



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2417-1, XT2417-2, XT2417-4, XT2417D
FCC ID : IHDT56AQ3
STANDARD : 47 CFR Part 2, 96
CLASSIFICATION : Citizens Band End User Devices (CBE)
EQUIPMENT TYPE : End User Equipment
TEST DATE(S) : Oct. 26, 2023 ~ Nov. 23, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26 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
FG3O1303G	01	Initial issue of report	Nov. 30, 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 3.05 dB at 11048.00 MHz

Conformity Assessment Condition:

1. 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.
2. 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	XT2417-1, XT2417-2, XT2417-4, XT2417D
FCC ID	IHDT56AQ3
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: 22.58 dBm LTE Band 48C: 22.92 dBm
Antenna Gain	<Ant. 5>: -2.4 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM
IMEI Code	Conducted : 354581940048052/354581940048060 Radiation : 356125200041676/356125200041684
HW Version	DVT2
SW Version	U1UFN34.35
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/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	3552.5~3697.5	0.1030	4M49G7D	0.0851	4M50W7D
10	3555~3695	0.1035	8M99G7D	0.0853	9M03W7D
15	3557.5~3692.5	0.1023	13M5G7D	0.0824	13M5W7D
20	3560~3690	0.1042	17M9G7D	0.0861	17M8W7D

LTE Band 48C_CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5MHz+20MHz	(3553.5 ~ 3690 MHz)	0.1074	23M2G7D	0.1125	23M2W7D
10MHz+20MHz	(3555.5 ~ 3690 MHz)	0.1069	28M0G7D	0.1109	27M9W7D
15MHz+20MHz	(3557.8 ~ 3690 MHz)	0.1062	32M8G7D	0.1114	32M7W7D
20MHz+5MHz	(3560 ~ 3696.7 MHz)	0.1042	23M2G7D	0.1091	23M3W7D
20MHz+10MHz	(3560 ~ 3694.5 MHz)	0.1042	28M1G7D	0.1091	28M1W7D
20MHz+15MHz	(3560 ~ 3692.2 MHz)	0.1012	32M9G7D	0.1079	32M8W7D
20MHz+20MHz	(3560 ~ 3690 MHz)	0.1079	37M7G7D	0.1127	37M6W7D

Note: All modulations have been tested, and 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 03CH04-KS 03CH06-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH04-KS	AUDIX	E3	210616
3.	03CH06-KS	AUDIX	E3	210616

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

Specification of Accessory				
AC Adapter 1	Brand Name	Motorola(AOHAI)	Model Name	MC-101
AC Adapter 2	Brand Name	Motorola (Salcomp)	Model Name	MC-101
AC Adapter 3	Brand Name	Motorola(Chenyang)	Model Name	MC-101
Battery 1	Brand Name	Motorola (ATL)	Model Name	QF50
Battery 2	Brand Name	Motorola (Sunwoda)	Model Name	QF50
USB Cable 1	Brand Name	HE XIN	Model Name	HX-HQ-05
USB Cable 2	Brand Name	SAI BAO	Model Name	SHQ-A174
Earphone	Brand Name	Newleader	Model Name	EM313A-19SF



2 Test Configuration of Equipment Under Test

2.1 Test Mode

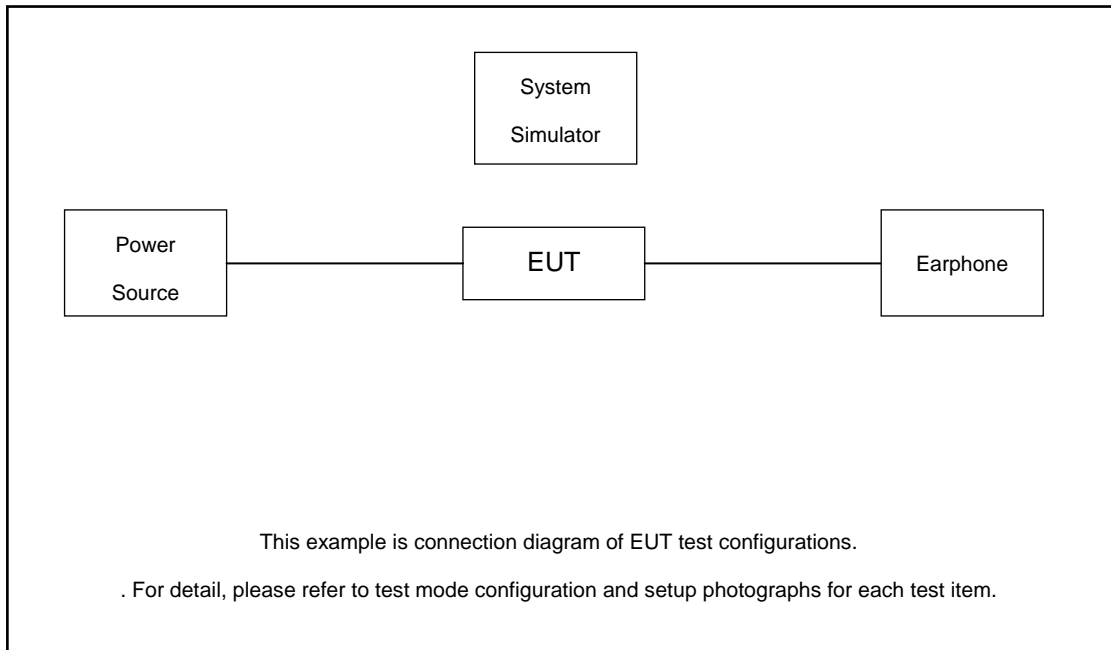
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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	v
Adjacent Channel Leakage Ratio	48	-	-	v	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	v
Conducted Spurious Emission	48	-	-	v	v	v	v	v					v		v	v	v
E.I.R.P	48	-	-	v	v	v	v	v	v	v	v	v		v	v	v	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.																

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	
26dB and 99% Bandwidth	48C	v	v	v	v	v	-	v	v	v	v					v		v	
Conducted Band Edge	48C	v	v	v	v	v	-	v	v	v	v	v	v	v		v	v	v	
Conducted Spurious Emission	48C	v	v	v	v	v	-	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	
E.I.R.P.	48C	v	v	v	v	v	-	v	v	v	v	v	v	v		v	v	v	
Frequency Stability	48C	v					-			v				v				v	
Radiated Spurious Emission	48C	Worst Case														v	v	v	
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																		

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

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.

$Offset = RF\ cable\ loss.$

Following shows an offset computation example with cable loss 8.92 dB.

Example :

$$\begin{aligned} Offset(dB) &= RF\ cable\ loss(dB). \\ &= 8.92\ (dB) \end{aligned}$$

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 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



LTE Band 48C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
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

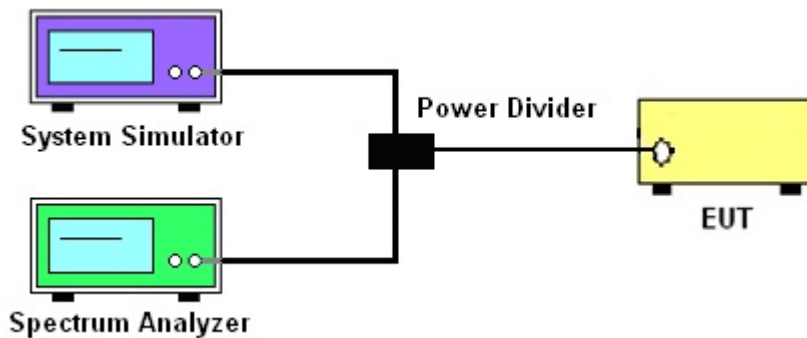
See list of measuring instruments of this test report.

3.2 Test Setup

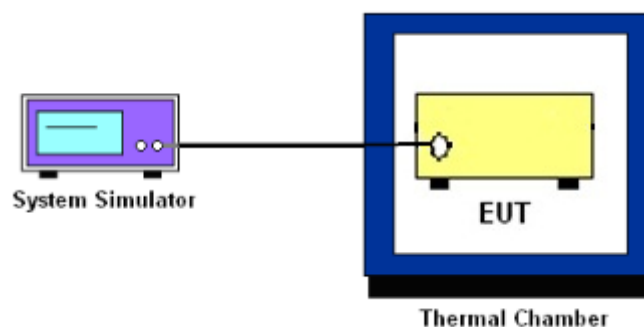
3.2.1 Conducted Output Power / ACLR



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.

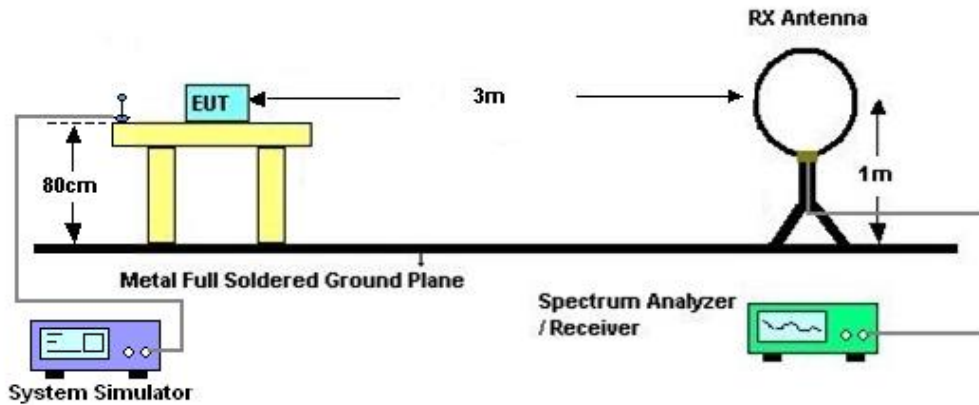
4 Radiated Test Items

4.1 Measuring Instruments

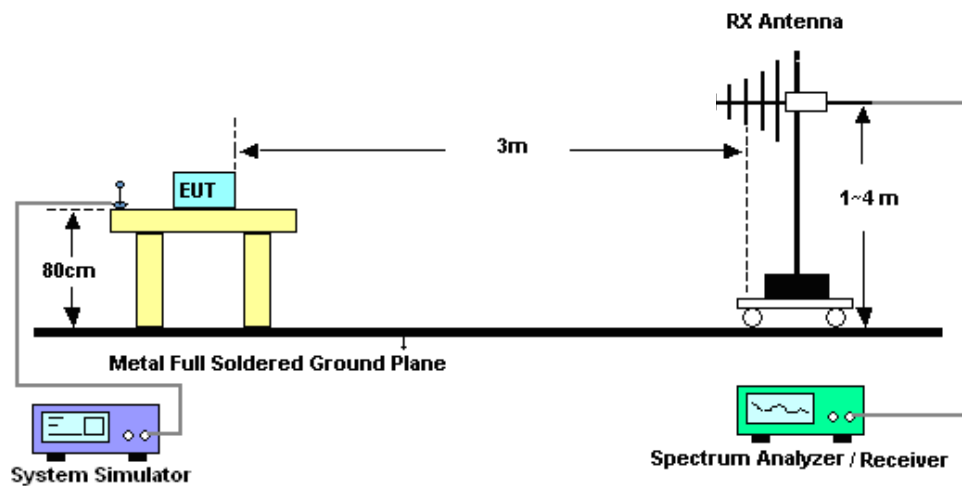
See list of measuring instruments of this test report.

4.2 Test Setup

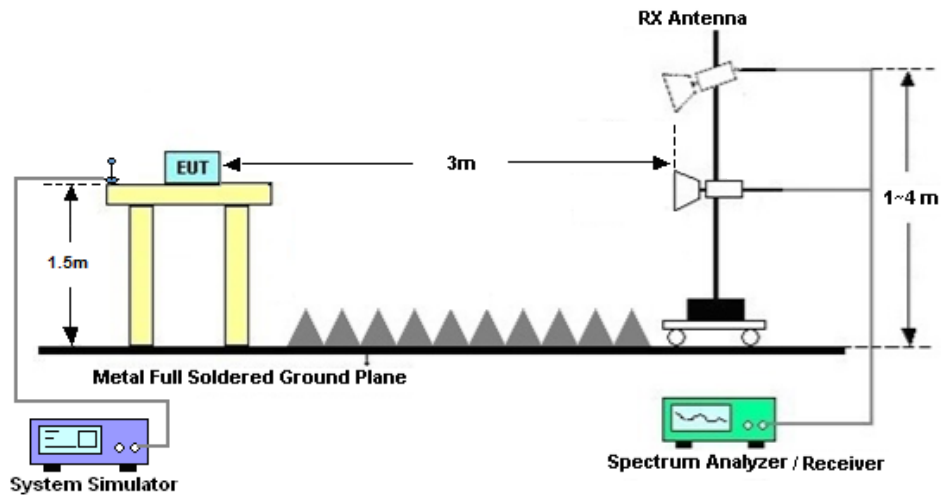
4.2.1 For radiated test below 30MHz



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. 11, 2023	Oct. 26, 2023~Nov. 15, 2023	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Oct. 26, 2023~Nov. 15, 2023	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Oct. 26, 2023~Nov. 15, 2023	Jul. 05, 2024	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz~44G,MAX 30dB	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Nov. 23, 2023	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Nov. 23, 2023	Apr. 08, 2024	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Nov. 23, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Nov. 23, 2023	Jul. 05, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2023	Nov. 23, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 23, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 23, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 23, 2023	NCR	Radiation (03CH04-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz-44GHz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	Apr. 09, 2023	Nov. 23, 2023	Apr. 08, 2024	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 06, 2023	Nov. 23, 2023	Apr. 05, 2024	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 08, 2023	Nov. 23, 2023	Jan. 07, 2024	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 06, 2023	Nov. 23, 2023	Jul. 05, 2024	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2023	Nov. 23, 2023	Jan. 04, 2024	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2082395	1Ghz-18Ghz	Jan. 05, 2023	Nov. 23, 2023	Jan. 04, 2024	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 23, 2023	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 23, 2023	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 23, 2023	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required



