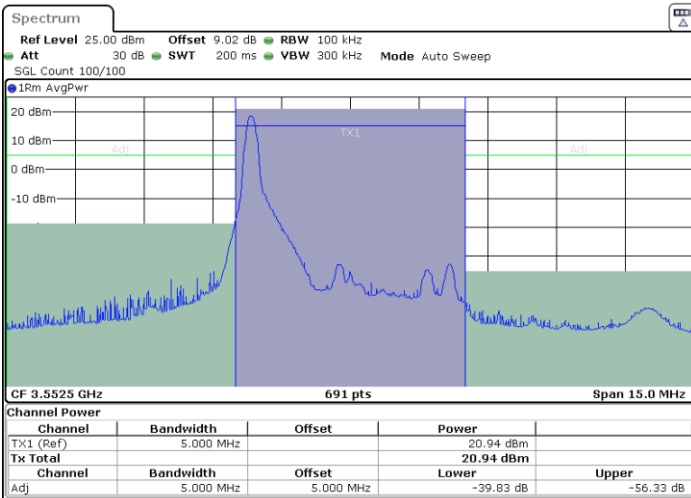


LTE Band 48 / 5MHz

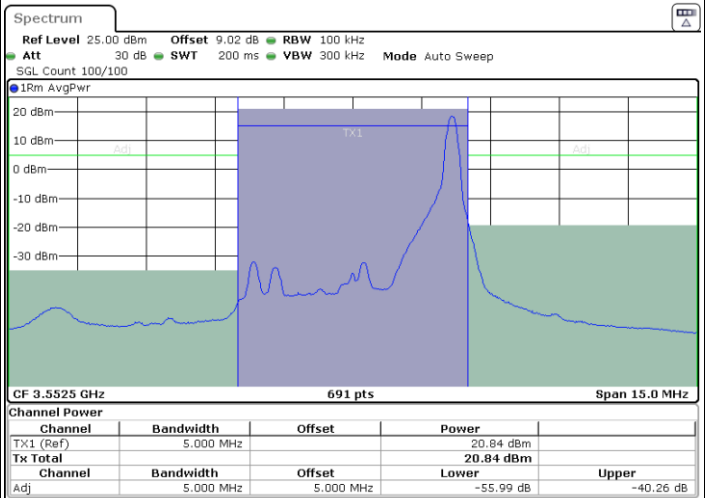
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

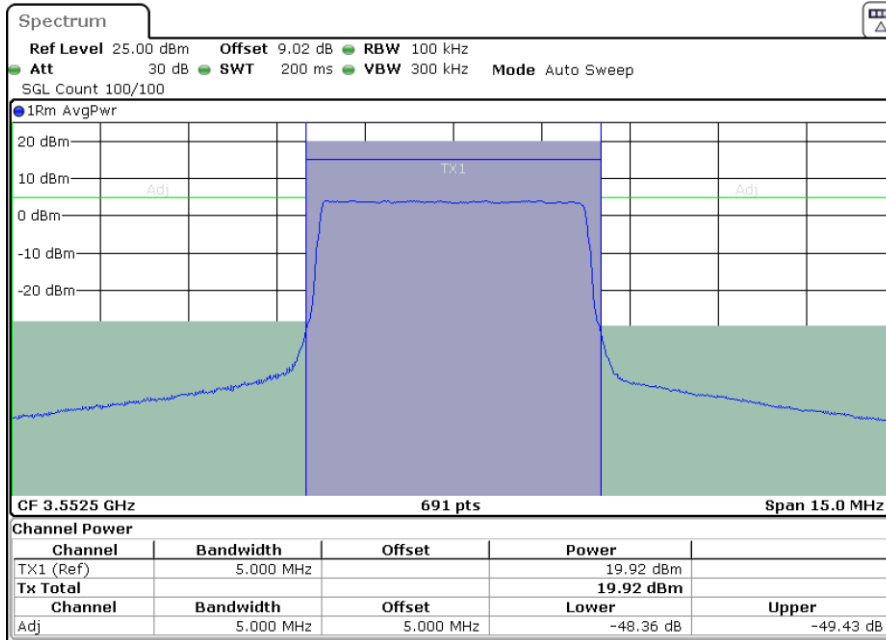


Date: 20_SEP_2023 03:19:25



Date: 20_SEP_2023 03:21:27

Lowest Channel / Full RB



Date: 20_SEP_2023 03:23:29

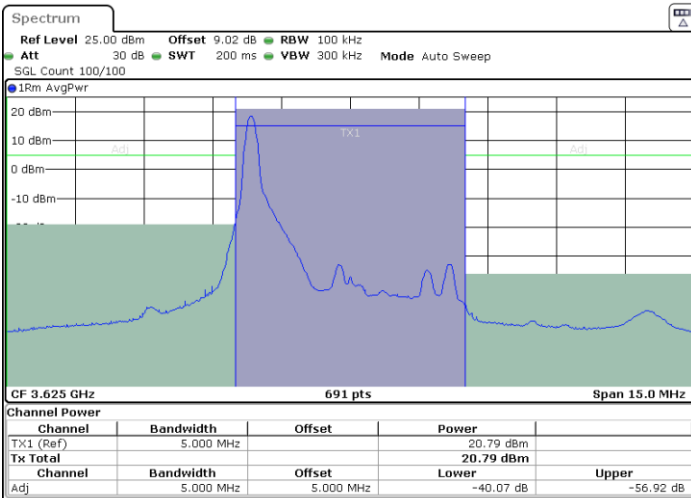


LTE Band 48 / 5MHz

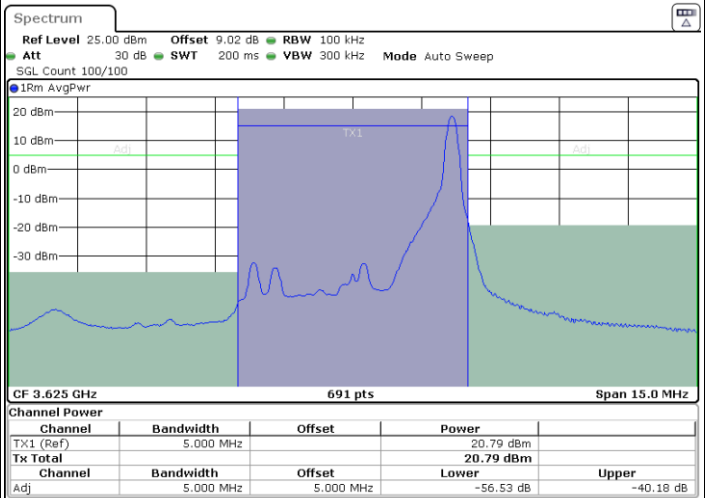
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



Date: 20_SEP_2023 03:25:28



Date: 20_SEP_2023 03:27:26

Middle Channel / Full RB



Date: 20_SEP_2023 03:29:25

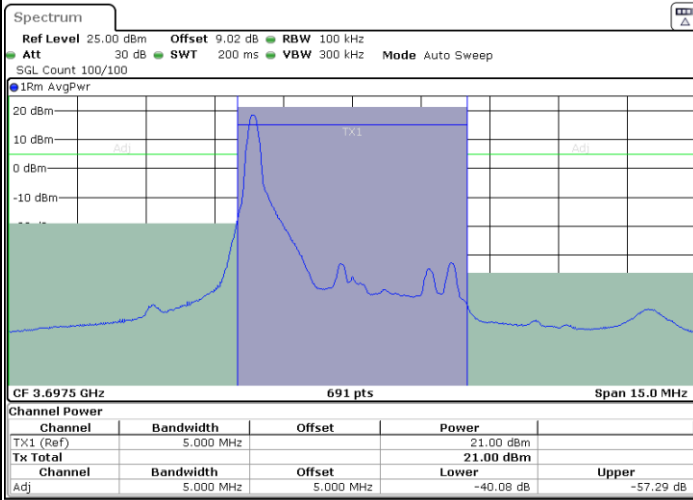


LTE Band 48 / 5MHz

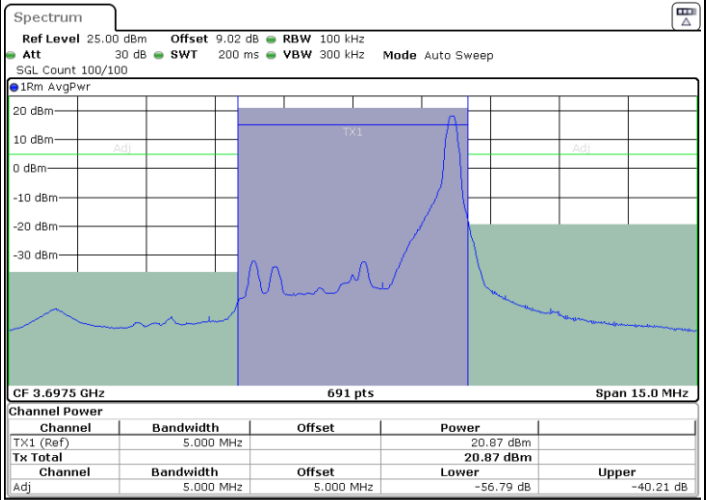
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

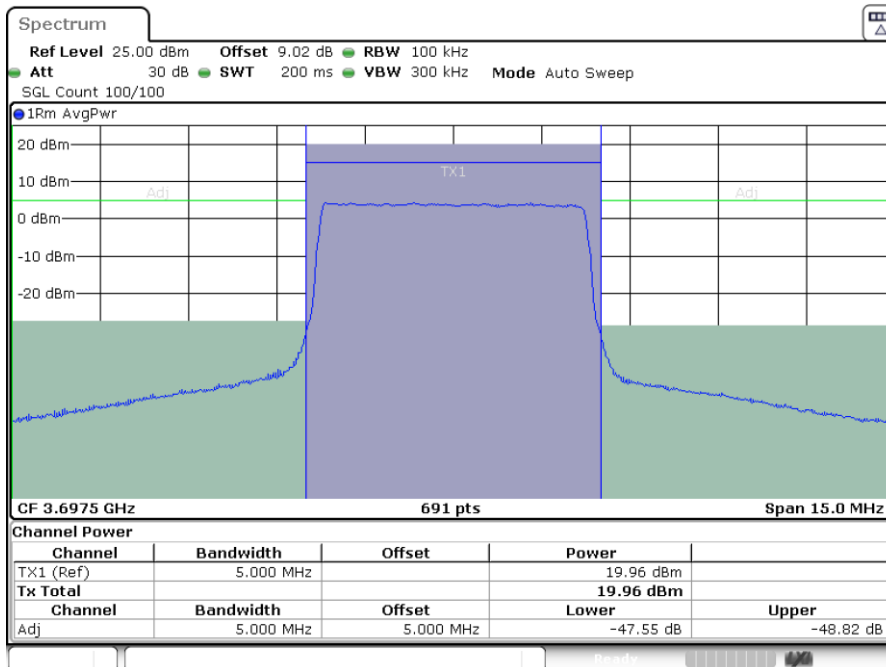


Date: 20.SEP.2023 03:31:27



Date: 20.SEP.2023 03:33:31

Highest Channel / Full RB



Date: 20.SEP.2023 03:35:34

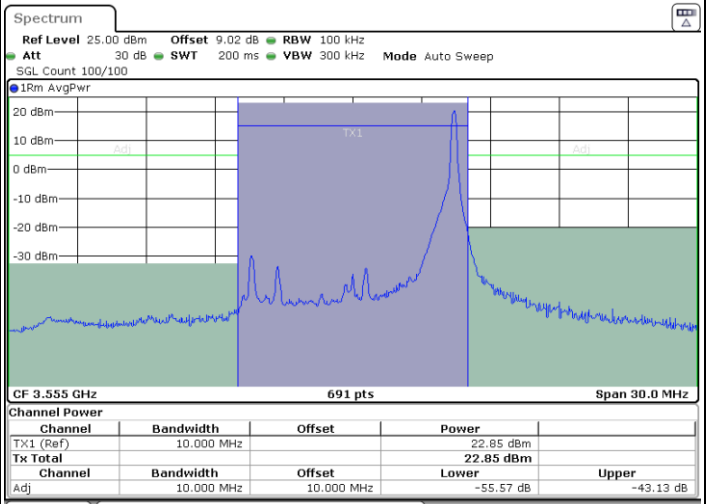
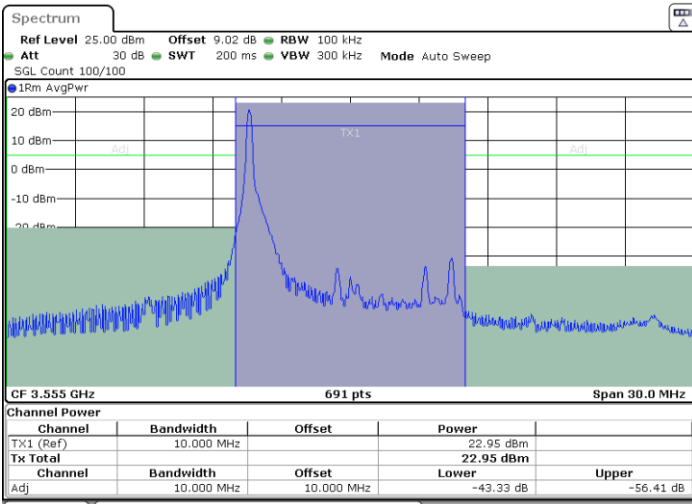