6 Measurement Uncertainty

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Band edge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
ACLR	±0.46 dB
Peak to Average Ratio	±0.46 dB
Frequency Stability	±0.4 ppm

03CH04-KS

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.82dB
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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))	3.56dB
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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))	3.54dB
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03CH06-KS

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.8dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.5dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.5dB
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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 Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				55340	55990	56640			
Frequency (MHz)				3560	3625	3690	L	M	H
20	QPSK	1	0	22.58	22.33	22.47	0.1042	0.0984	0.1016
20	QPSK	1	99	22.53	22.25	22.42	0.1030	0.0966	0.1005
20	QPSK	100	0	21.68	21.24	21.52	0.0847	0.0766	0.0817
20	16QAM	1	0	21.75	21.11	21.32	0.0861	0.0743	0.0780
20	64QAM	1	0	20.24	19.79	19.95	0.0608	0.0548	0.0569
20	256QAM	1	0	17.25	17.18	17.27	0.0305	0.0301	0.0307
Channel				55315	55990	56665	EIRP(W)		
Frequency (MHz)				3557.5	3625	3692.5	L	M	H
15	QPSK	1	0	22.50	22.16	22.33	0.1023	0.0946	0.0984
15	16QAM	1	0	21.56	21.22	21.40	0.0824	0.0762	0.0794
Channel				55290	55990	56690	EIRP(W)		
Frequency (MHz)				3555	3625	3695	L	M	H
10	QPSK	1	0	22.55	22.33	22.50	0.1035	0.0984	0.1023
10	16QAM	1	0	21.71	21.43	21.67	0.0853	0.0800	0.0845
Channel				55265	55990	56715	EIRP(W)		
Frequency (MHz)				3552.5	3625	3697.5	L	M	H
5	QPSK	1	0	22.51	22.35	22.53	0.1026	0.0989	0.1030
5	16QAM	1	0	21.69	21.47	21.70	0.0849	0.0807	0.0851



LTE Band CA_48C_Ant 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	EIRP (W)		
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	L	M	H
Channel				L	M	H	L	M	H
20+20	QPSK	1RB01RBMAX		-2.98	-3.14	-3.39	0.0003	0.0003	0.0003
	QPSK	1RBMAX1RB0		22.73	22.62	22.46	0.1079	0.1052	0.1014
	QPSK	FULL		17.06	17.15	16.97	0.0292	0.0299	0.0286
	16QAM	1RB01RBMAX		-3.89	-4.05	-4.27	0.0002	0.0002	0.0002
	16QAM	1RBMAX1RB0		22.61	22.92	22.58	0.1050	0.1127	0.1042
	16QAM	FULL		16.08	16.16	16.03	0.0233	0.0238	0.0231
	64QAM	1RB01RBMAX		-4.21	-4.38	-4.60	0.0002	0.0002	0.0002
	64QAM	1RBMAX1RB0		21.15	21.34	21.09	0.0750	0.0783	0.0740
	64QAM	FULL		15.10	15.18	14.99	0.0186	0.0190	0.0182
	256QAM	1RB01RBMAX		-3.98	-4.24	-4.44	0.0002	0.0002	0.0002
256QAM	1RBMAX1RB0		18.36	18.53	18.29	0.0394	0.0410	0.0388	
256QAM	FULL		14.11	14.17	13.96	0.0148	0.0150	0.0143	
20+15	QPSK	1RB01RBMAX		-2.92	-3.34	-3.23	0.0003	0.0003	0.0003
	QPSK	1RBMAX1RB0		22.41	22.45	22.39	0.1002	0.1012	0.0998
	QPSK	FULL		17.08	17.12	17.08	0.0294	0.0296	0.0294
	16QAM	1RB01RBMAX		-3.73	-4.25	-4.29	0.0002	0.0002	0.0002
	16QAM	1RBMAX1RB0		22.45	22.73	22.49	0.1012	0.1079	0.1021
	16QAM	FULL		16.08	16.09	16.12	0.0233	0.0234	0.0236
	64QAM	1RB01RBMAX		-4.02	-4.60	-4.59	0.0002	0.0002	0.0002
	64QAM	1RBMAX1RB0		21.15	21.35	21.24	0.0750	0.0785	0.0766
	64QAM	FULL		15.14	15.11	15.10	0.0188	0.0187	0.0186
	256QAM	1RB01RBMAX		-3.83	-4.39	-4.40	0.0002	0.0002	0.0002
256QAM	1RBMAX1RB0		18.40	18.43	18.39	0.0398	0.0401	0.0397	
256QAM	FULL		14.12	14.16	14.06	0.0149	0.0150	0.0147	
20+10	QPSK	1RB01RBMAX		-2.89	-3.21	-3.28	0.0003	0.0003	0.0003
	QPSK	1RBMAX1RB0		22.41	22.58	22.55	0.1002	0.1042	0.1035
	QPSK	FULL		17.16	17.17	17.20	0.0299	0.0300	0.0302
	16QAM	1RB01RBMAX		-3.78	-4.19	-4.17	0.0002	0.0002	0.0002
	16QAM	1RBMAX1RB0		22.52	22.78	22.74	0.1028	0.1091	0.1081
	16QAM	FULL		16.18	16.25	16.23	0.0239	0.0243	0.0242
	64QAM	1RB01RBMAX		-4.10	-4.43	-4.46	0.0002	0.0002	0.0002
	64QAM	1RBMAX1RB0		21.26	21.40	21.44	0.0769	0.0794	0.0802
	64QAM	FULL		15.25	15.26	15.23	0.0193	0.0193	0.0192
	256QAM	1RB01RBMAX		-3.87	-4.23	-4.42	0.0002	0.0002	0.0002
256QAM	1RBMAX1RB0		18.44	18.56	18.51	0.0402	0.0413	0.0408	
256QAM	FULL		14.24	14.25	14.22	0.0153	0.0153	0.0152	
20+5	QPSK	1RB01RBMAX		-2.86	-3.23	-2.99	0.0003	0.0003	0.0003
	QPSK	1RBMAX1RB0		22.51	22.54	22.58	0.1026	0.1033	0.1042
	QPSK	FULL		17.21	17.20	17.15	0.0303	0.0302	0.0299
	16QAM	1RB01RBMAX		-3.75	-4.12	-3.86	0.0002	0.0002	0.0002
	16QAM	1RBMAX1RB0		22.75	22.78	22.70	0.1084	0.1091	0.1072
	16QAM	FULL		16.24	16.23	16.27	0.0242	0.0242	0.0244
	64QAM	1RB01RBMAX		-4.05	-4.34	-4.23	0.0002	0.0002	0.0002
	64QAM	1RBMAX1RB0		21.39	21.44	21.42	0.0793	0.0802	0.0798
	64QAM	FULL		15.23	15.20	15.19	0.0192	0.0191	0.0190
	256QAM	1RB01RBMAX		-3.88	-4.23	-4.27	0.0002	0.0002	0.0002
256QAM	1RBMAX1RB0		18.54	18.56	18.58	0.0411	0.0413	0.0415	
256QAM	FULL		14.24	14.18	14.22	0.0153	0.0151	0.0152	

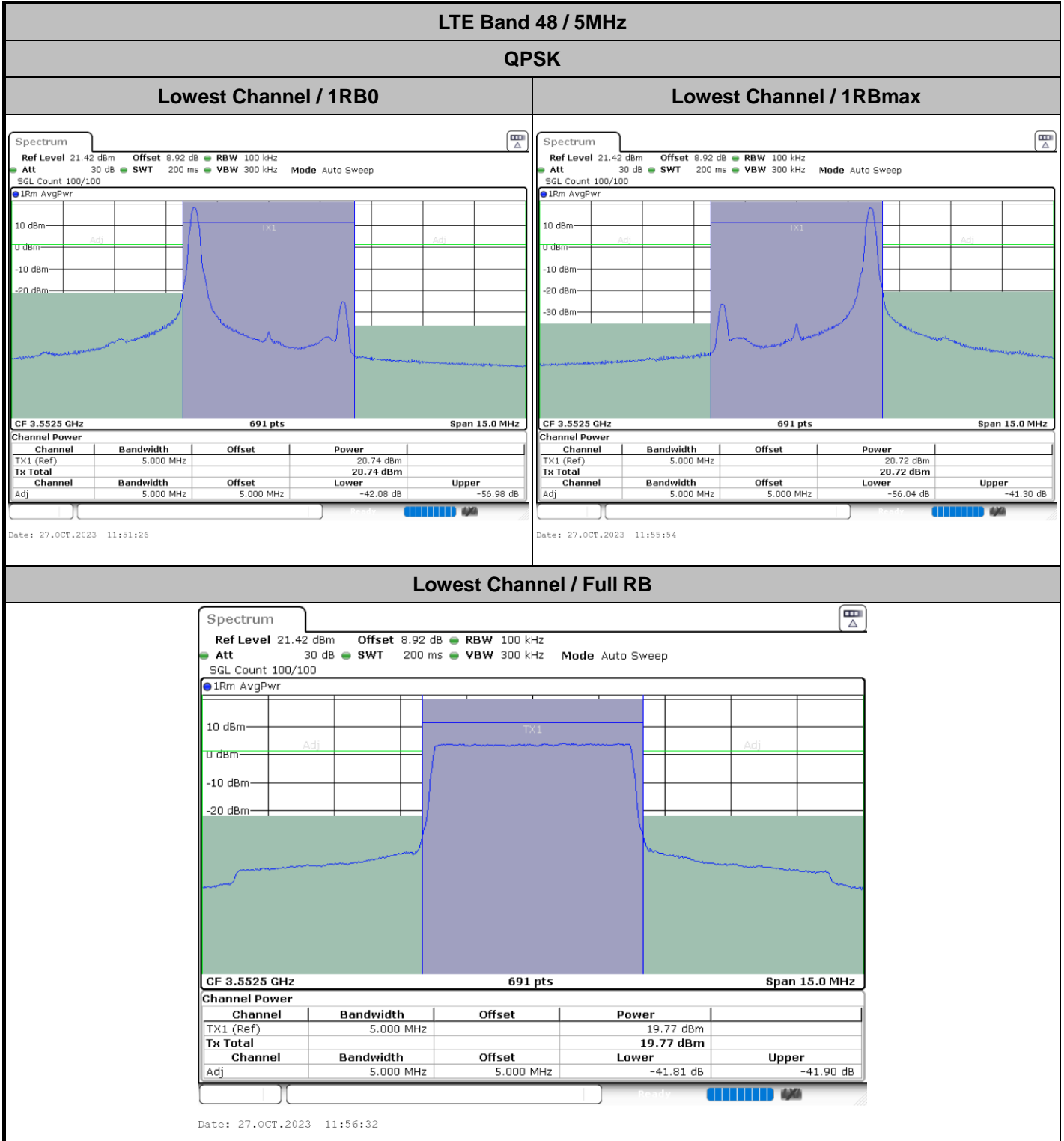


BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	EIRP (W)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
15+20	QPSK	1RB01RBMAX		-2.86	-3.23	-3.27	0.0003	0.0003	0.0003
	QPSK	1RBMAX1RB0		22.56	22.66	22.41	0.1038	0.1062	0.1002
	QPSK	FULL		17.27	17.26	17.06	0.0307	0.0306	0.0292
	16QAM	1RB01RBMAX		-3.71	-4.18	-4.28	0.0002	0.0002	0.0002
	16QAM	1RBMAX1RB0		22.81	22.87	22.59	0.1099	0.1114	0.1045
	16QAM	FULL		16.27	16.23	16.09	0.0244	0.0242	0.0234
	64QAM	1RB01RBMAX		-4.10	-4.38	-4.56	0.0002	0.0002	0.0002
	64QAM	1RBMAX1RB0		21.44	21.53	21.28	0.0802	0.0818	0.0773
	64QAM	FULL		15.25	15.23	15.08	0.0193	0.0192	0.0185
	256QAM	1RB01RBMAX		-3.88	-4.30	-4.37	0.0002	0.0002	0.0002
	256QAM	1RBMAX1RB0		18.58	18.71	18.41	0.0415	0.0428	0.0399
	256QAM	FULL		14.26	14.21	14.06	0.0153	0.0152	0.0147
10+20	QPSK	1RB01RBMAX		-2.77	-3.21	-3.15	0.0003	0.0003	0.0003
	QPSK	1RBMAX1RB0		22.69	22.65	22.43	0.1069	0.1059	0.1007
	QPSK	FULL		16.85	16.78	16.59	0.0279	0.0274	0.0262
	16QAM	1RB01RBMAX		-3.68	-4.11	-4.33	0.0002	0.0002	0.0002
	16QAM	1RBMAX1RB0		22.85	22.84	22.63	0.1109	0.1107	0.1054
	16QAM	FULL		16.35	16.27	16.11	0.0248	0.0244	0.0235
	64QAM	1RB01RBMAX		-4.02	-4.43	-4.47	0.0002	0.0002	0.0002
	64QAM	1RBMAX1RB0		21.52	21.55	21.25	0.0817	0.0822	0.0767
	64QAM	FULL		15.39	15.29	15.15	0.0199	0.0195	0.0188
	256QAM	1RB01RBMAX		-3.86	-4.27	-4.33	0.0002	0.0002	0.0002
	256QAM	1RBMAX1RB0		18.68	18.71	18.47	0.0425	0.0428	0.0405
	256QAM	FULL		14.39	14.28	14.13	0.0158	0.0154	0.0149
5+20	QPSK	1RB01RBMAX		-2.73	-3.25	-3.33	0.0003	0.0003	0.0003
	QPSK	1RBMAX1RB0		22.71	22.62	22.46	0.1074	0.1052	0.1014
	QPSK	FULL		17.38	17.28	17.15	0.0315	0.0308	0.0299
	16QAM	1RB01RBMAX		-3.62	-4.15	-4.22	0.0003	0.0002	0.0002
	16QAM	1RBMAX1RB0		22.91	22.76	22.64	0.1125	0.1086	0.1057
	16QAM	FULL		16.38	16.27	16.17	0.0250	0.0244	0.0238
	64QAM	1RB01RBMAX		-4.01	-4.46	-4.45	0.0002	0.0002	0.0002
	64QAM	1RBMAX1RB0		21.77	21.54	21.31	0.0865	0.0820	0.0778
	64QAM	FULL		15.39	15.26	15.13	0.0199	0.0193	0.0187
	256QAM	1RB01RBMAX		-3.81	-4.28	-4.47	0.0002	0.0002	0.0002
	256QAM	1RBMAX1RB0		18.84	18.72	18.49	0.0441	0.0429	0.0406
	256QAM	FULL		14.43	14.29	14.19	0.0160	0.0155	0.0151