LTE Band 48 / 10MHz

QPSK

Lowest Channel / 1RB0

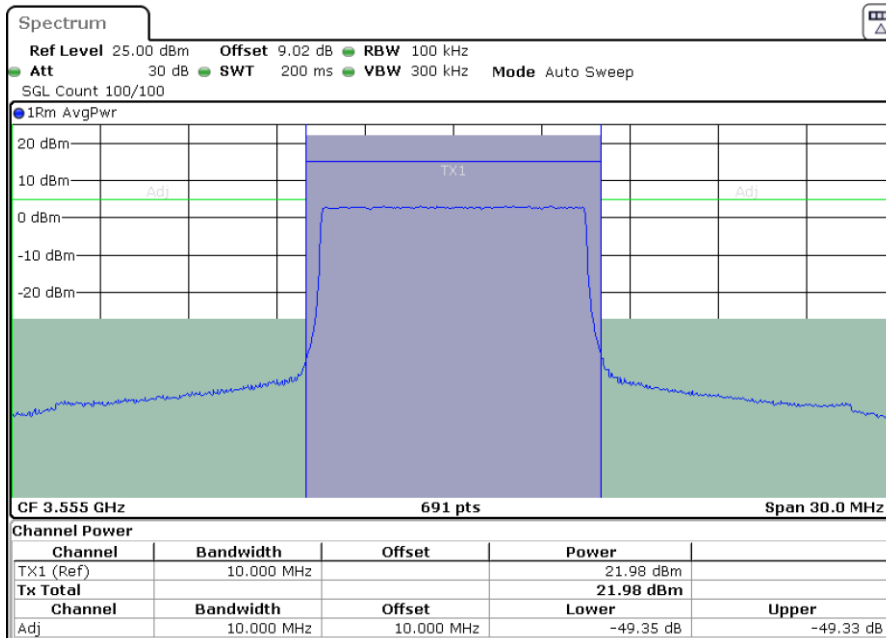
Lowest Channel / 1RBmax



Date: 20.SEP.2023 03:36:15

Date: 20.SEP.2023 03:38:15

Lowest Channel / Full RB



Date: 20.SEP.2023 03:40:16

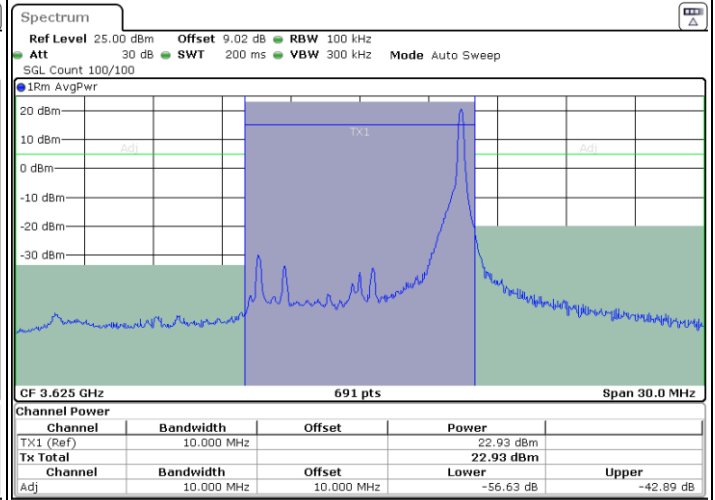
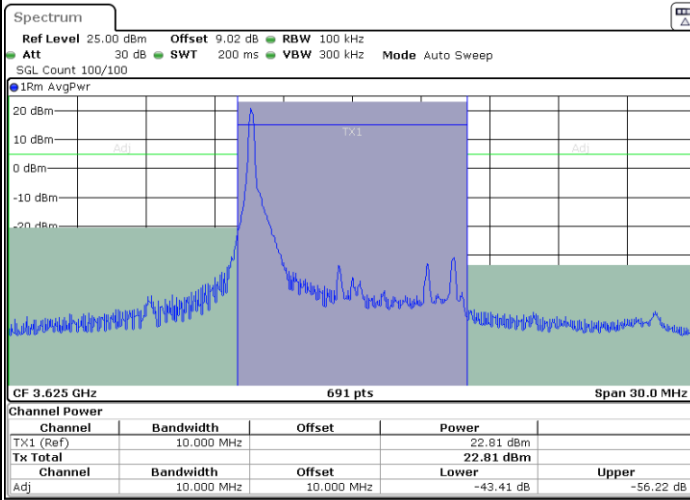


LTE Band 48 / 10MHz

QPSK

Middle Channel / 1RB0

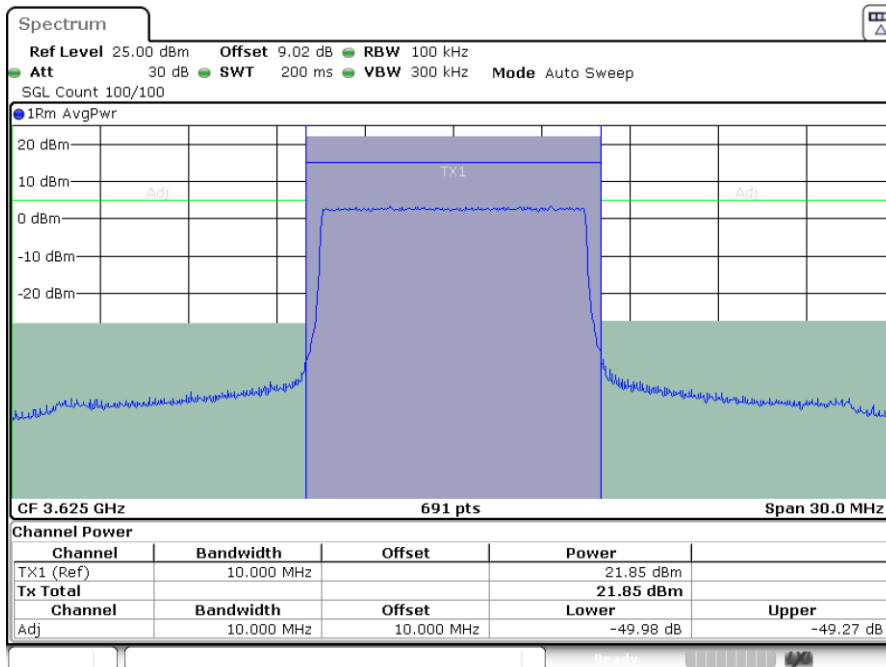
Middle Channel / 1RBmax



Date: 20.SEP.2023 03:42:17

Date: 20.SEP.2023 03:44:17

Middle Channel / Full RB



Date: 20.SEP.2023 03:46:16

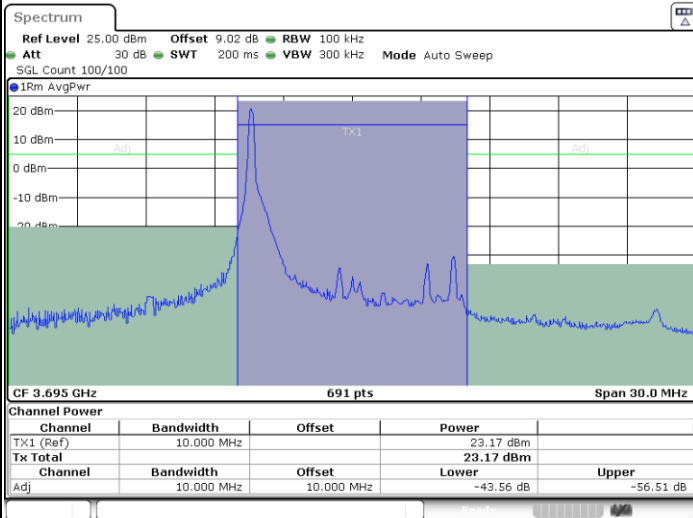


LTE Band 48 / 10MHz

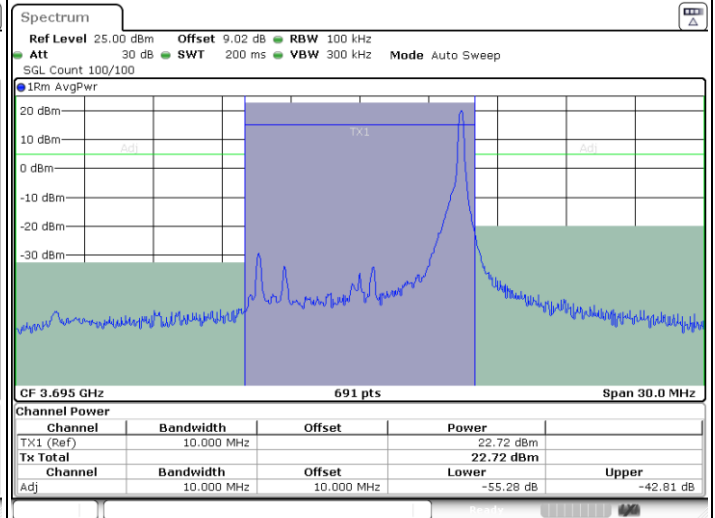
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

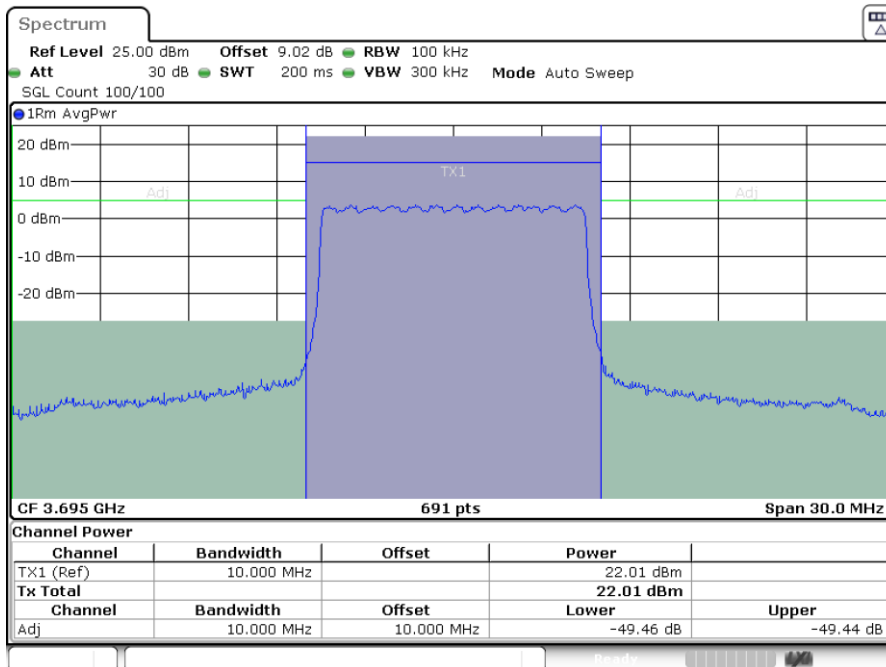


Date: 20_SEP_2023 03:48:17



Date: 20_SEP_2023 03:50:20

Highest Channel / Full RB



Date: 20_SEP_2023 03:52:23

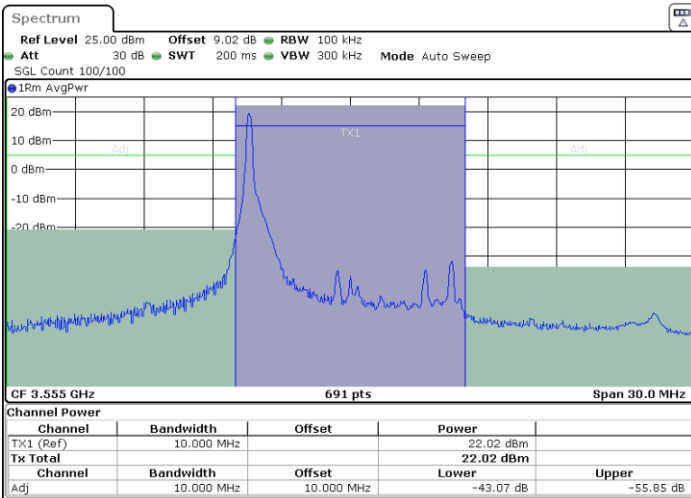


LTE Band 48 / 10MHz

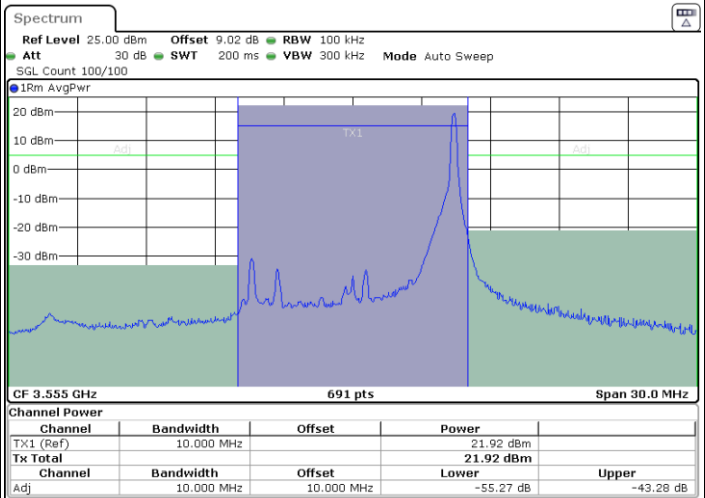
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

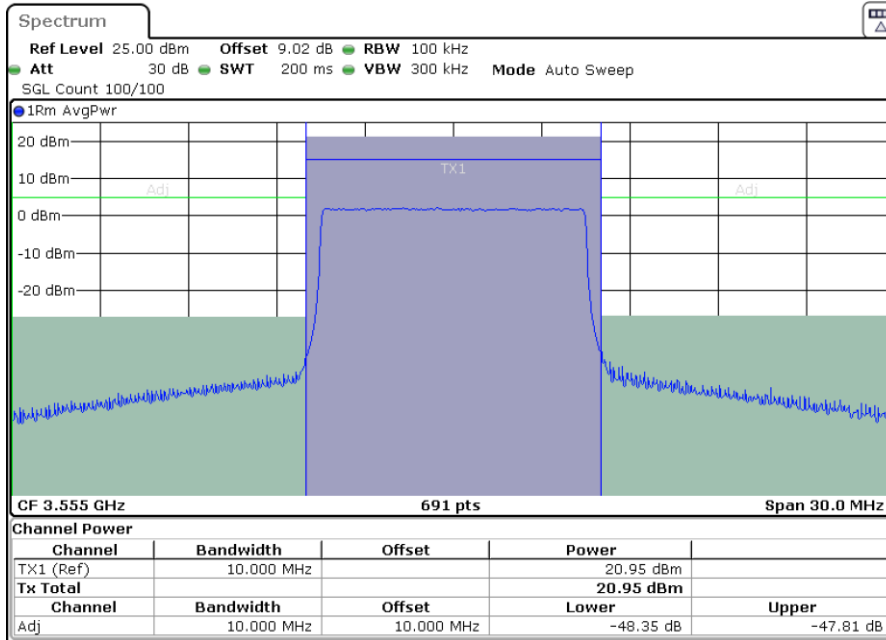


Date: 20_SEP_2023 03:36:55



Date: 20_SEP_2023 03:38:55

Lowest Channel / Full RB



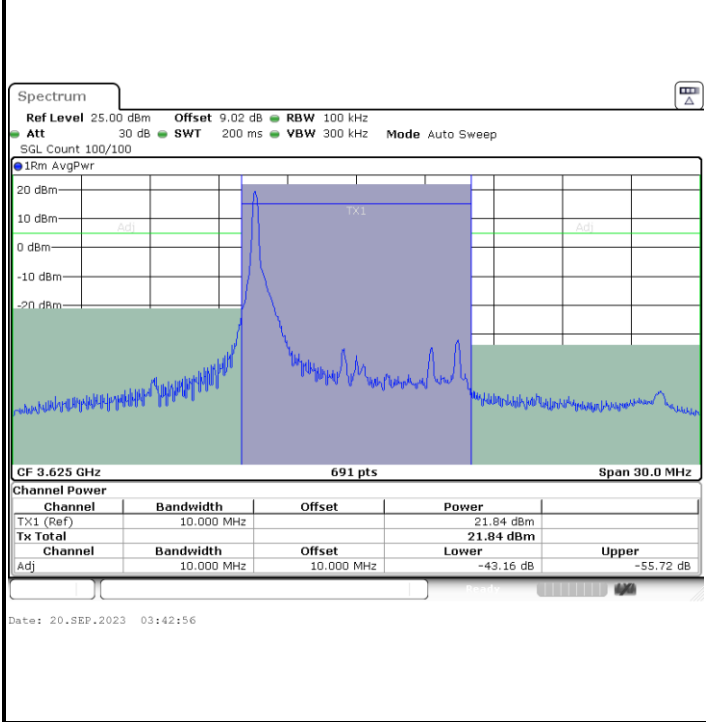
Date: 20_SEP_2023 03:40:57



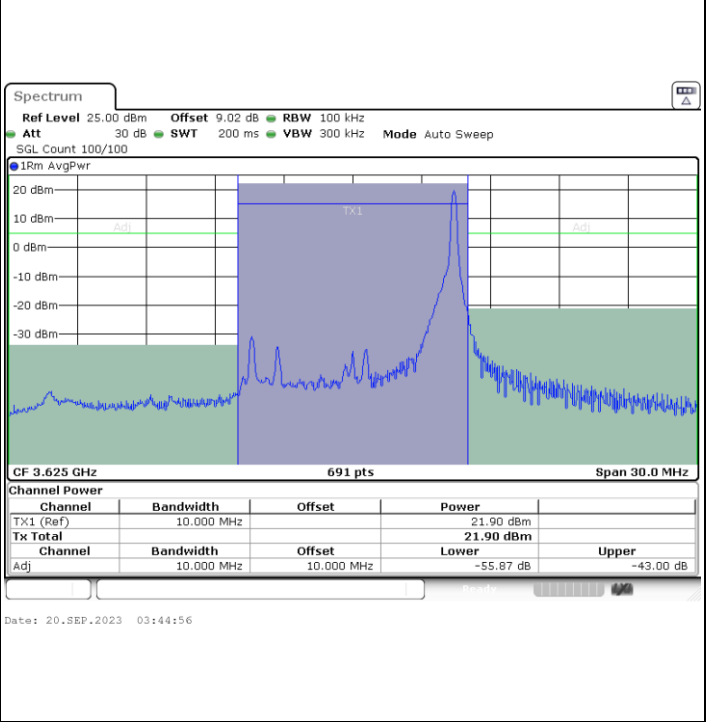
LTE Band 48 / 10MHz

16QAM

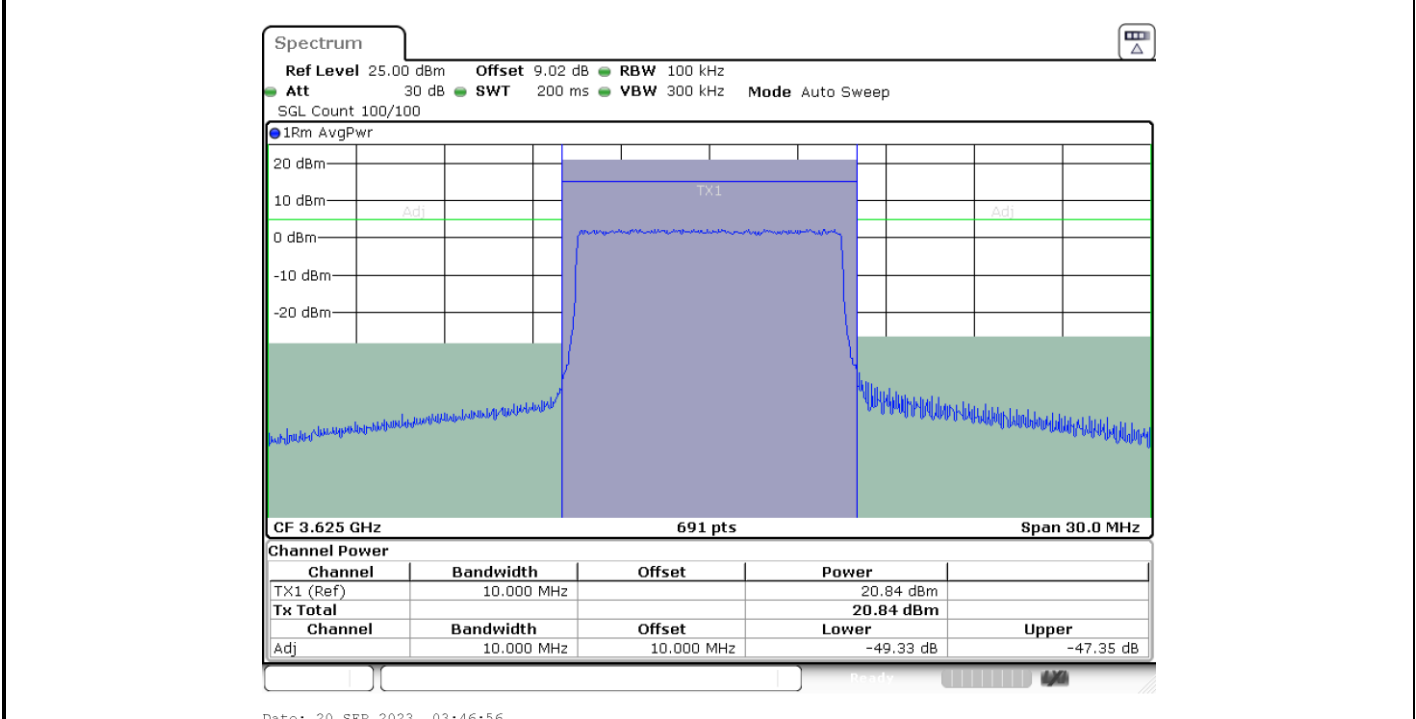
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



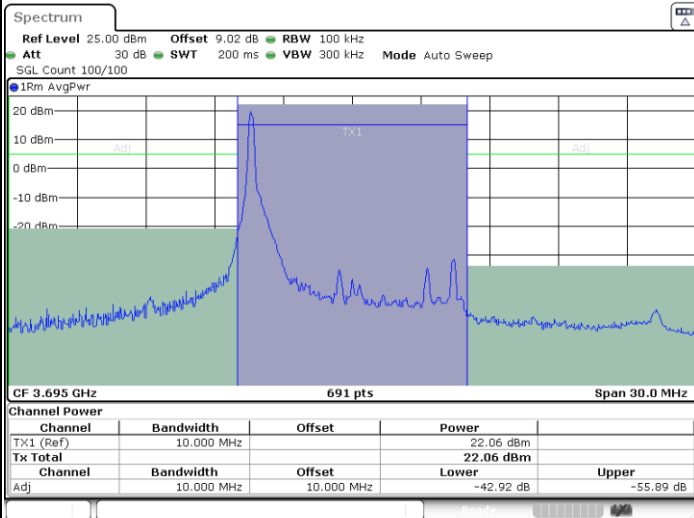


LTE Band 48 / 10MHz

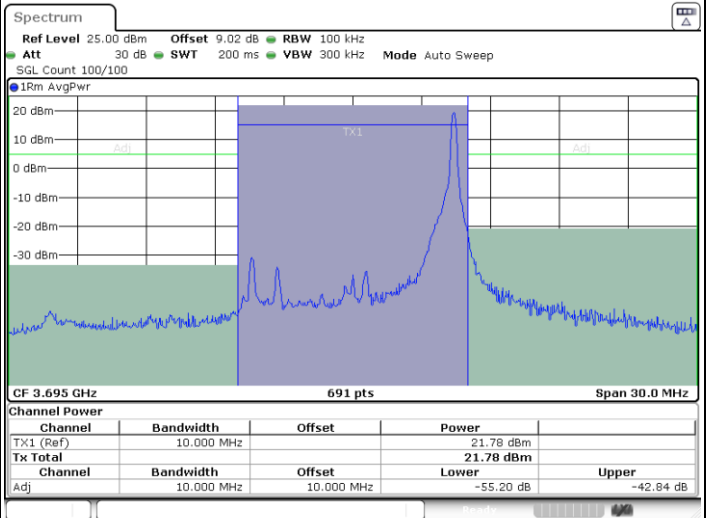
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