LTE Band 48

ACLR



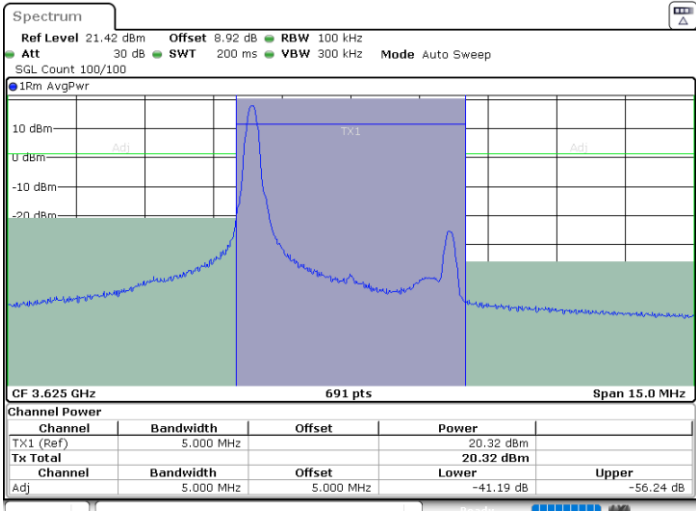


LTE Band 48 / 5MHz

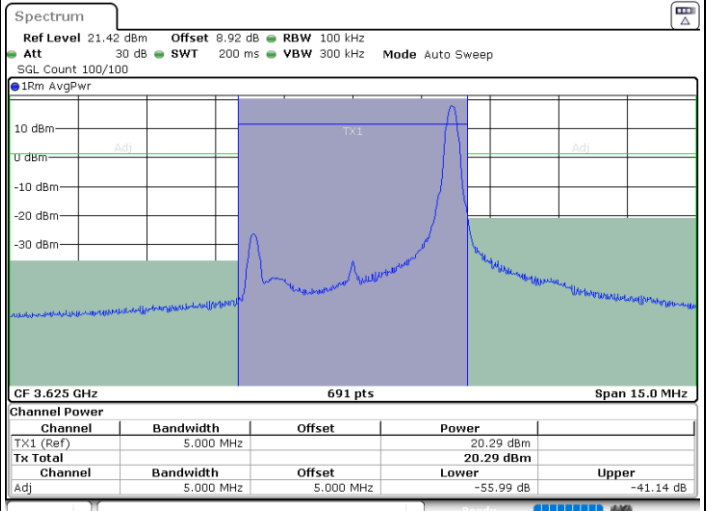
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Middle Channel / 1RB0

Middle Channel / 1RBmax

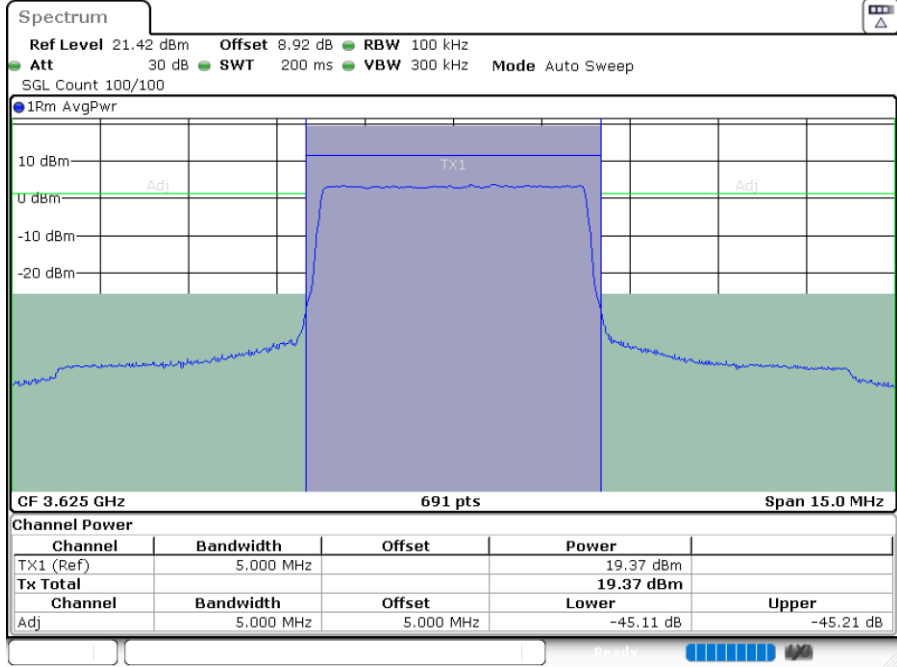


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Date: 27.OCT.2023 12:59:09

Middle Channel / Full RB



Date: 27.OCT.2023 12:59:46

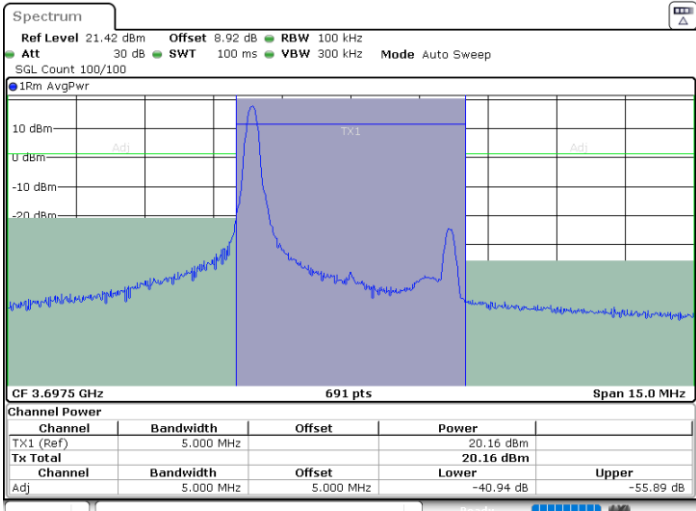


LTE Band 48 / 5MHz

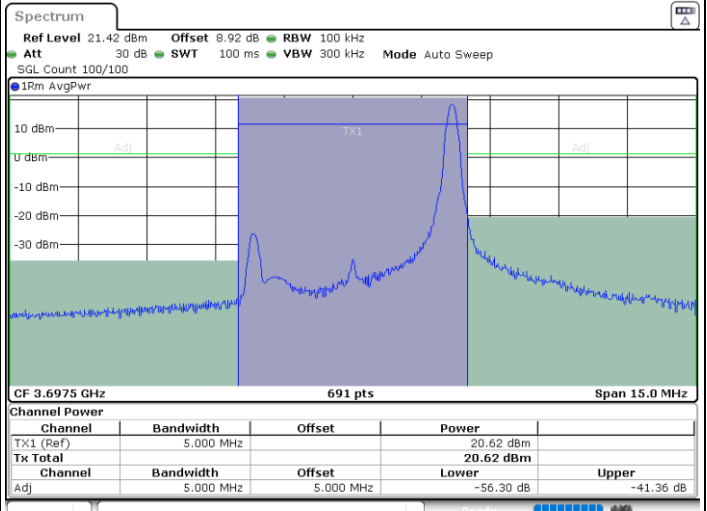
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Highest Channel / 1RB0

Highest Channel / 1RBmax

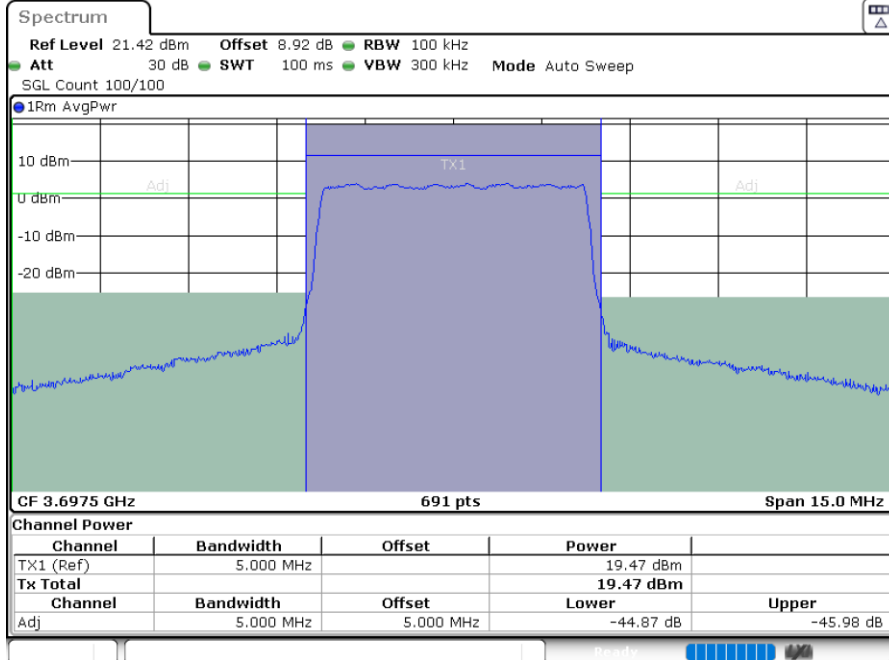


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Date: 27.OCT.2023 13:09:18

Highest Channel / Full RB



Date: 27.OCT.2023 13:09:54

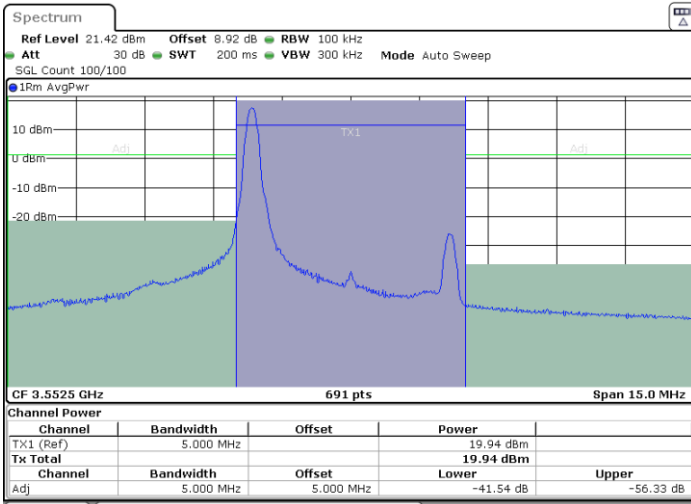


LTE Band 48 / 5MHz

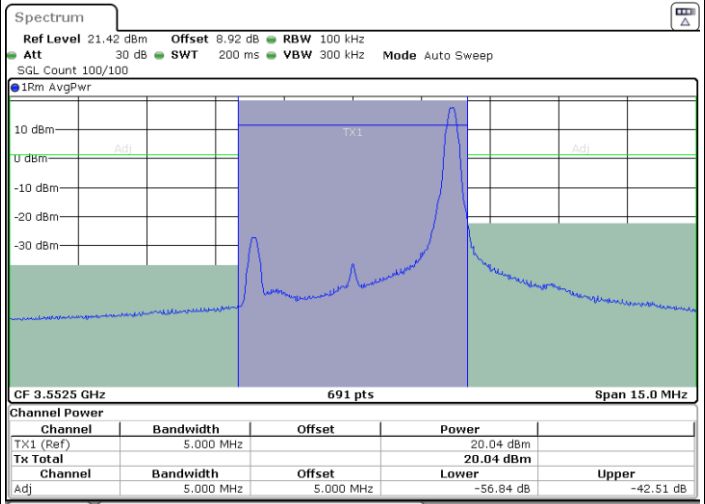
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