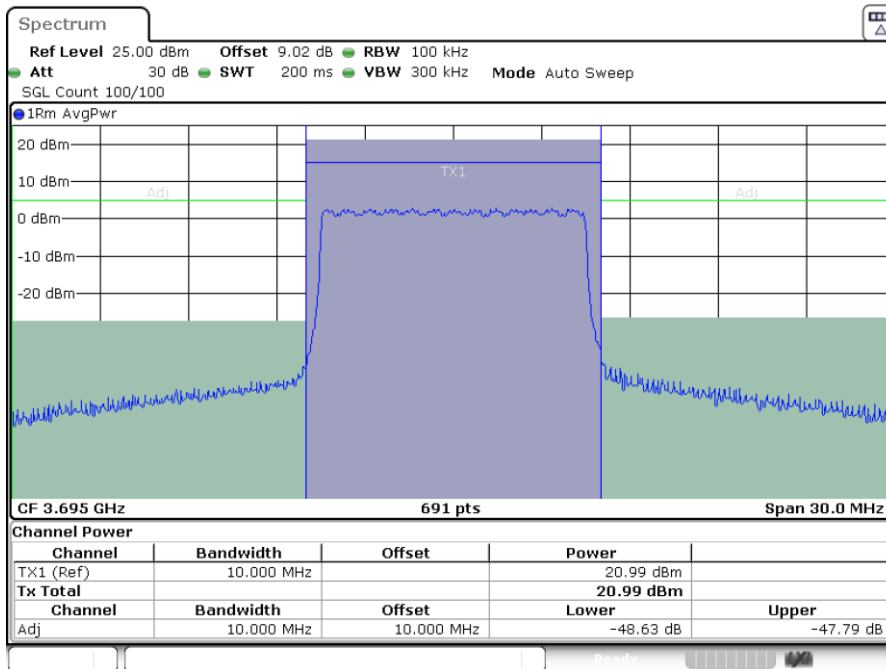


Date: 20.SEP.2023 03:48:58



Date: 20.SEP.2023 03:51:01

Highest Channel / Full RB



Date: 20.SEP.2023 03:53:04

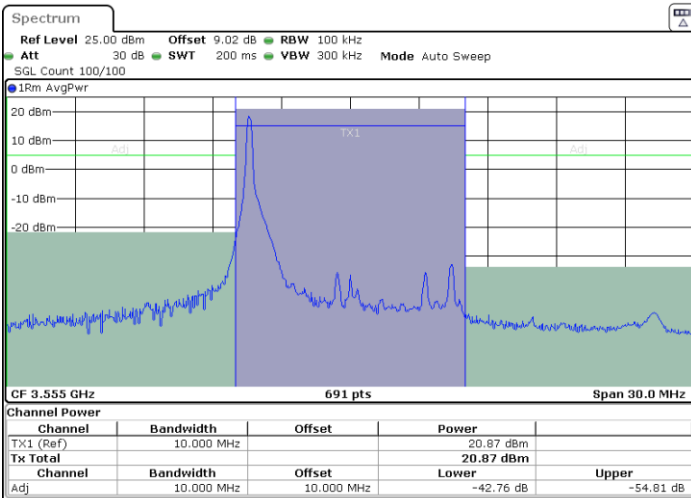


LTE Band 48 / 10MHz

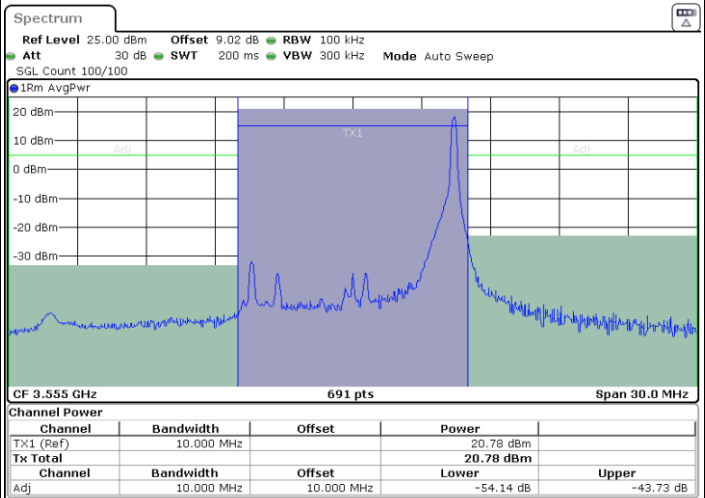
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

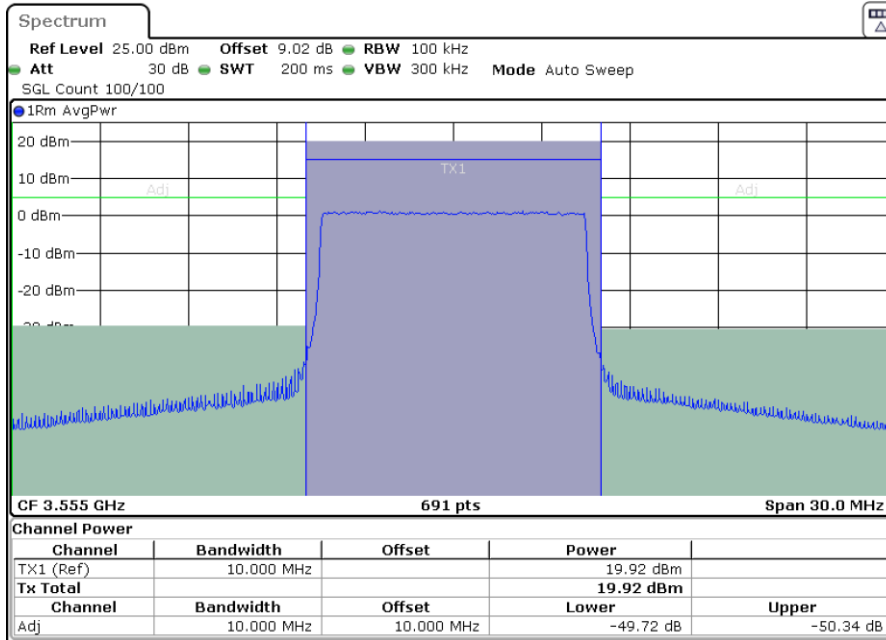


Date: 20_SEP_2023 03:37:35



Date: 20_SEP_2023 03:39:36

Lowest Channel / Full RB



Date: 20_SEP_2023 03:41:37

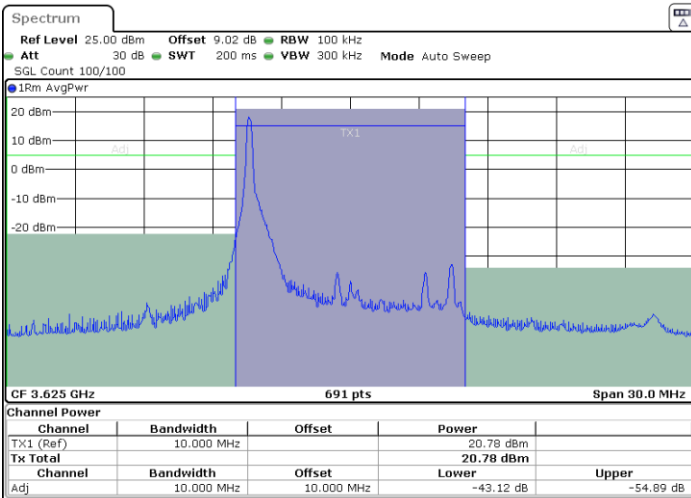


LTE Band 48 / 10MHz

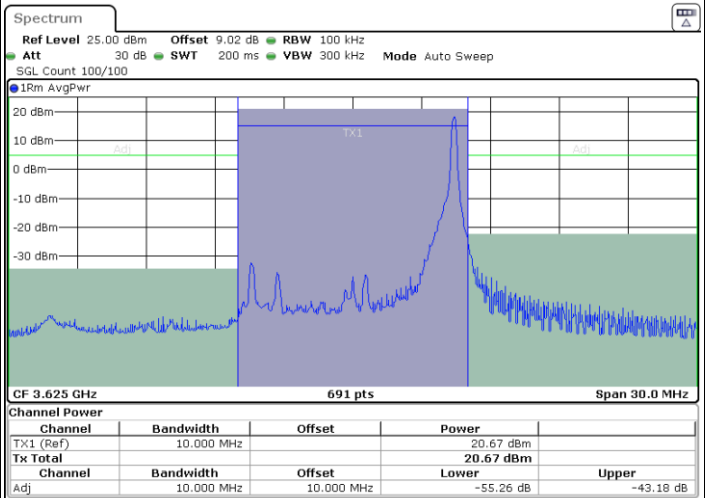
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

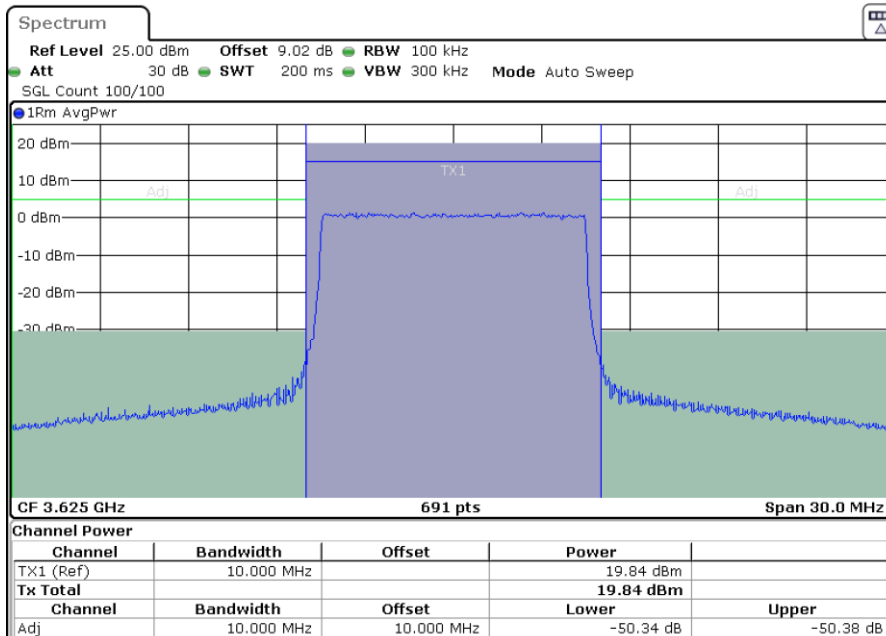


Date: 20_SEP_2023 03:43:36



Date: 20_SEP_2023 03:45:36

Middle Channel / Full RB



Date: 20_SEP_2023 03:47:36

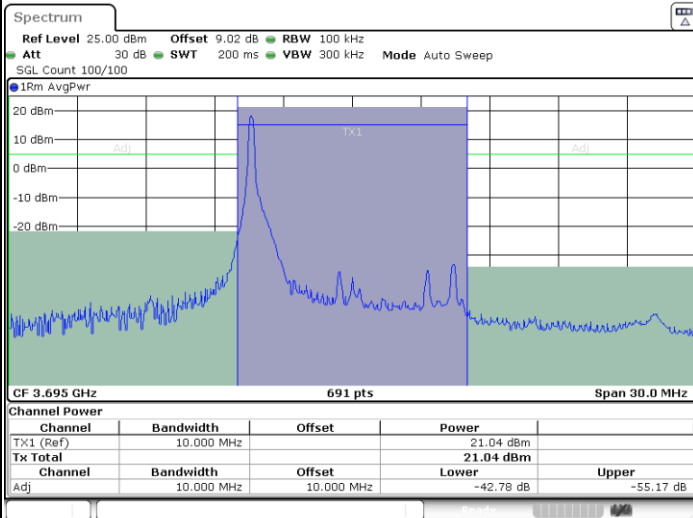


LTE Band 48 / 10MHz

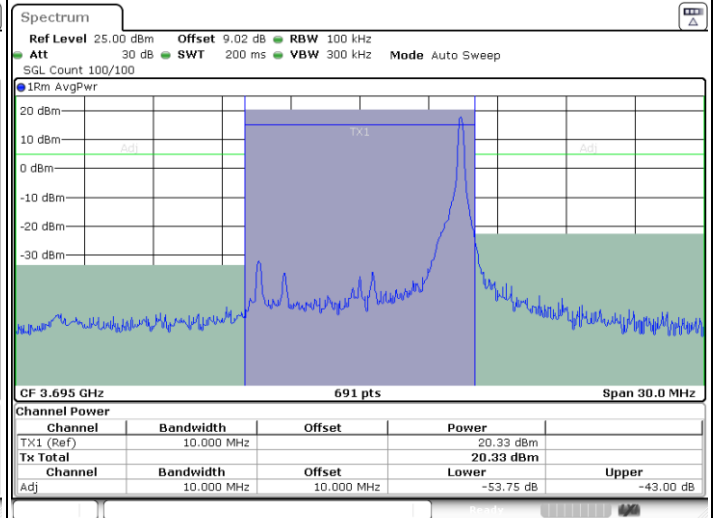
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