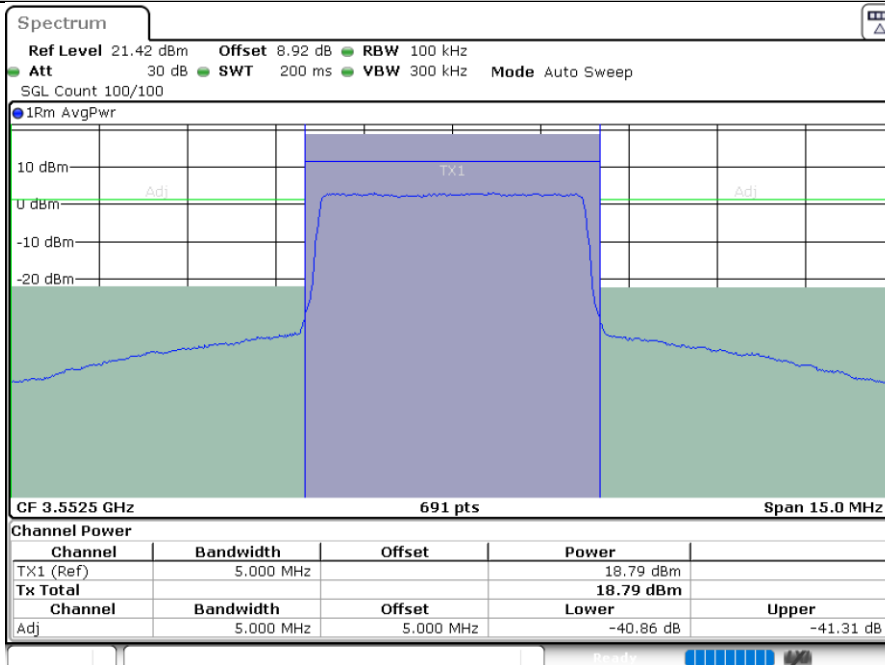


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Date: 27.OCT.2023 11:55:17

Lowest Channel / Full RB



Date: 27.OCT.2023 11:57:10

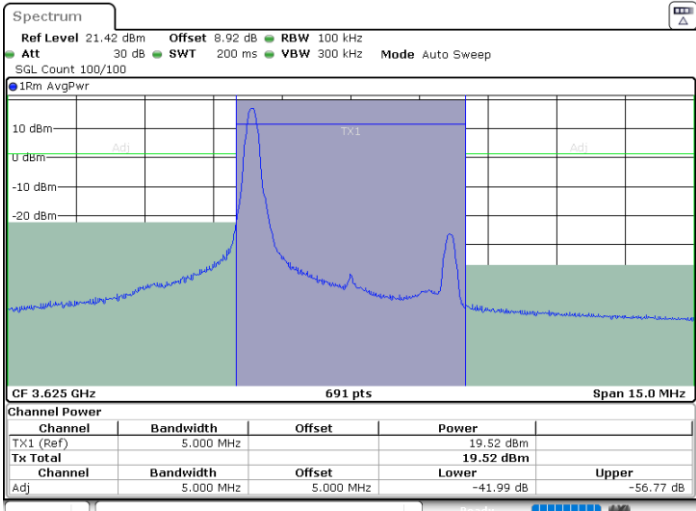


LTE Band 48 / 5MHz

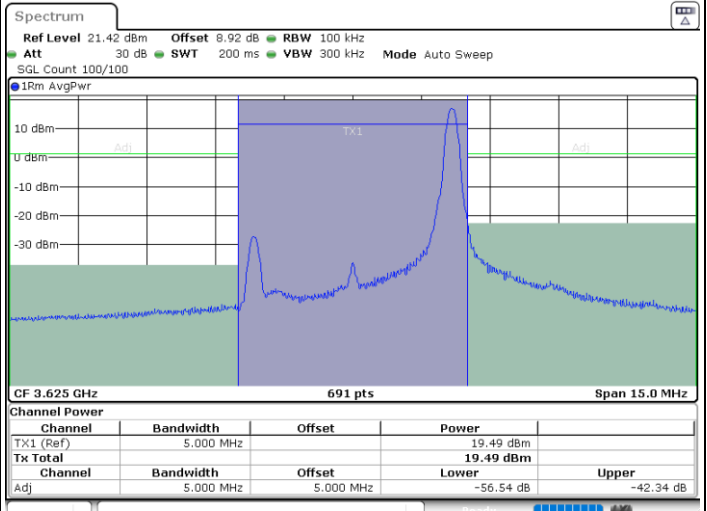
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

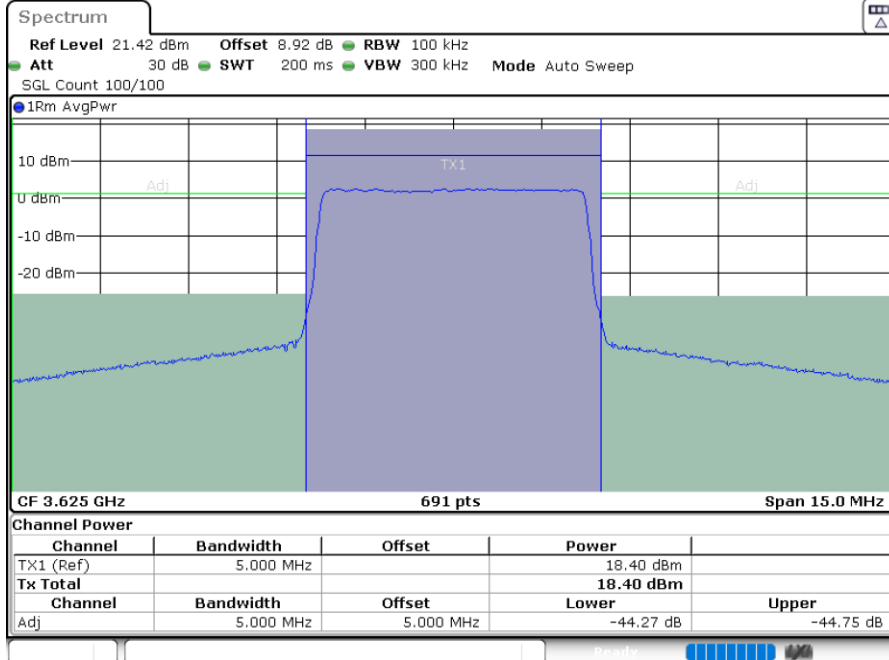


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Date: 27.OCT.2023 12:58:33

Middle Channel / Full RB



Date: 27.OCT.2023 13:00:22

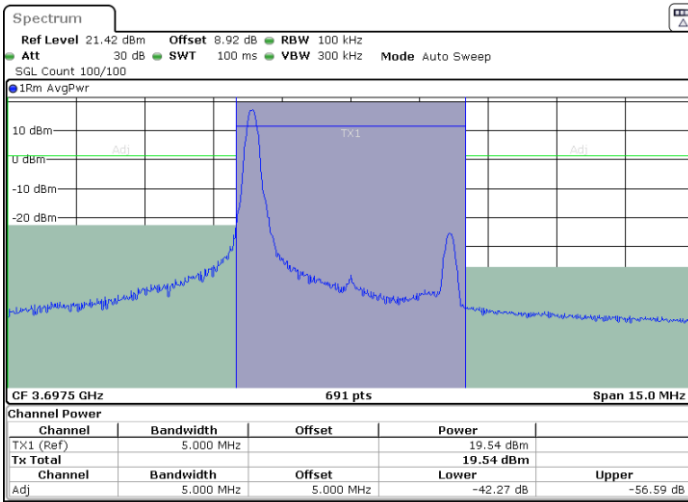


LTE Band 48 / 5MHz

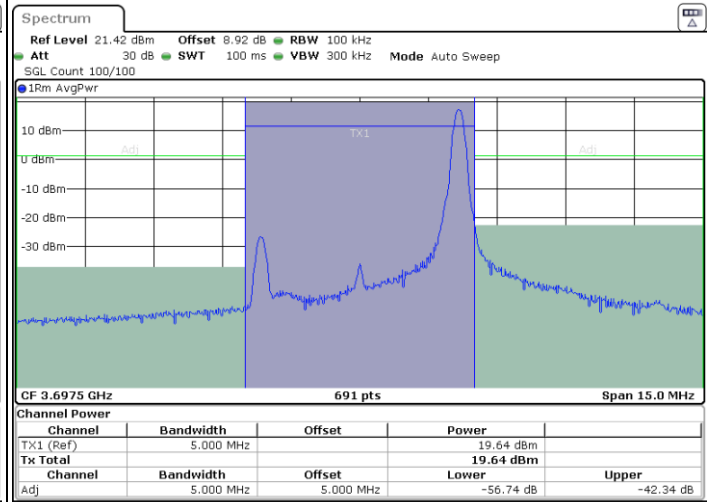
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

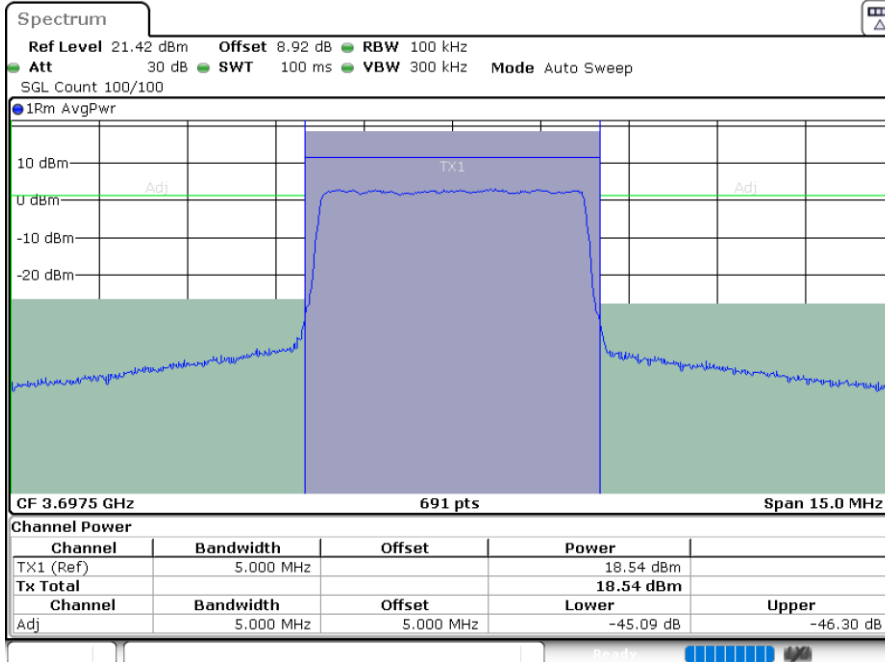


Date: 27.OCT.2023 13:05:35



Date: 27.OCT.2023 13:08:42

Highest Channel / Full RB



Date: 27.OCT.2023 13:10:30

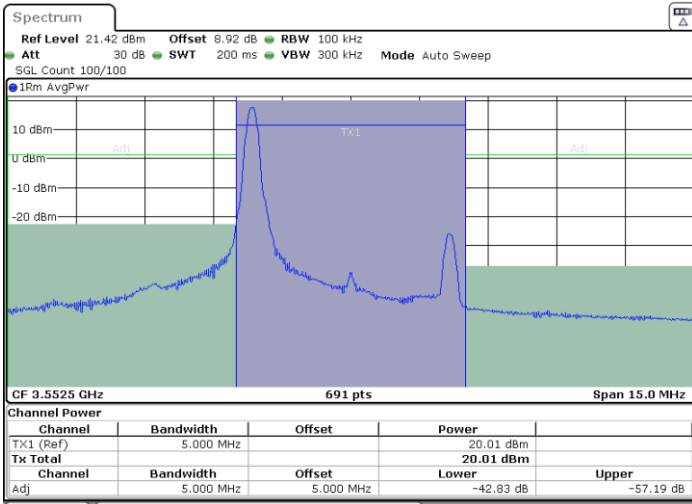


LTE Band 48 / 5MHz

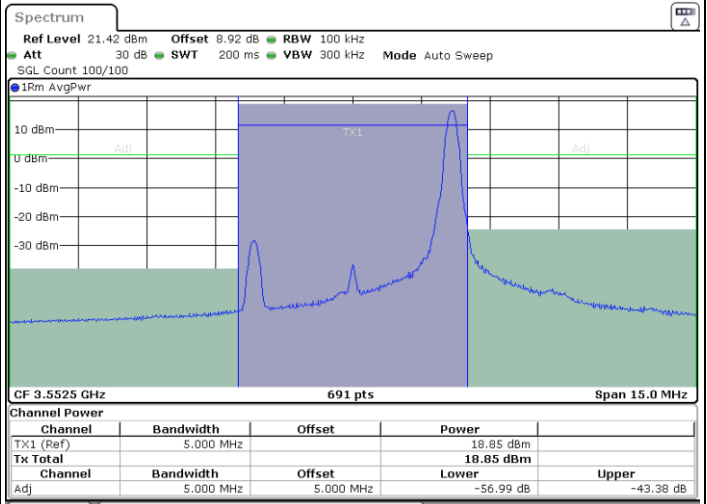
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

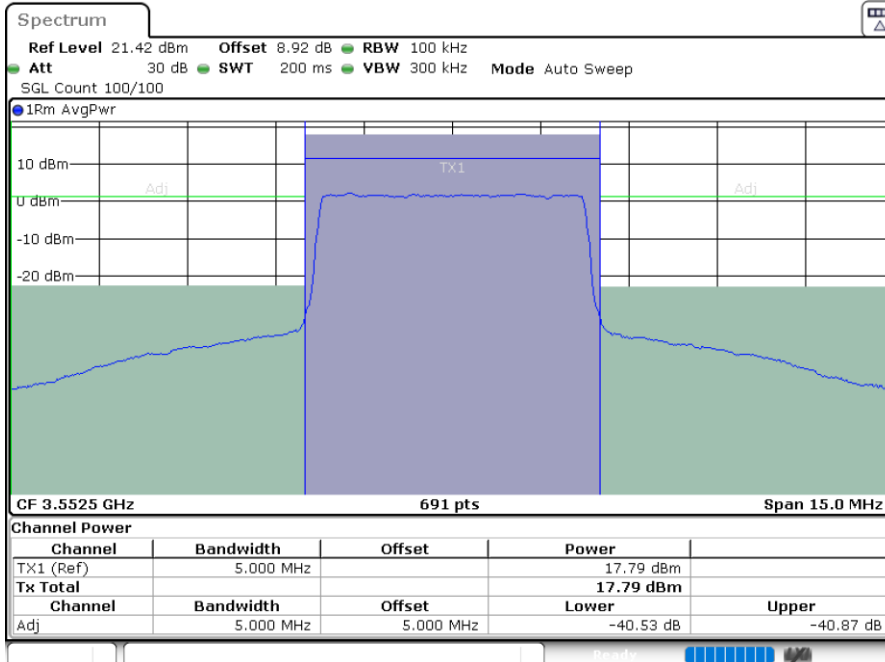


Date: 27.OCT.2023 11:52:41



Date: 27.OCT.2023 11:54:39

Lowest Channel / Full RB



Date: 27.OCT.2023 11:57:47

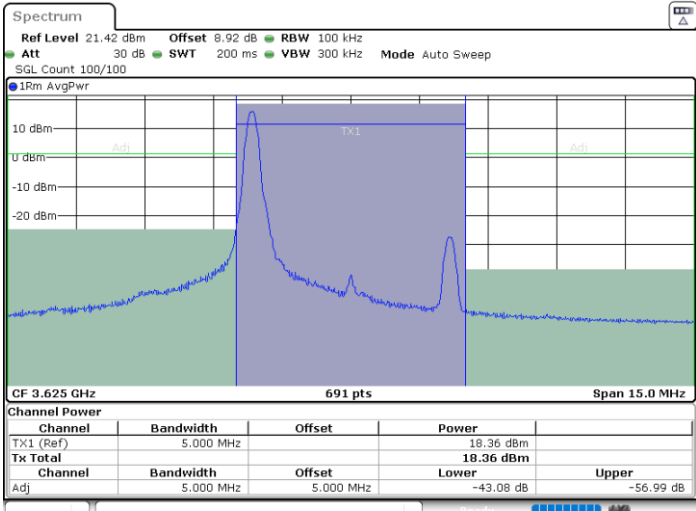


LTE Band 48 / 5MHz

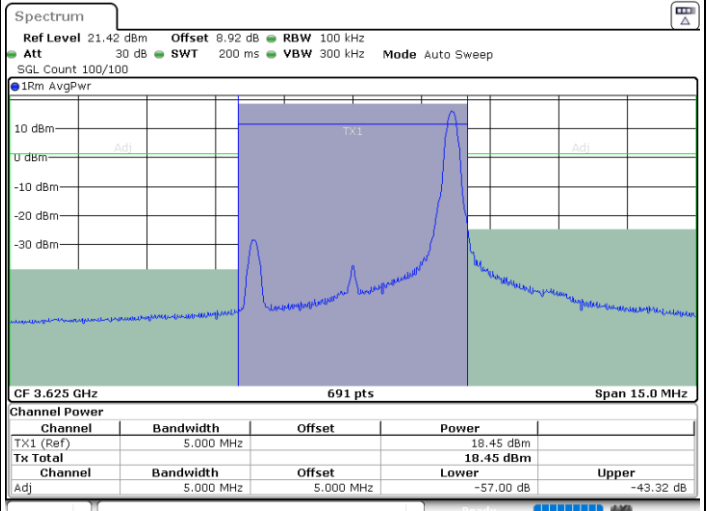
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