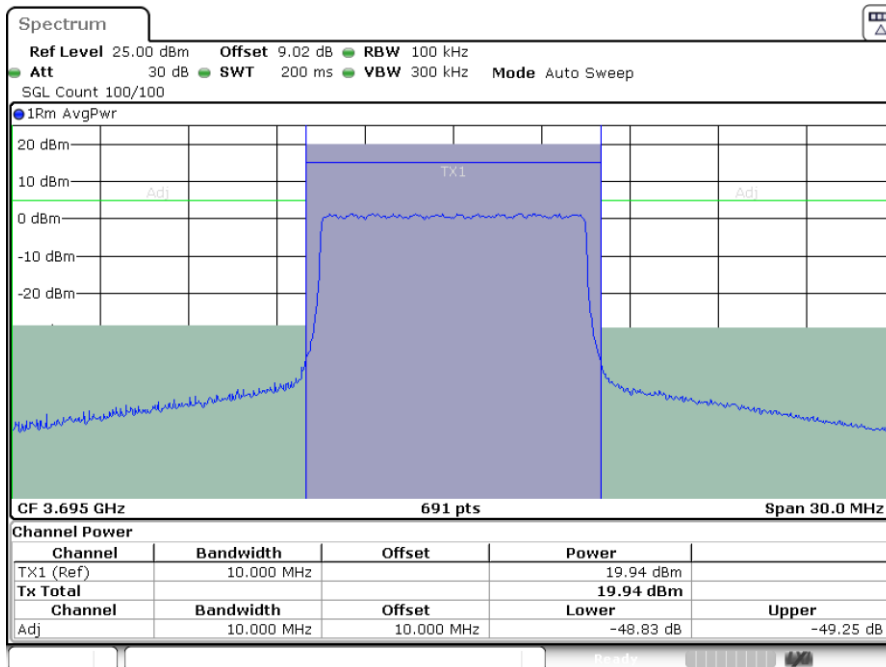


Date: 20.SEP.2023 03:49:39



Date: 20.SEP.2023 03:51:42

Highest Channel / Full RB



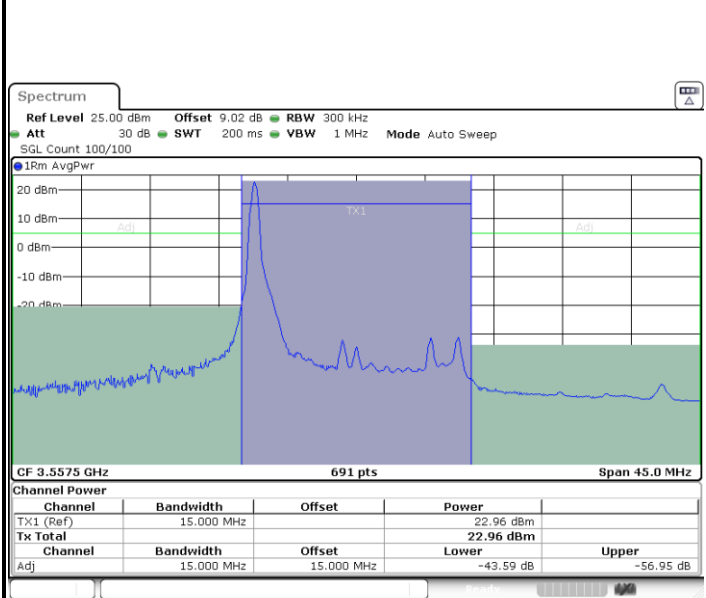
Date: 20.SEP.2023 03:53:45



LTE Band 48 / 15MHz

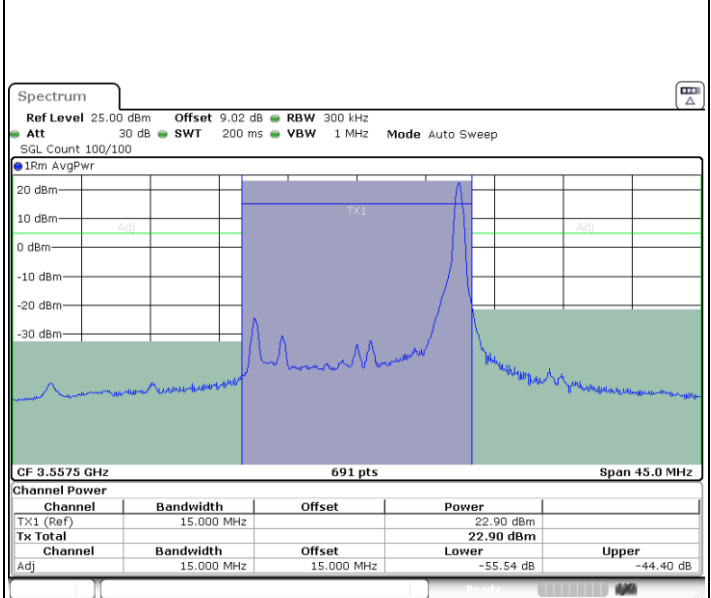
QPSK

Lowest Channel / 1RB0



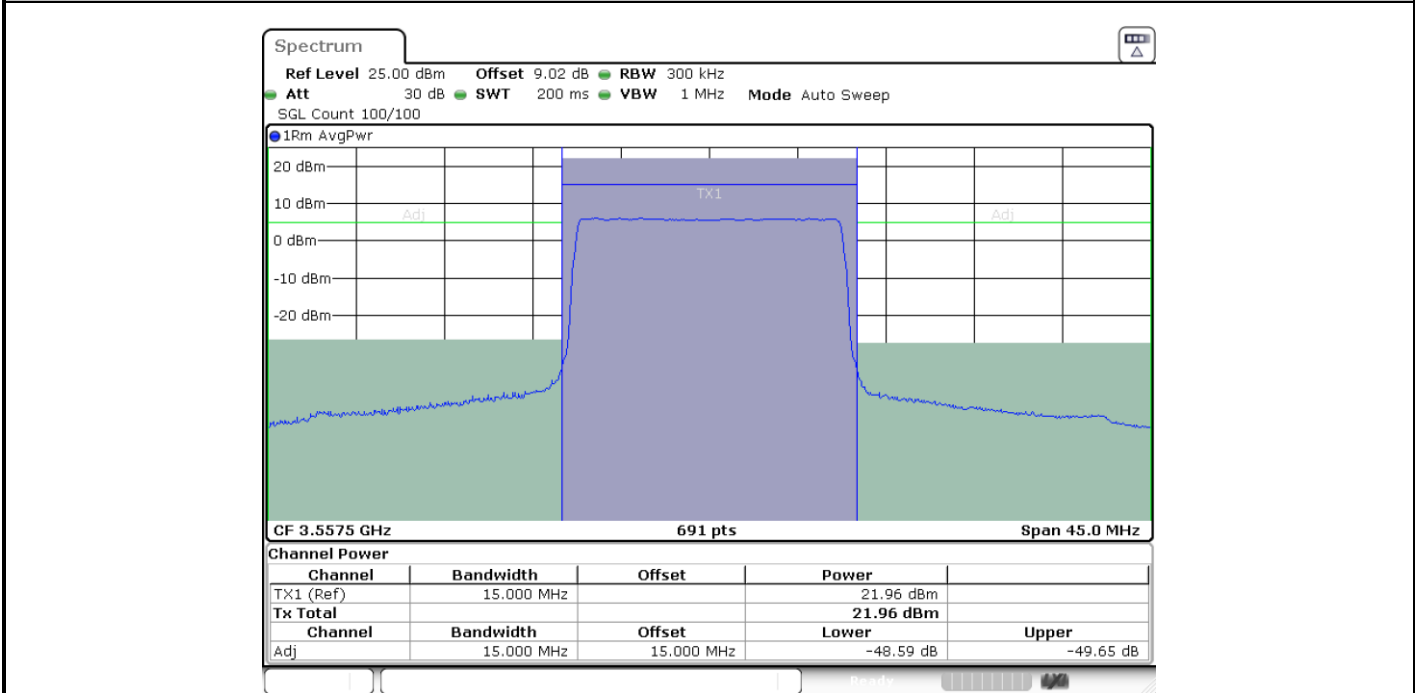
Date: 20.SEP.2023 03:54:24

Lowest Channel / 1RBmax



Date: 20.SEP.2023 03:56:19

Lowest Channel / Full RB



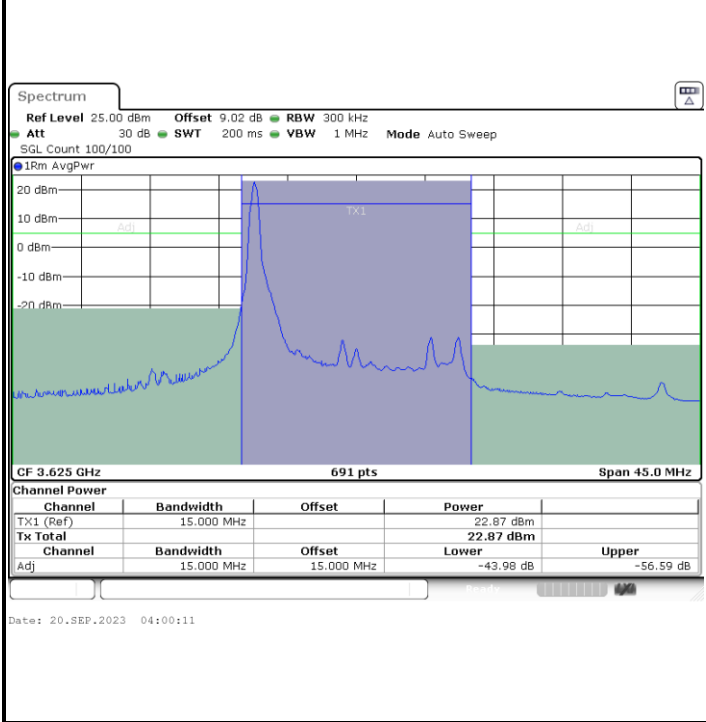
Date: 20.SEP.2023 03:58:15



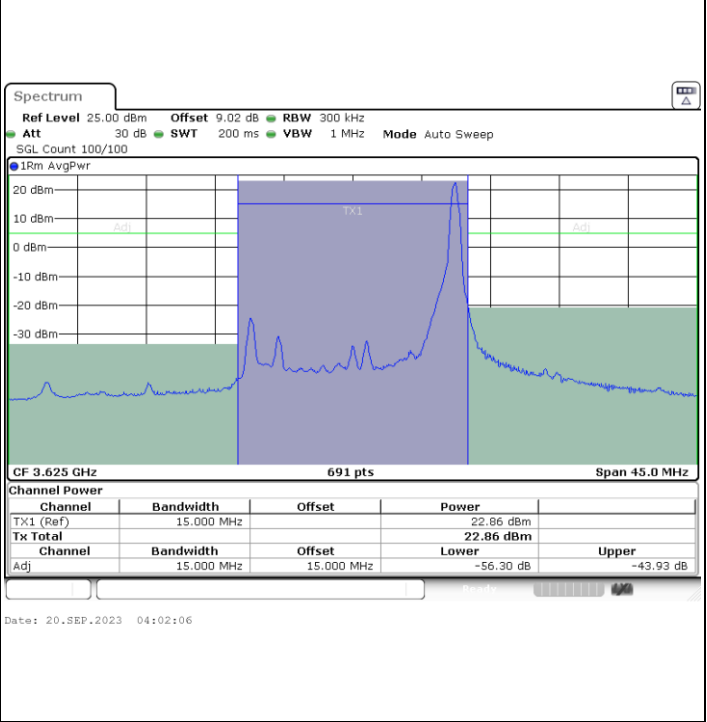
LTE Band 48 / 15MHz

QPSK

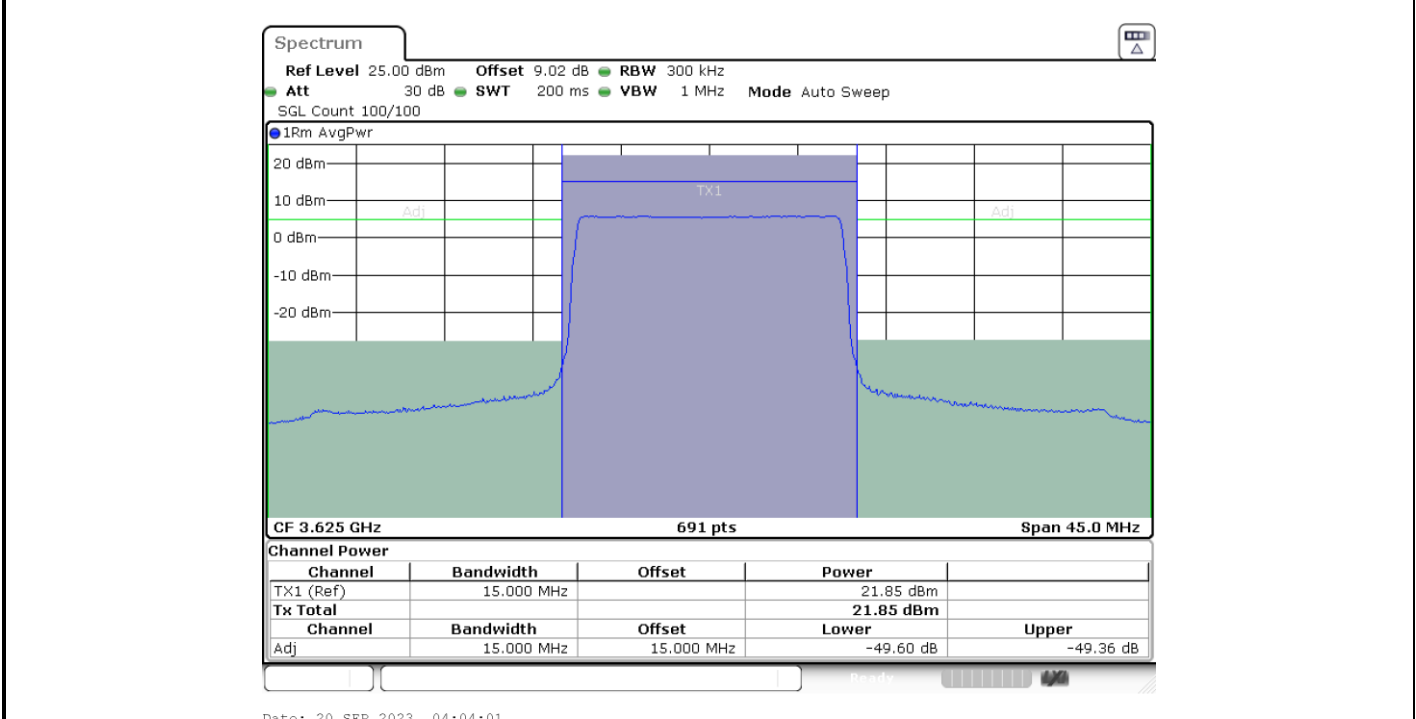
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



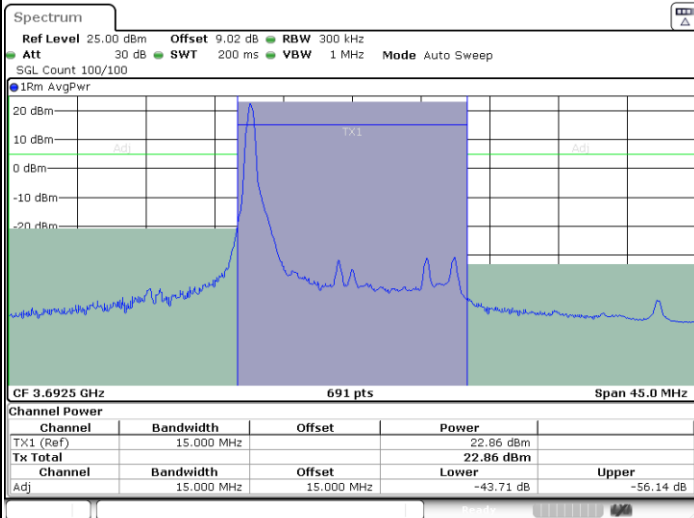


LTE Band 48 / 15MHz

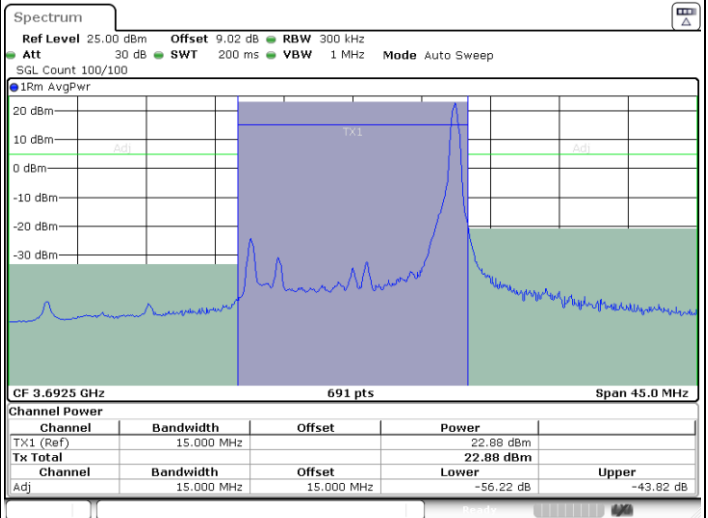
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

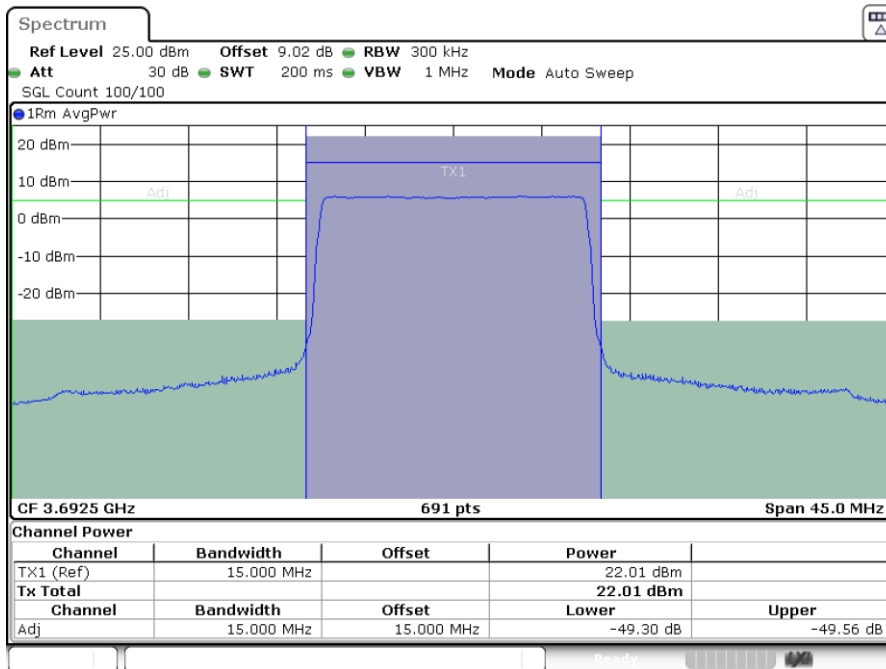


Date: 20.SEP.2023 04:05:56



Date: 20.SEP.2023 04:07:52

Highest Channel / Full RB



Date: 20.SEP.2023 04:09:46

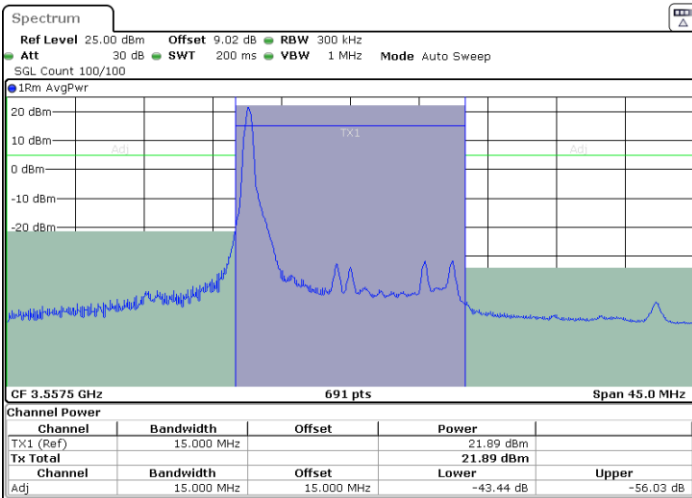


LTE Band 48 / 15MHz

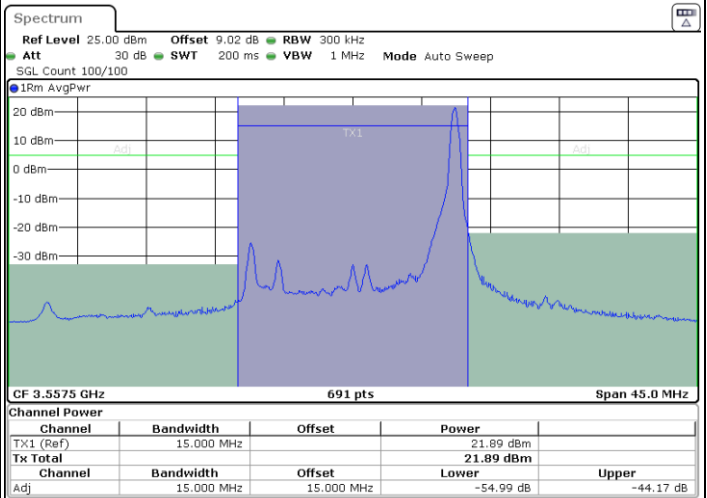
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