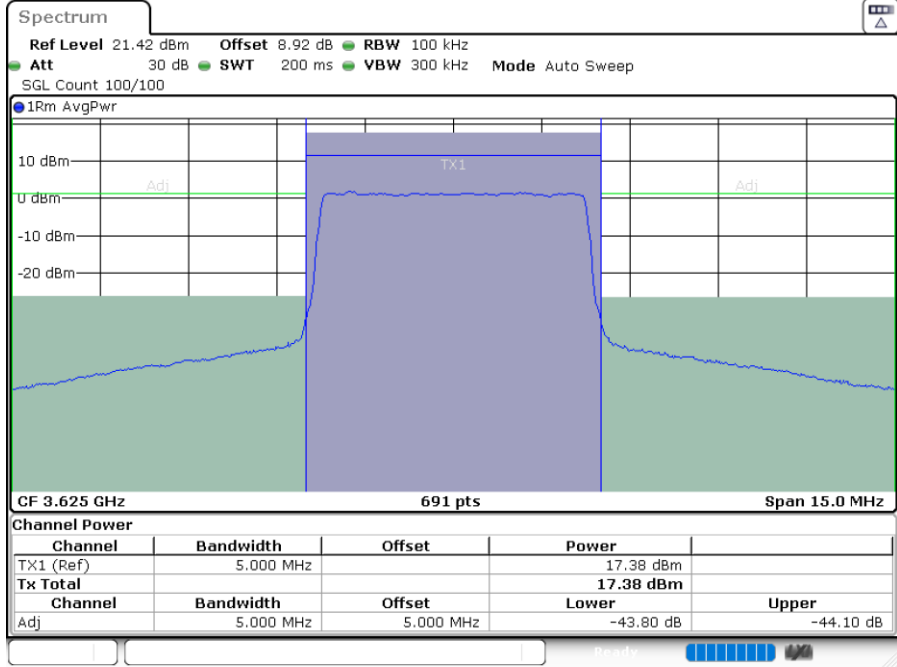


Date: 27.OCT.2023 12:56:07



Date: 27.OCT.2023 12:57:57

Middle Channel / Full RB



Date: 27.OCT.2023 13:00:58

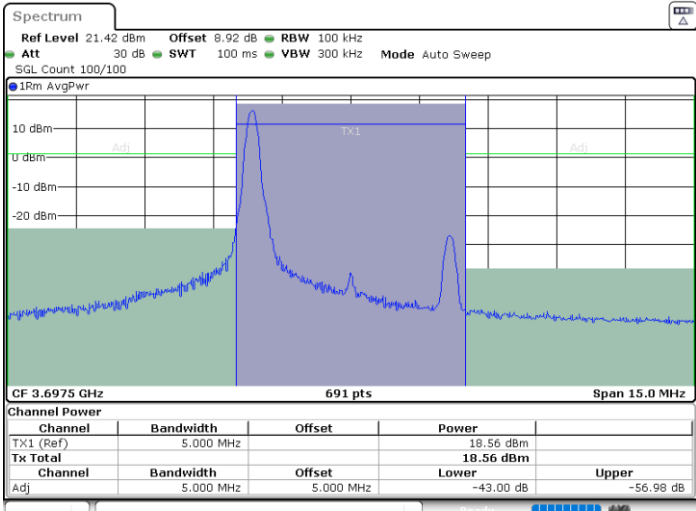


LTE Band 48 / 5MHz

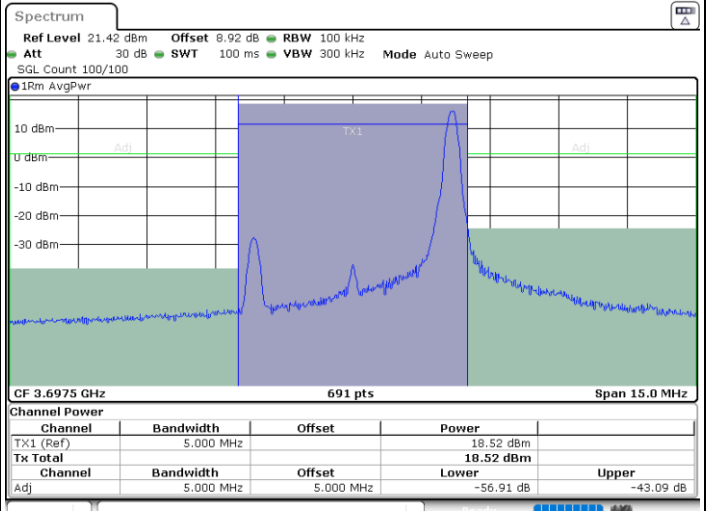
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

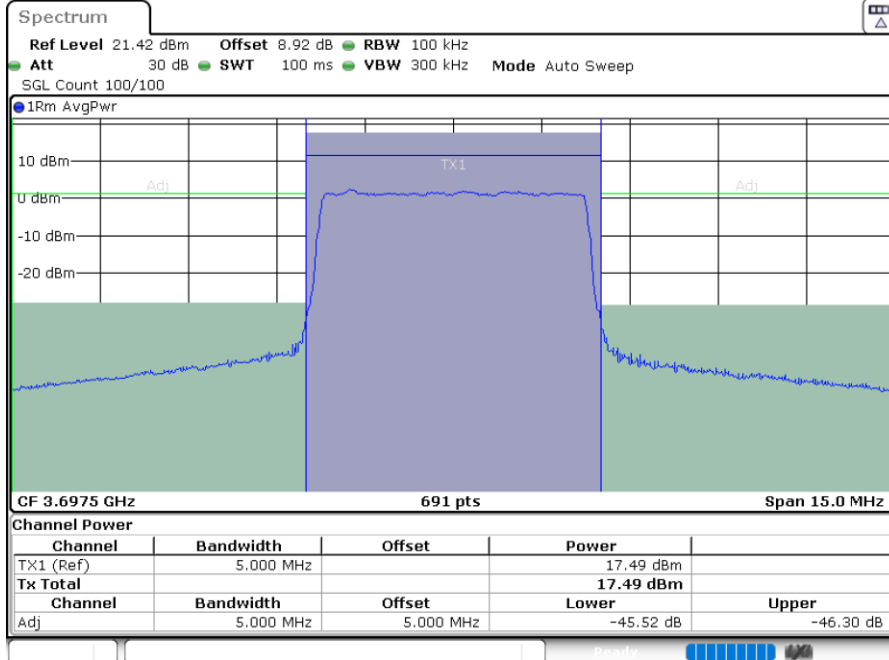


Date: 27.OCT.2023 13:06:11



Date: 27.OCT.2023 13:08:05

Highest Channel / Full RB



Date: 27.OCT.2023 13:11:06

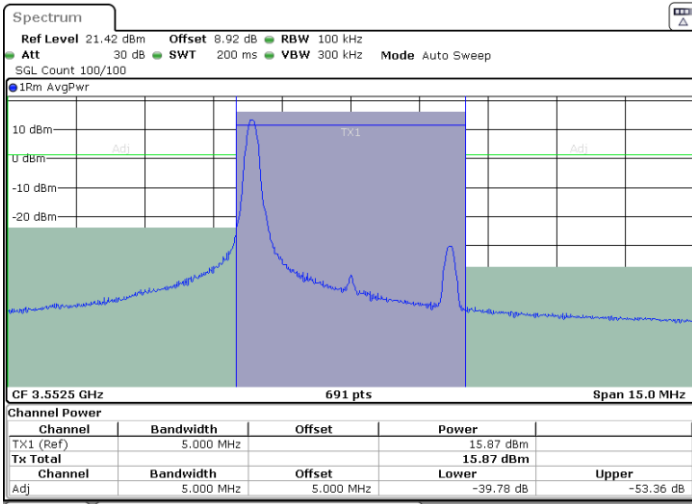


LTE Band 48 / 5MHz

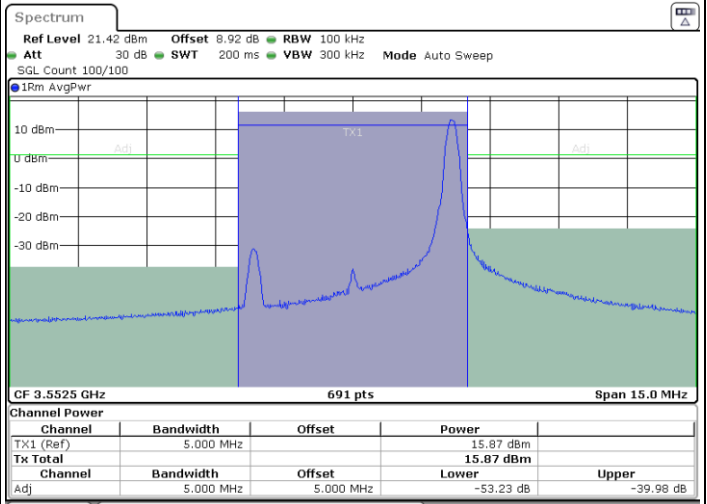
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

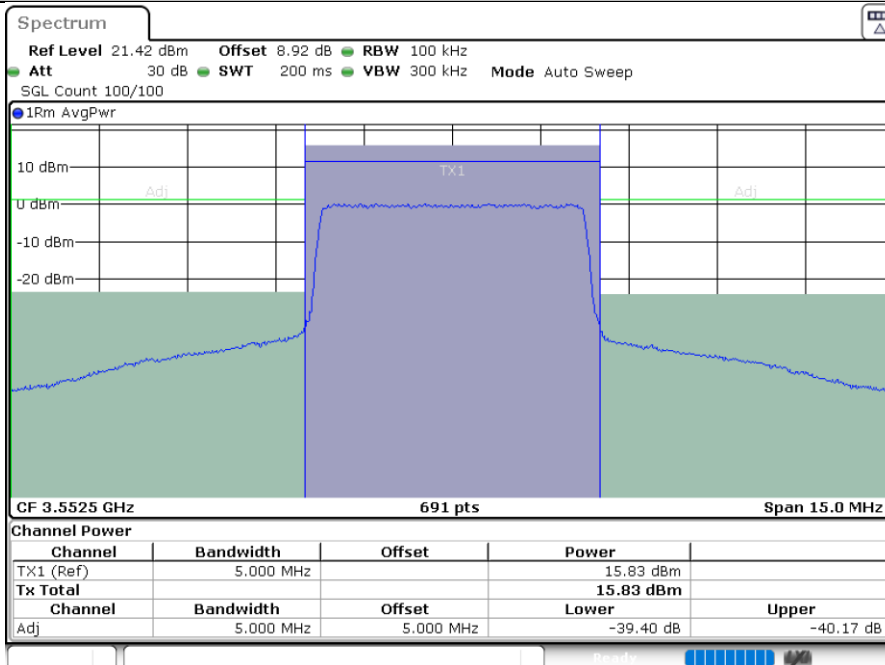


Date: 27.OCT.2023 11:53:18



Date: 27.OCT.2023 11:53:59

Lowest Channel / Full RB



Date: 27.OCT.2023 11:58:25

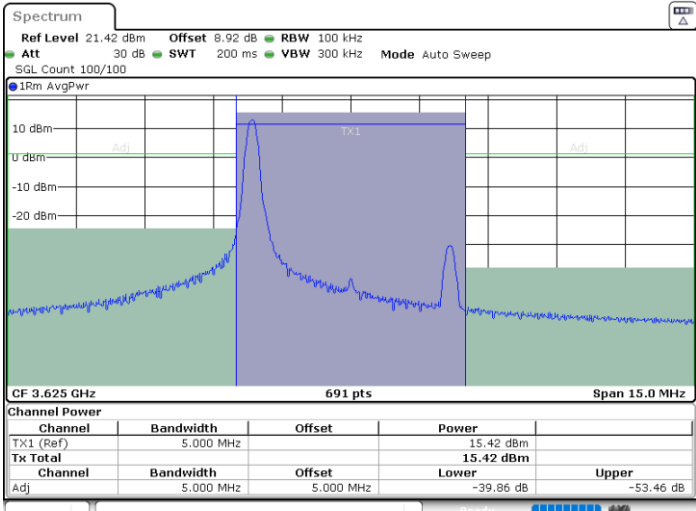


LTE Band 48 / 5MHz

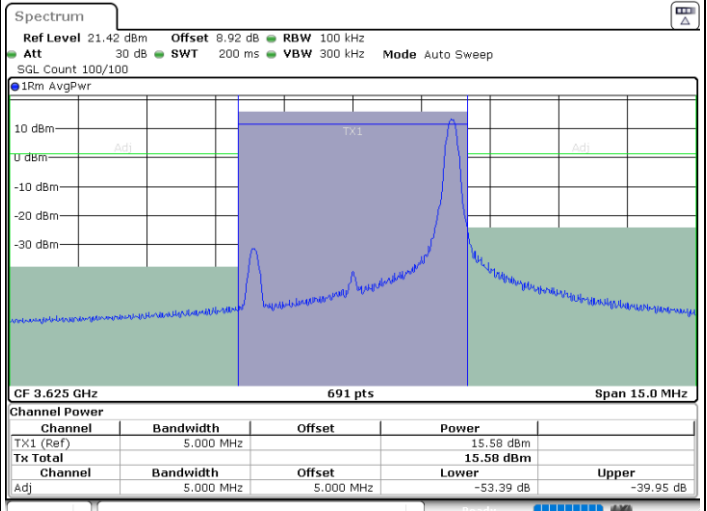
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