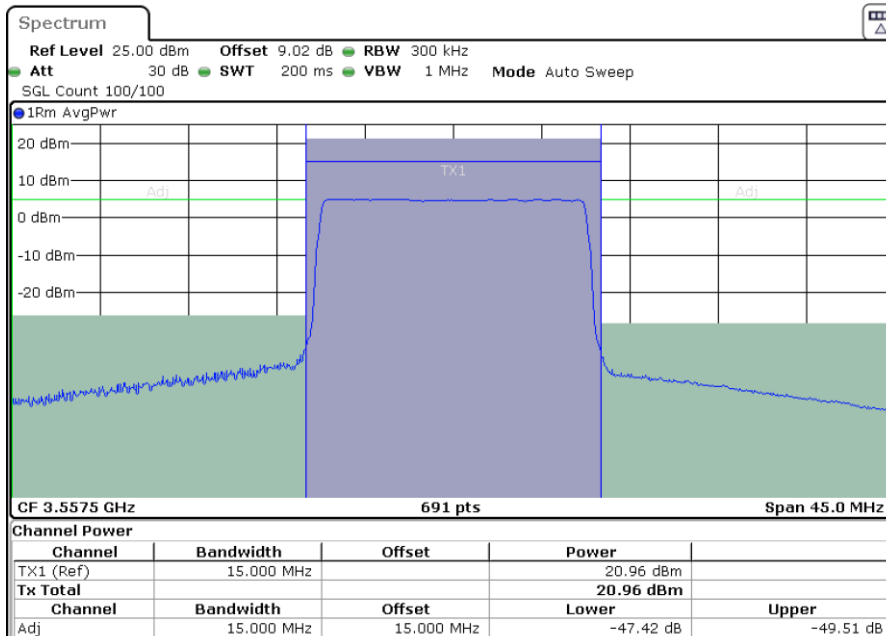


Date: 20_SEP_2023 03:55:02



Date: 20_SEP_2023 03:56:58

Lowest Channel / Full RB



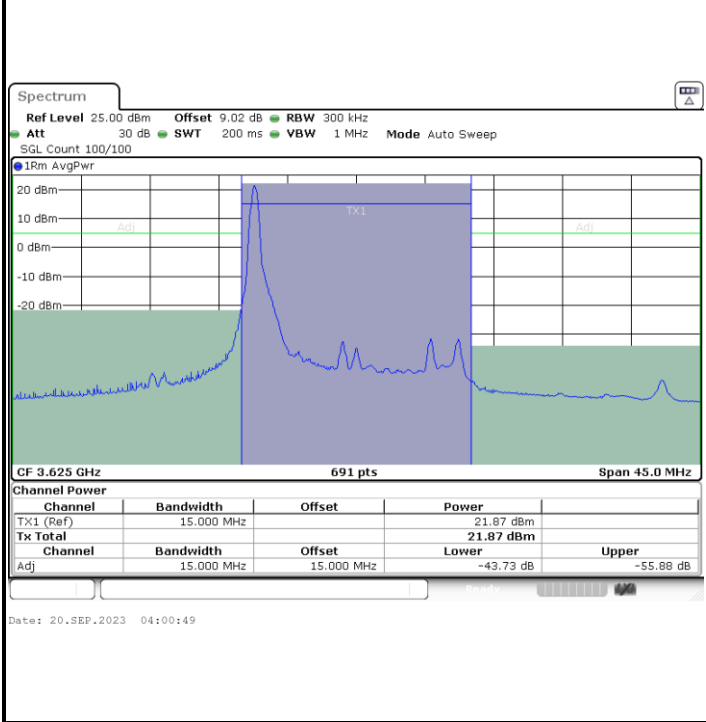
Date: 20_SEP_2023 03:58:54



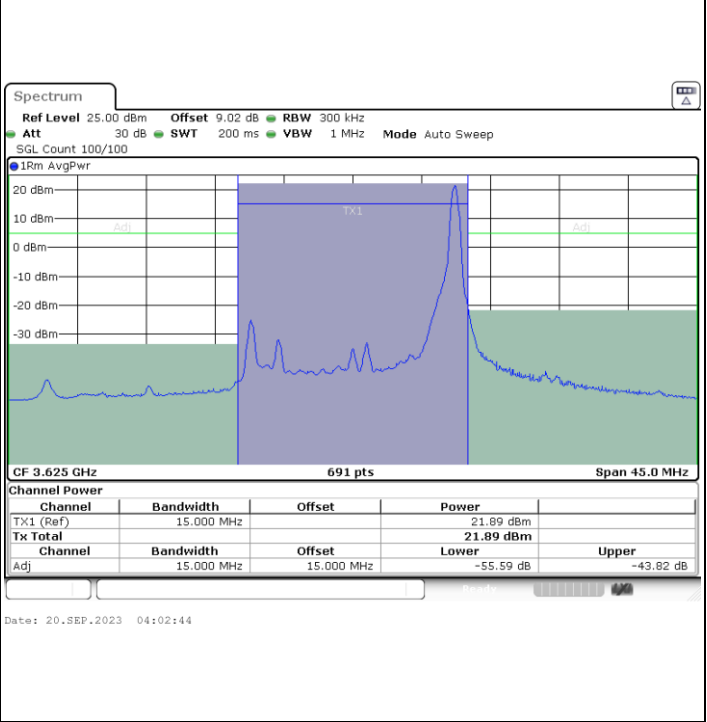
LTE Band 48 / 15MHz

16QAM

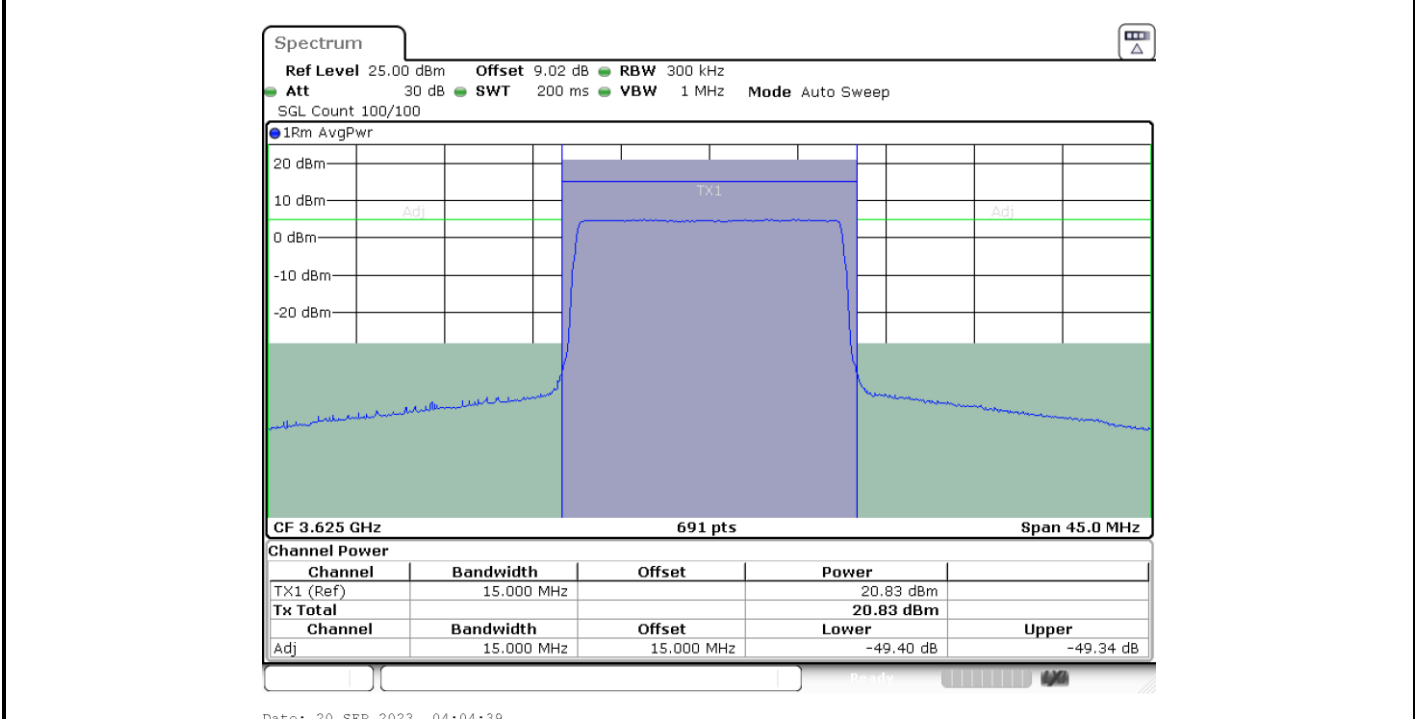
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



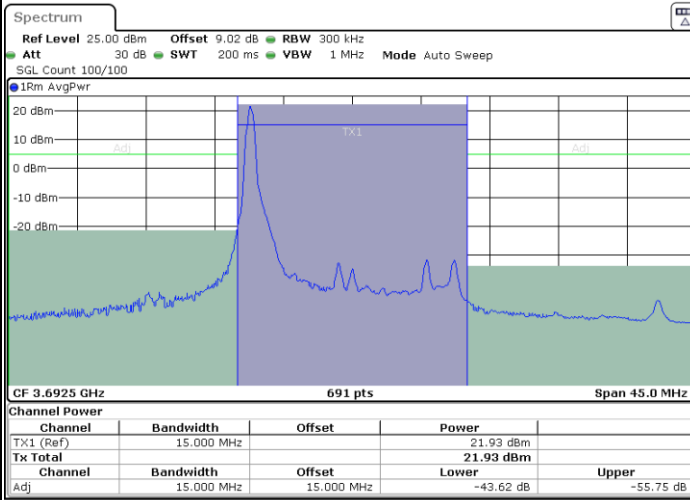


LTE Band 48 / 15MHz

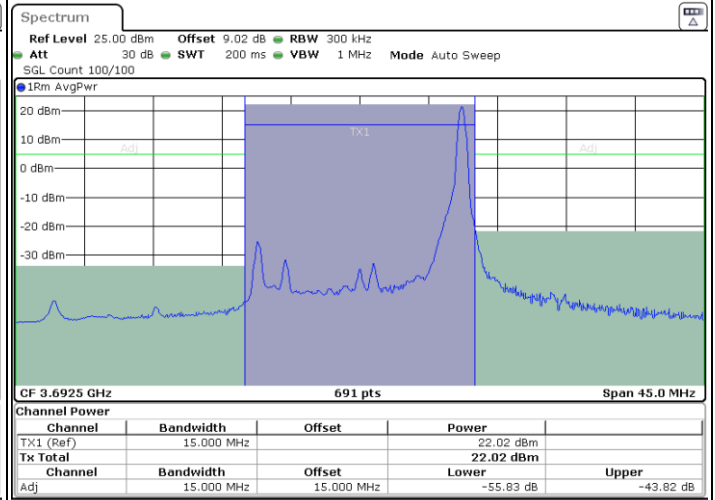
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

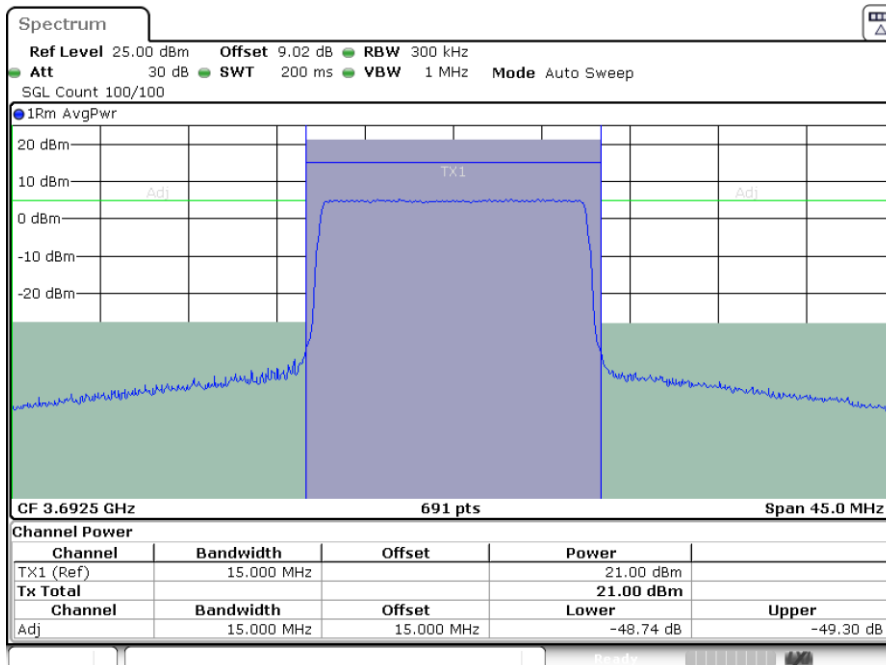


Date: 20.SEP.2023 04:06:34



Date: 20.SEP.2023 04:08:30

Highest Channel / Full RB



Date: 20.SEP.2023 04:10:27

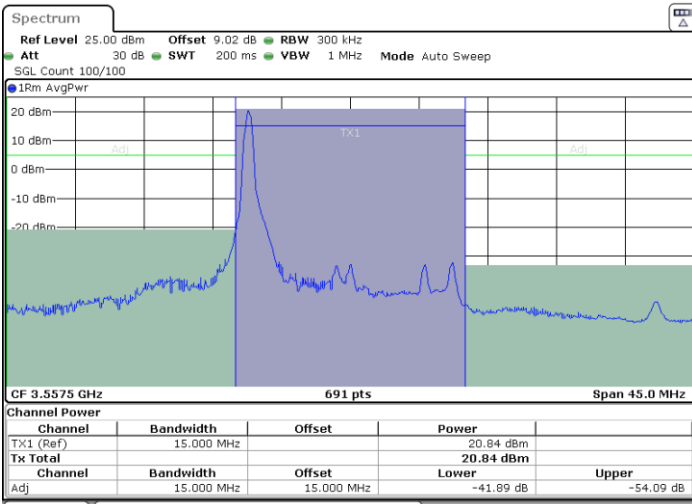


LTE Band 48 / 15MHz

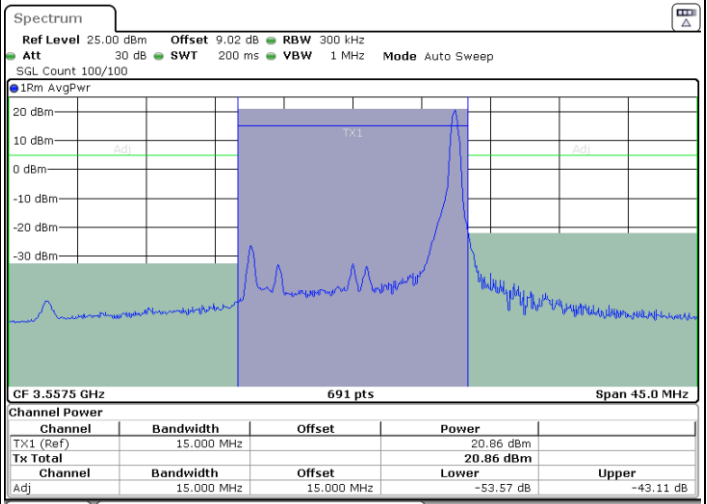
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

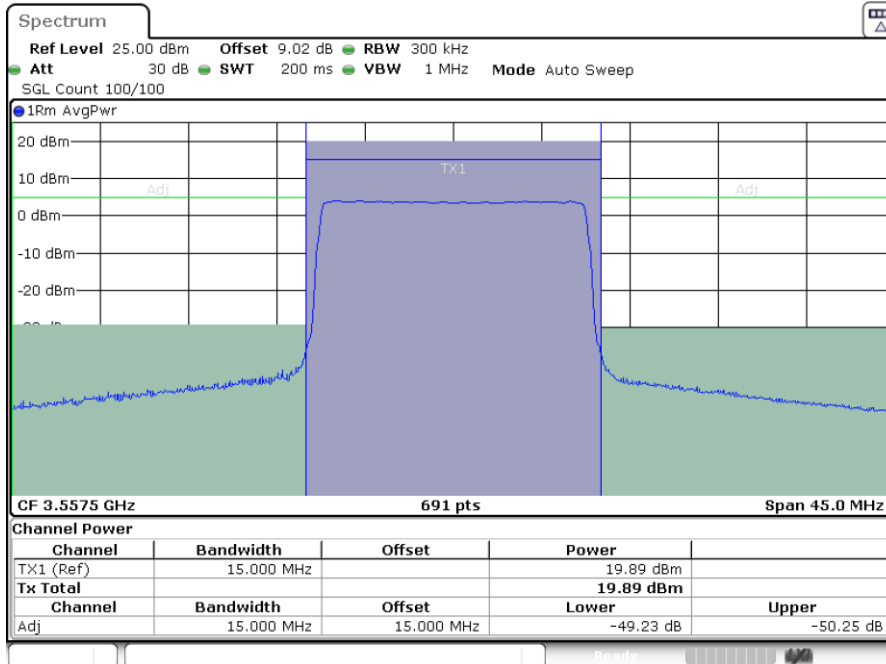


Date: 20_SEP_2023 03:55:41



Date: 20_SEP_2023 03:57:37

Lowest Channel / Full RB



Date: 20_SEP_2023 03:59:33

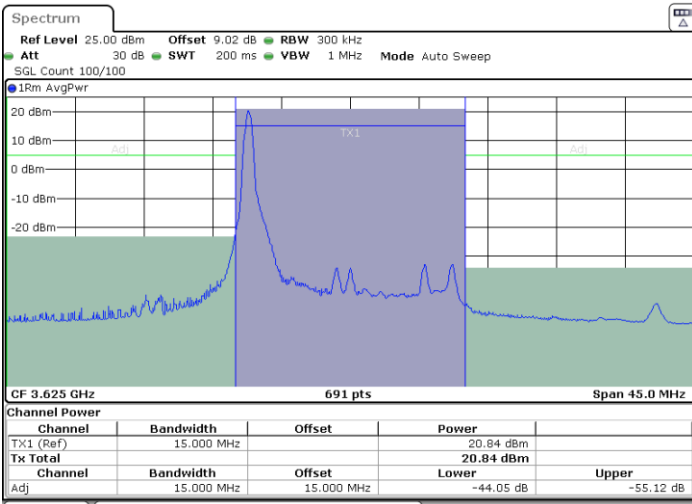


LTE Band 48 / 15MHz

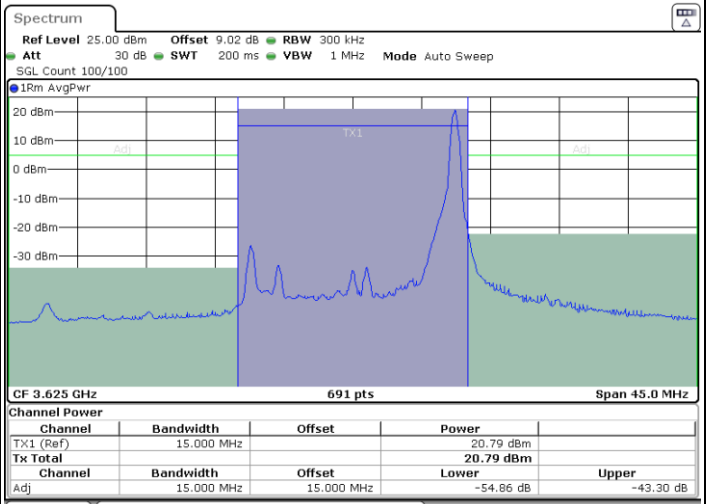
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

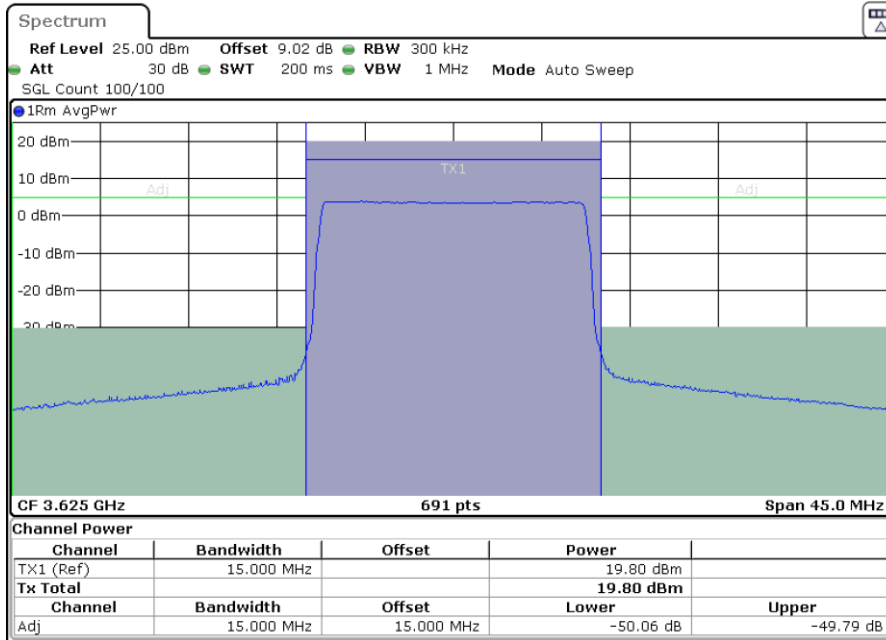


Date: 20_SEP_2023 04:01:28



Date: 20_SEP_2023 04:03:23

Middle Channel / Full RB



Date: 20_SEP_2023 04:05:17

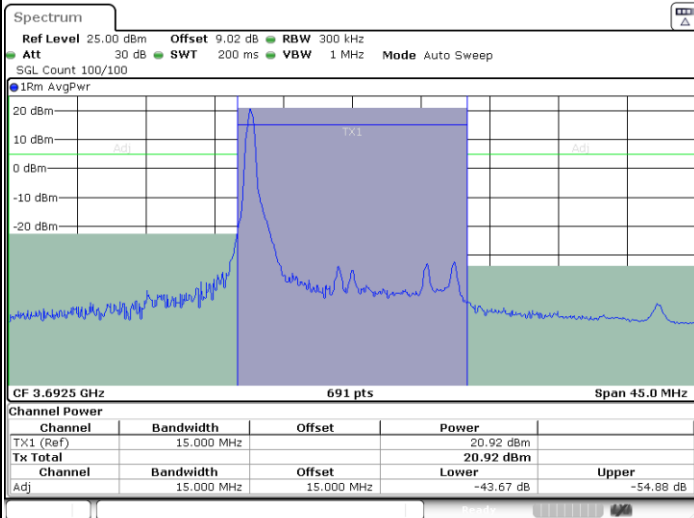


LTE Band 48 / 15MHz

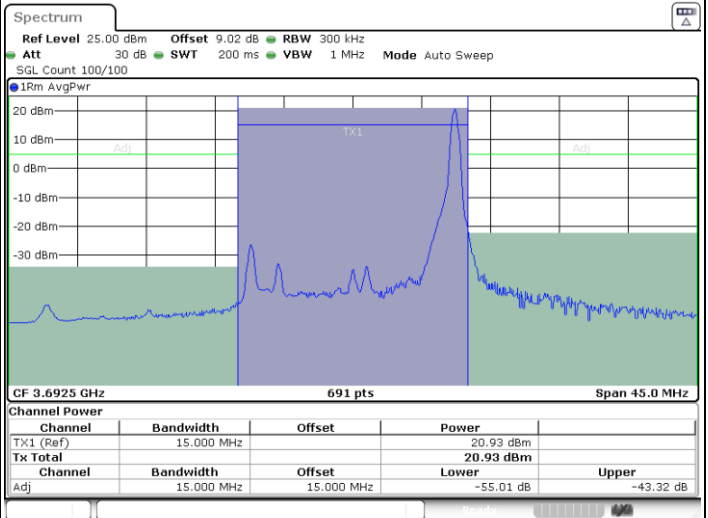
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

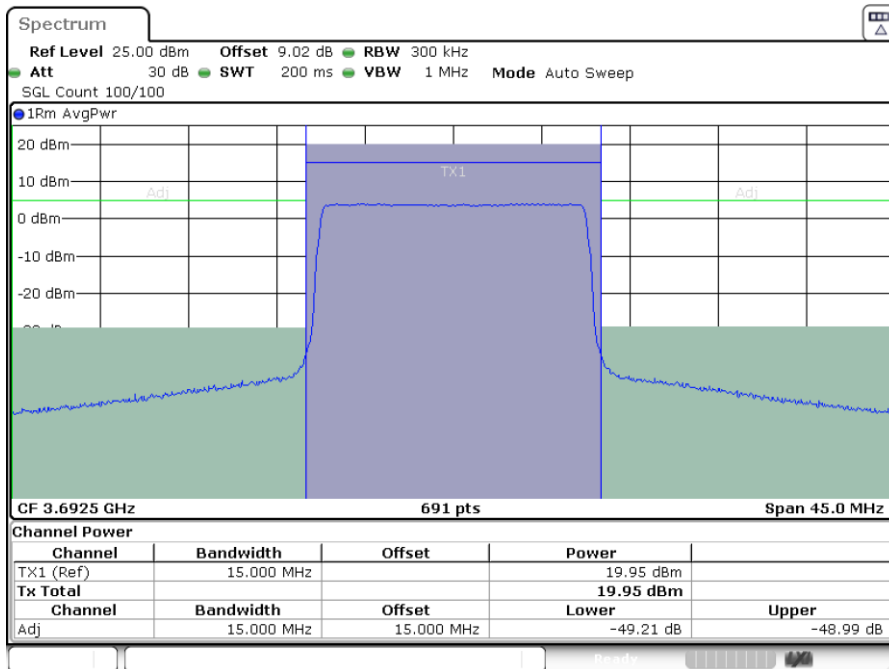


Date: 20.SEP.2023 04:07:13



Date: 20.SEP.2023 04:09:09

Highest Channel / Full RB



Date: 20.SEP.2023 04:11:06

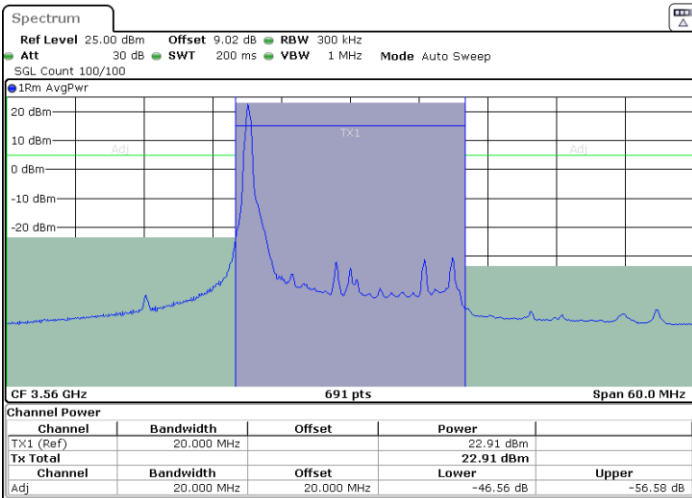


LTE Band 48 / 20MHz

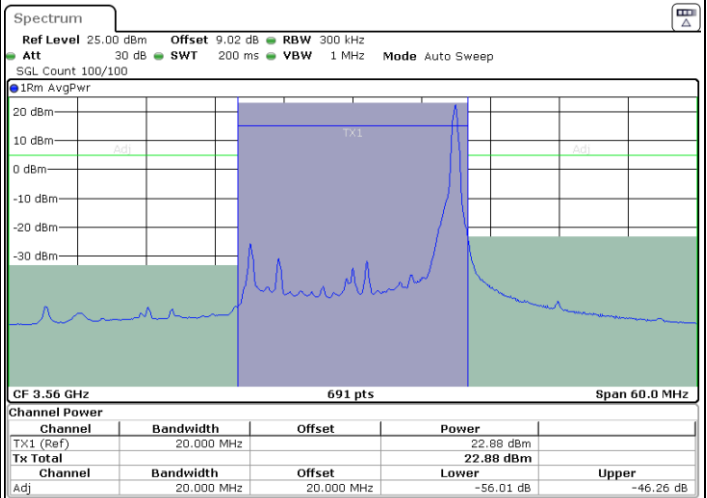
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

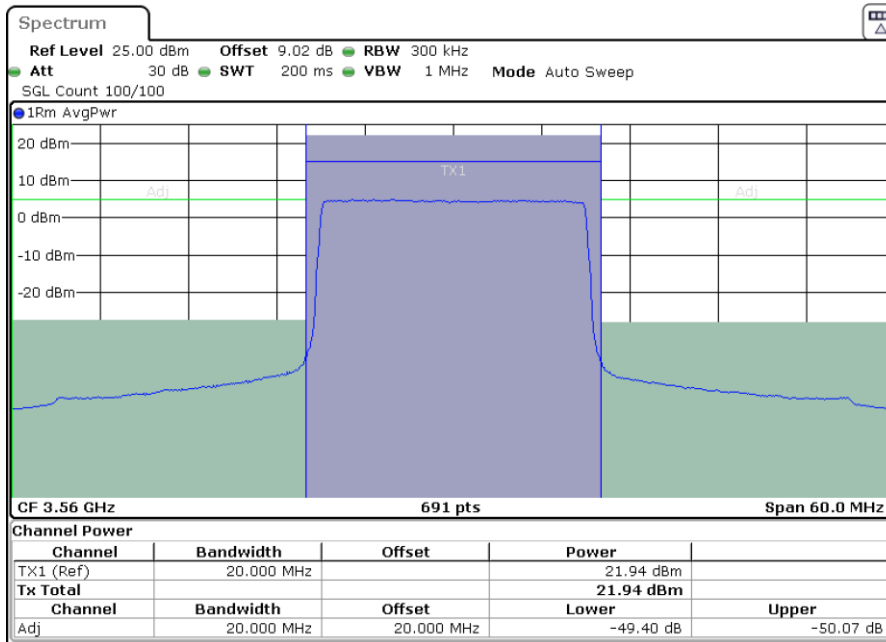


Date: 20.SEP.2023 04:11:45



Date: 20.SEP.2023 04:13:41

Lowest Channel / Full RB



Date: 20.SEP.2023 04:15:37