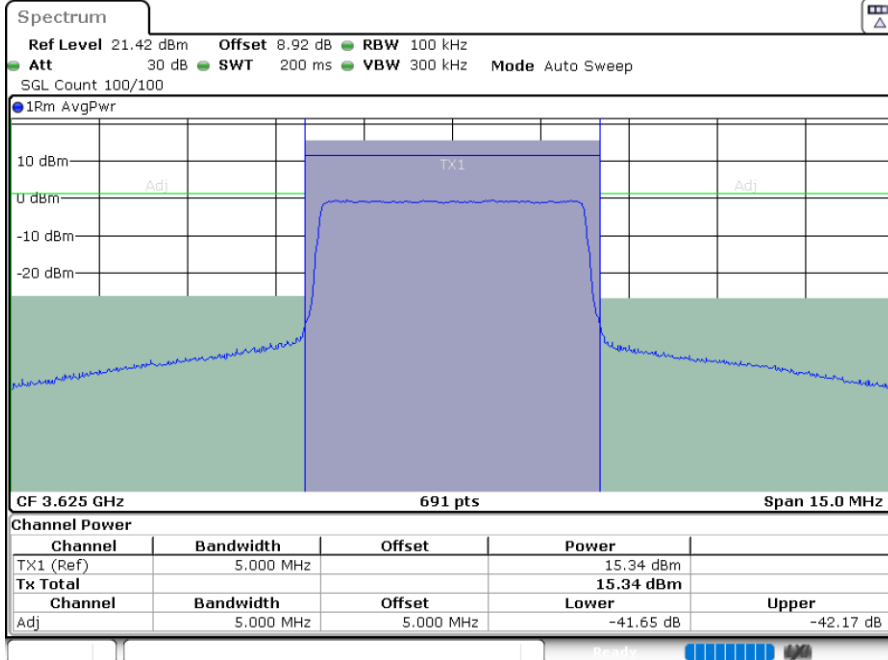


Date: 27.OCT.2023 12:56:43



Date: 27.OCT.2023 12:57:20

Middle Channel / Full RB



Date: 27.OCT.2023 13:01:35

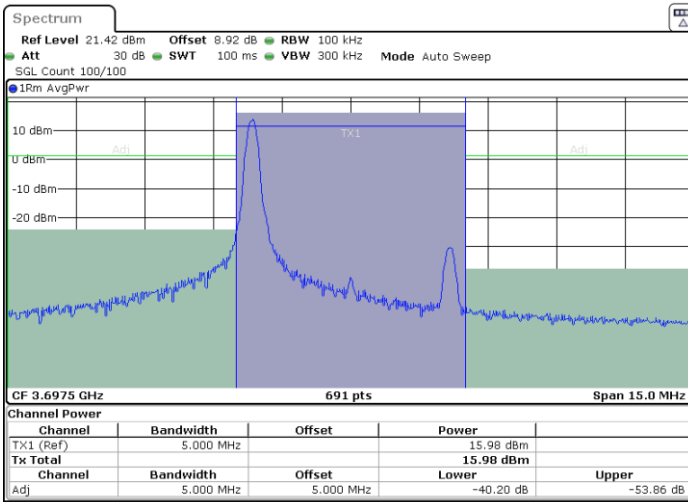


LTE Band 48 / 5MHz

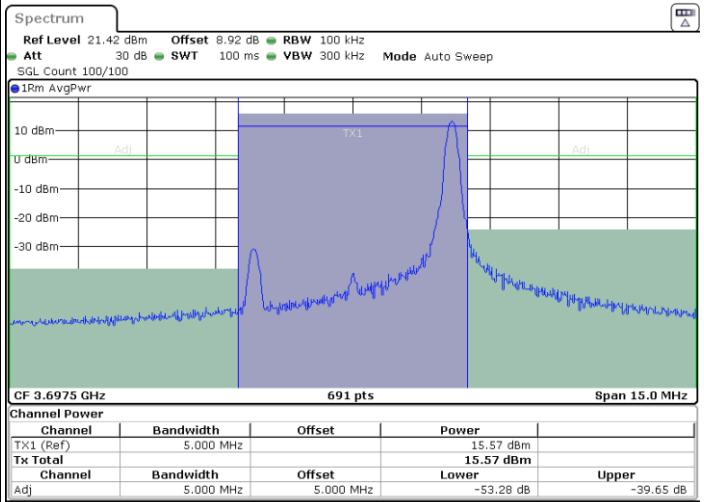
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

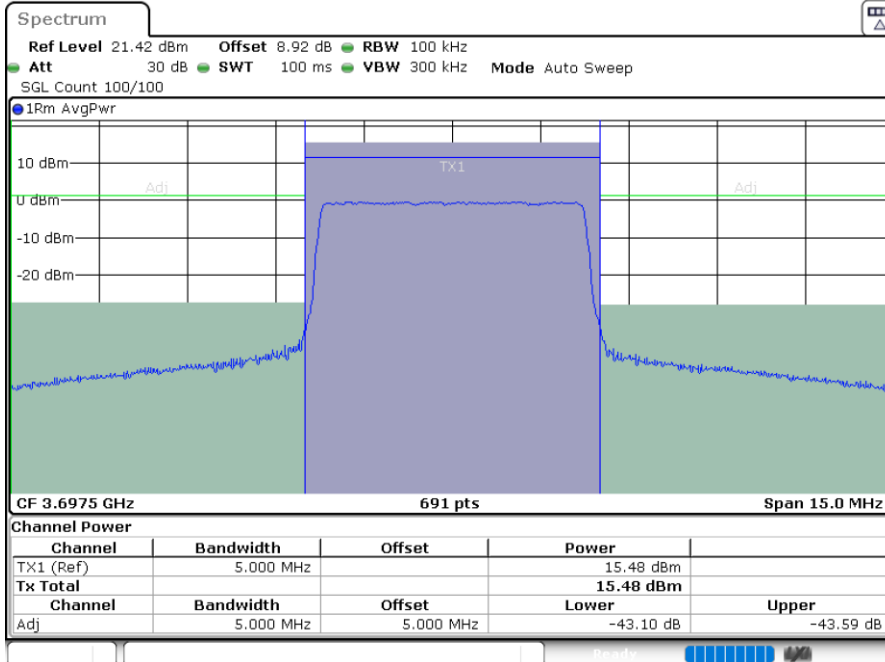


Date: 27.OCT.2023 13:06:47



Date: 27.OCT.2023 13:07:26

Highest Channel / Full RB



Date: 27.OCT.2023 13:11:42

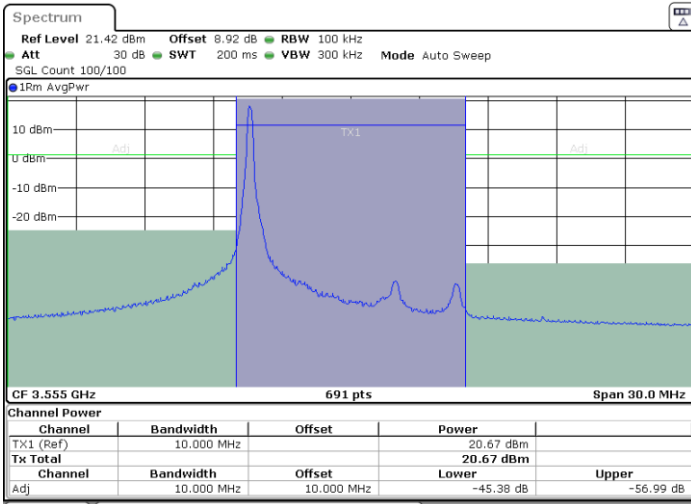


LTE Band 48 / 10MHz

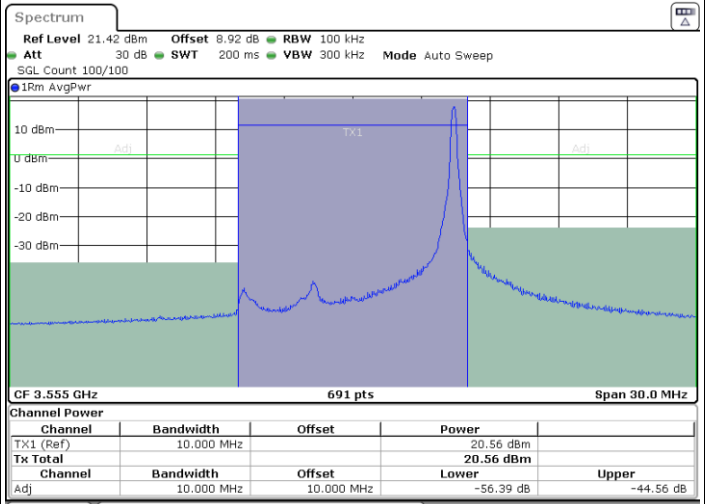
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

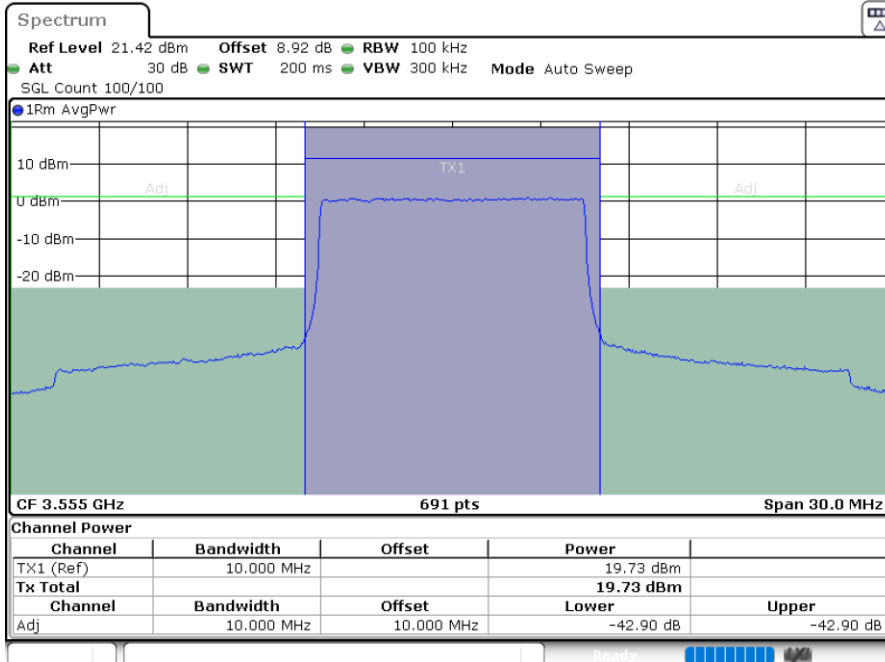


Date: 27.OCT.2023 13:13:04



Date: 27.OCT.2023 13:17:32

Lowest Channel / Full RB



Date: 27.OCT.2023 13:18:10

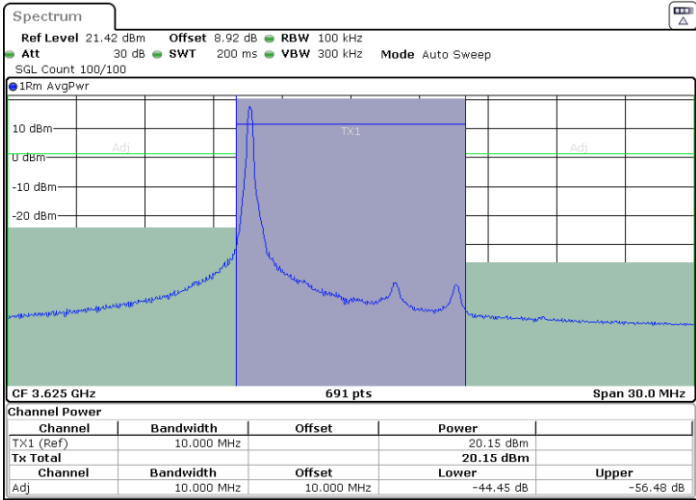


LTE Band 48 / 10MHz

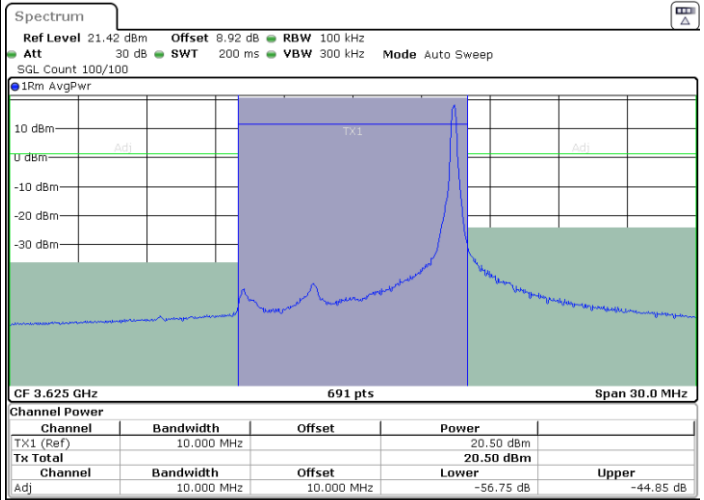
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax

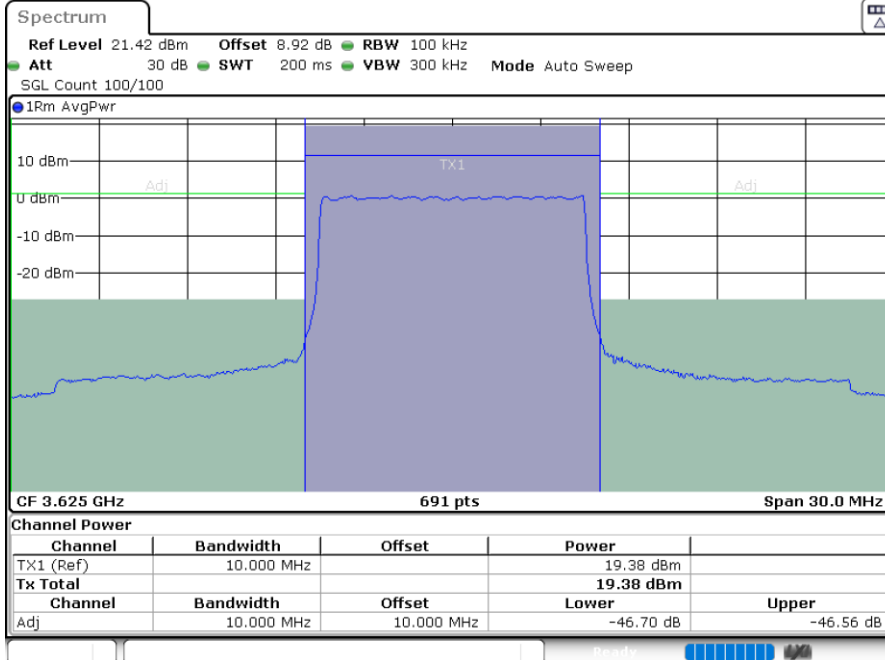


Date: 27.OCT.2023 13:21:52



Date: 27.OCT.2023 13:24:22

Middle Channel / Full RB



Date: 27.OCT.2023 13:28:45

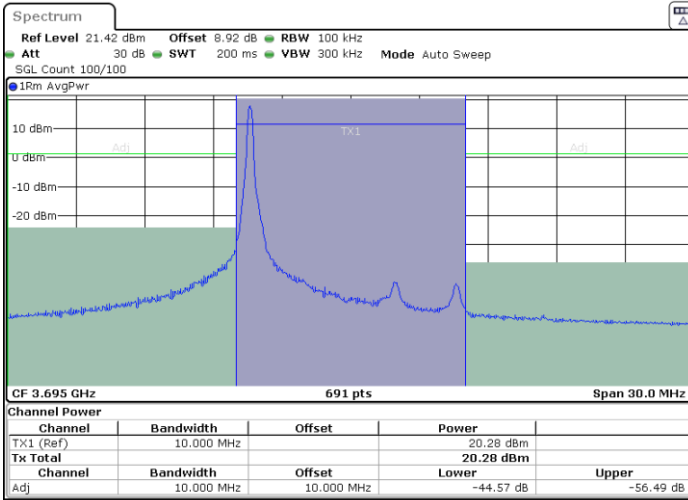


LTE Band 48 / 10MHz

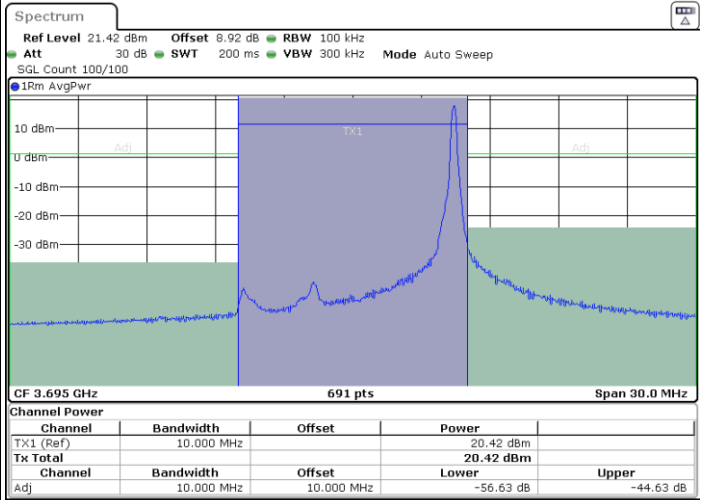
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

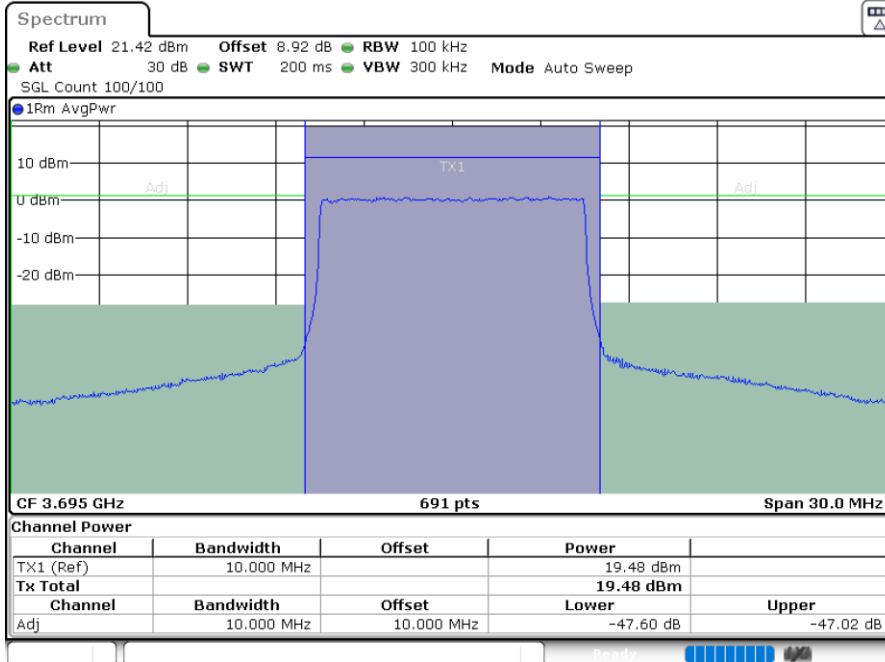


Date: 27.OCT.2023 13:29:23



Date: 27.OCT.2023 13:33:57

Highest Channel / Full RB



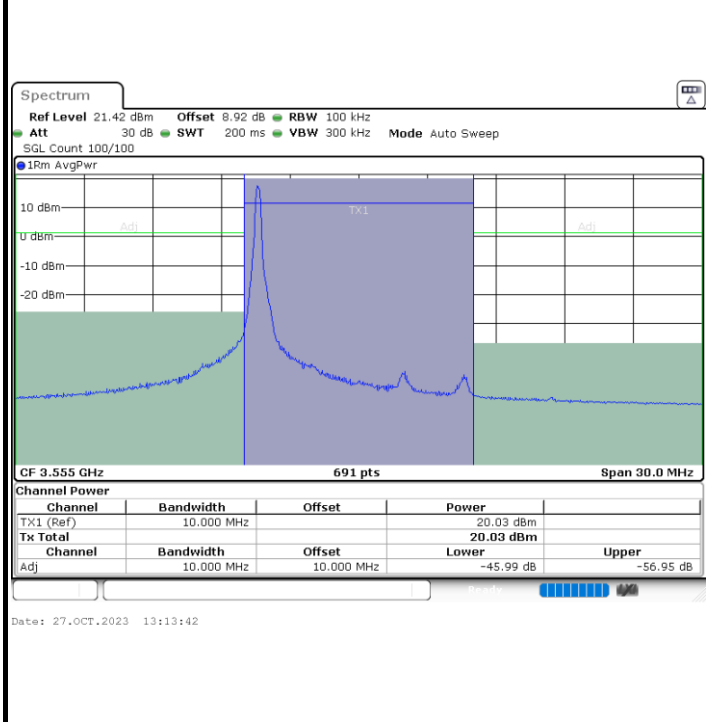
Date: 27.OCT.2023 13:34:35



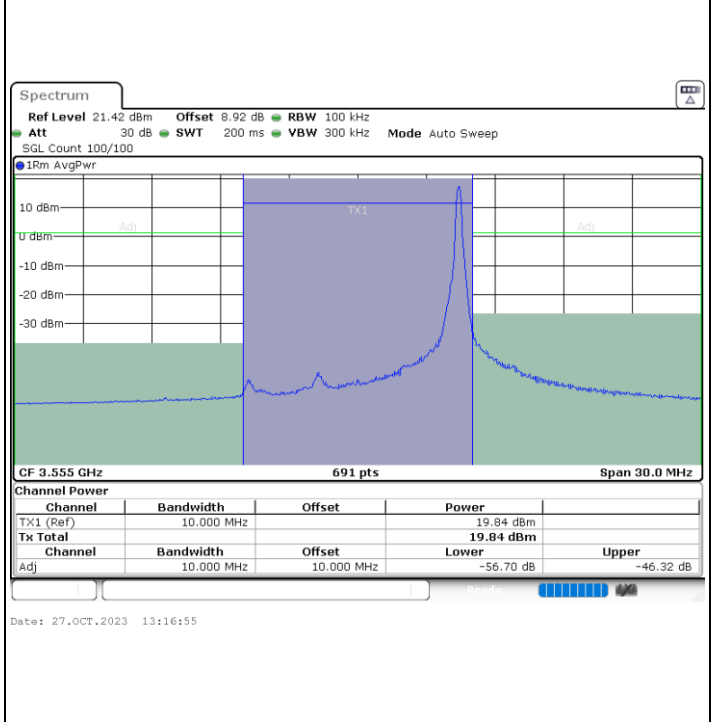
LTE Band 48 / 10MHz

16QAM

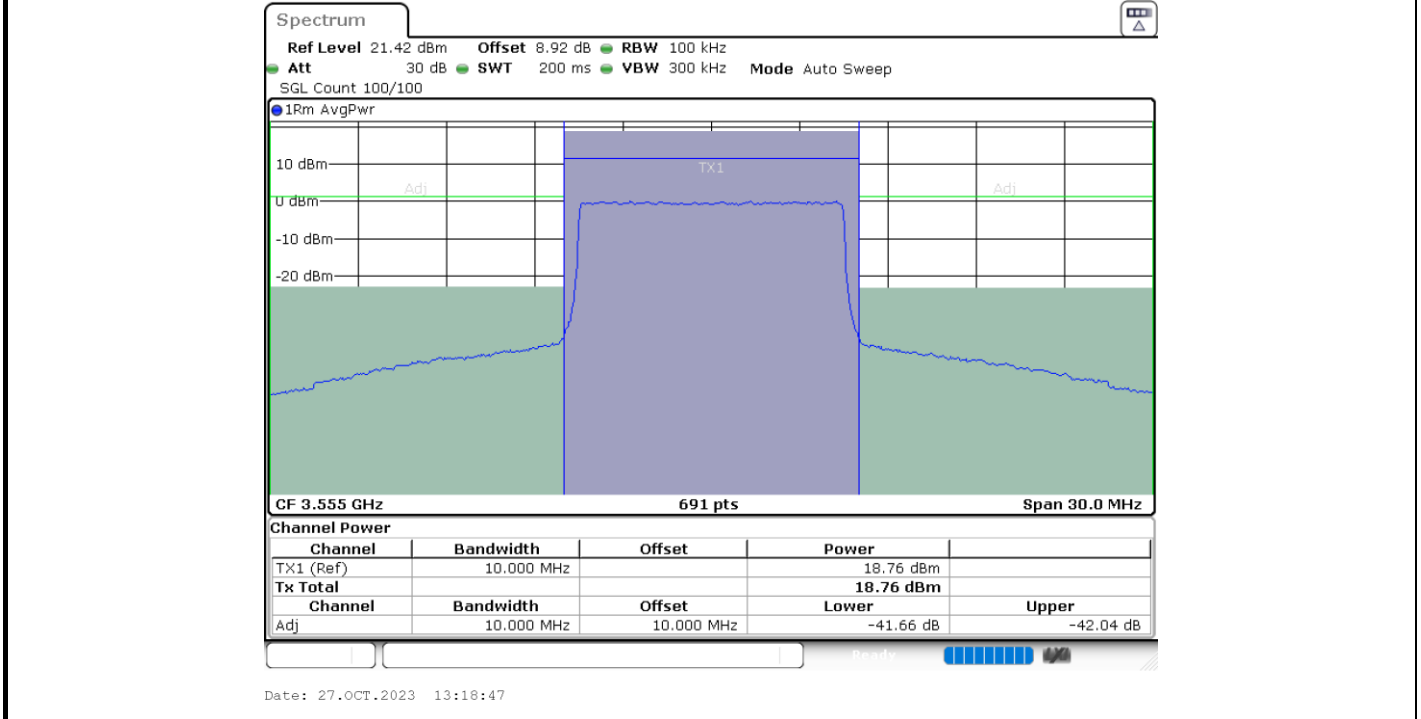
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



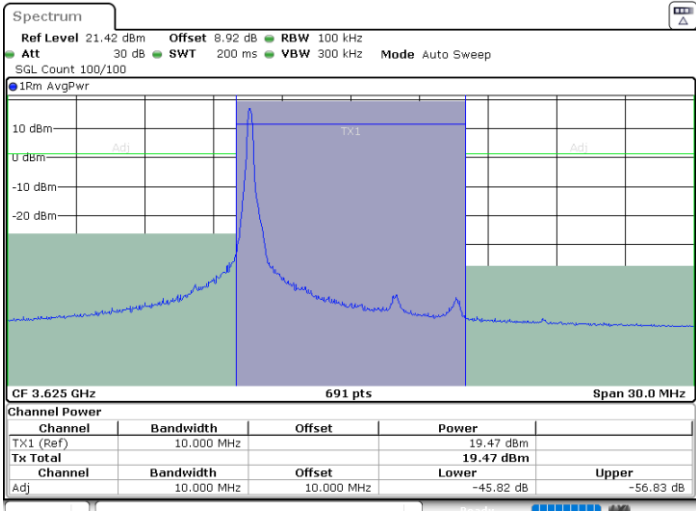


LTE Band 48 / 10MHz

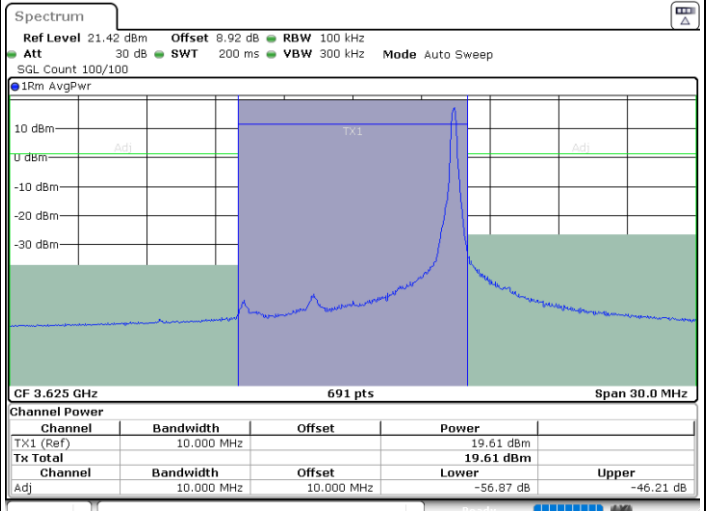
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

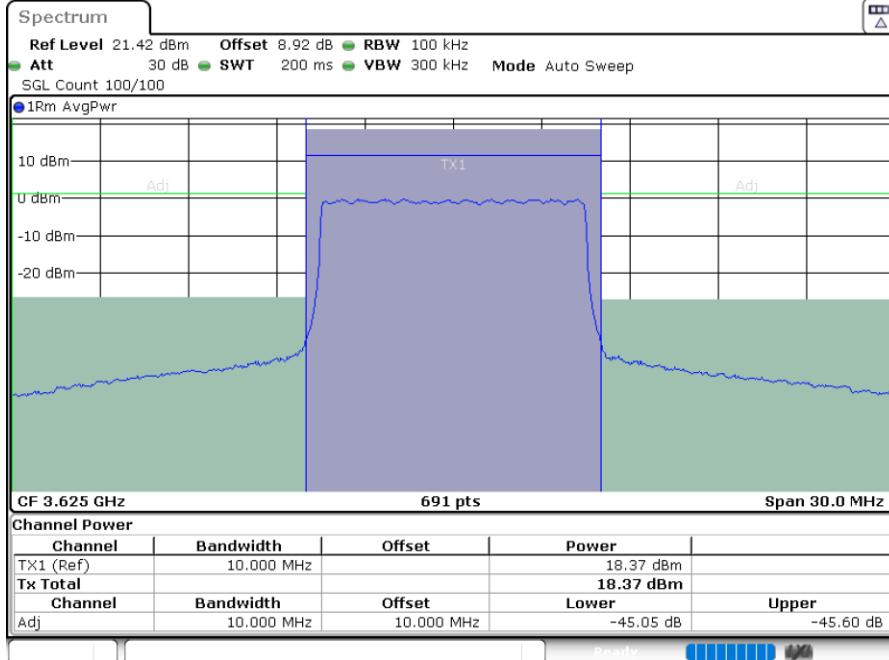


Date: 27.OCT.2023 13:22:29



Date: 27.OCT.2023 13:24:59

Middle Channel / Full RB



Date: 27.OCT.2023 13:28:07

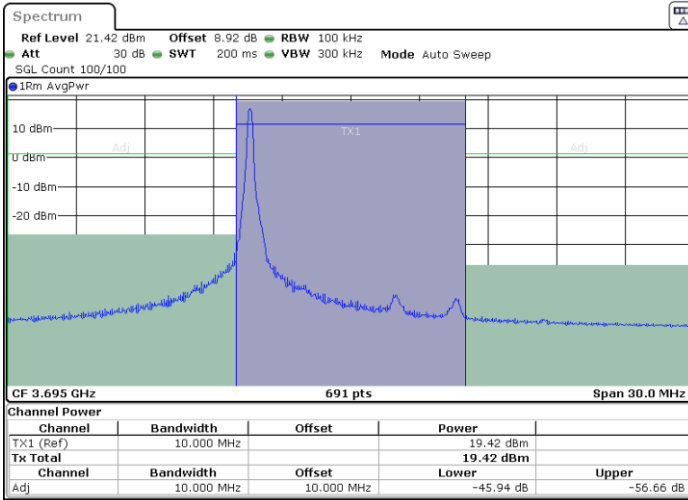


LTE Band 48 / 10MHz

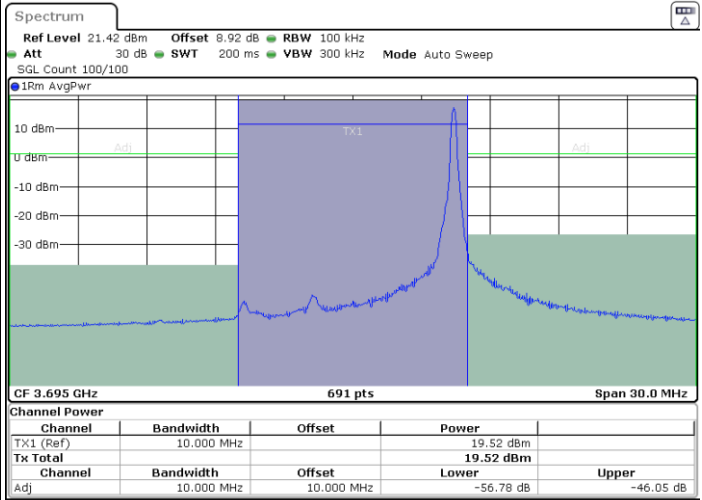
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

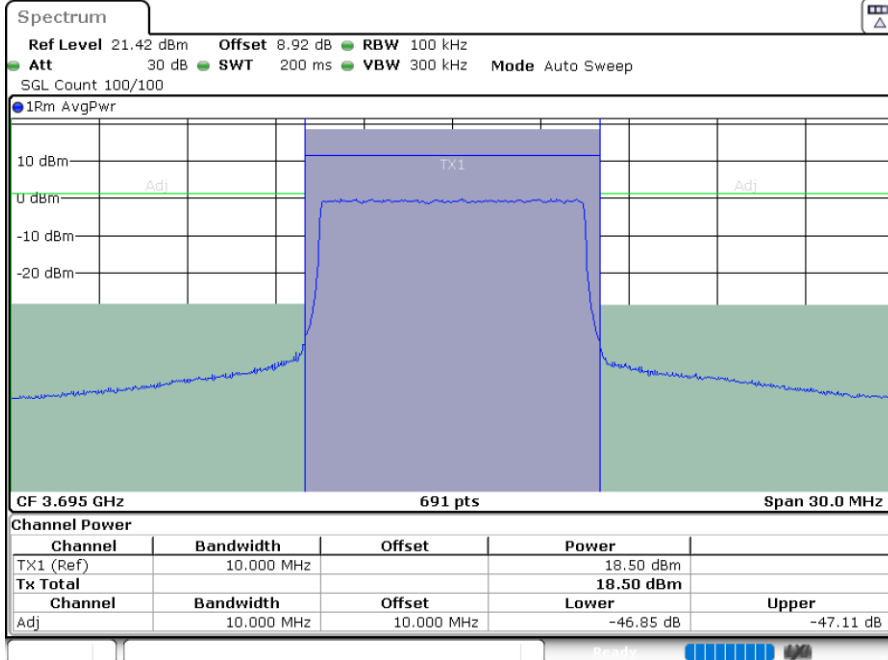


Date: 27.OCT.2023 13:30:02



Date: 27.OCT.2023 13:33:18

Highest Channel / Full RB



Date: 27.OCT.2023 13:35:13

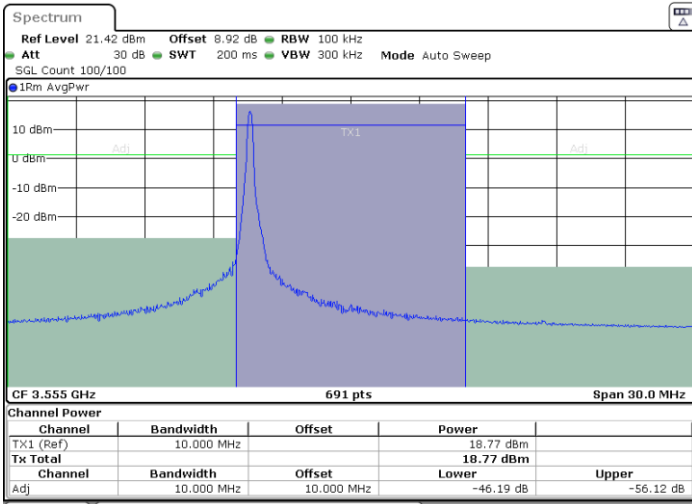


LTE Band 48 / 10MHz

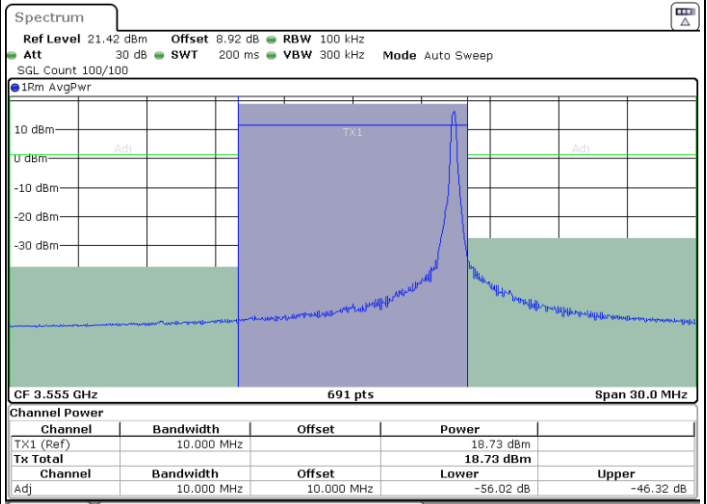
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

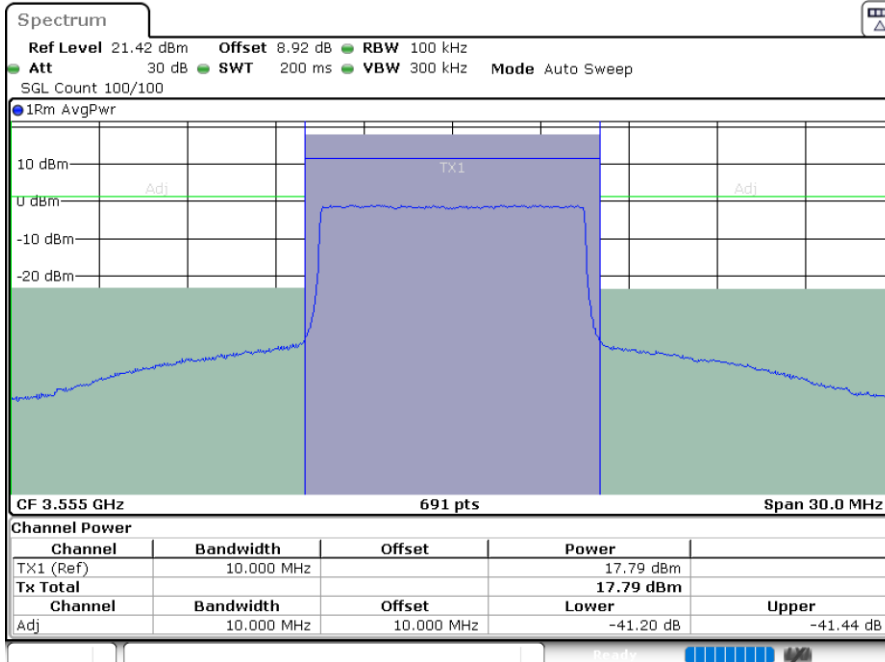


Date: 27.OCT.2023 13:14:19



Date: 27.OCT.2023 13:16:17

Lowest Channel / Full RB



Date: 27.OCT.2023 13:19:25

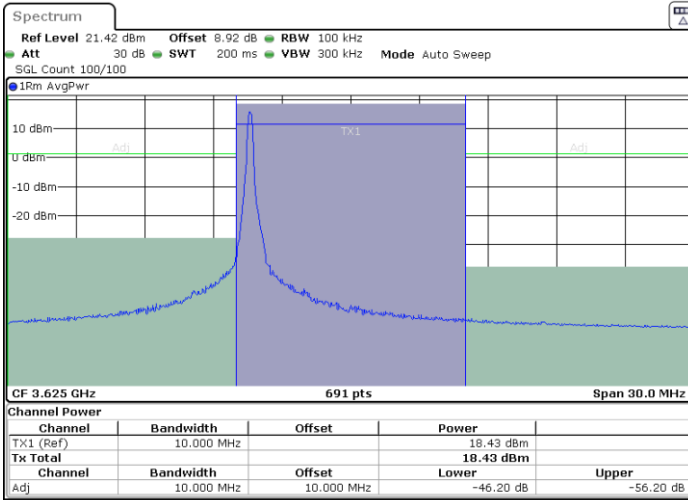


LTE Band 48 / 10MHz

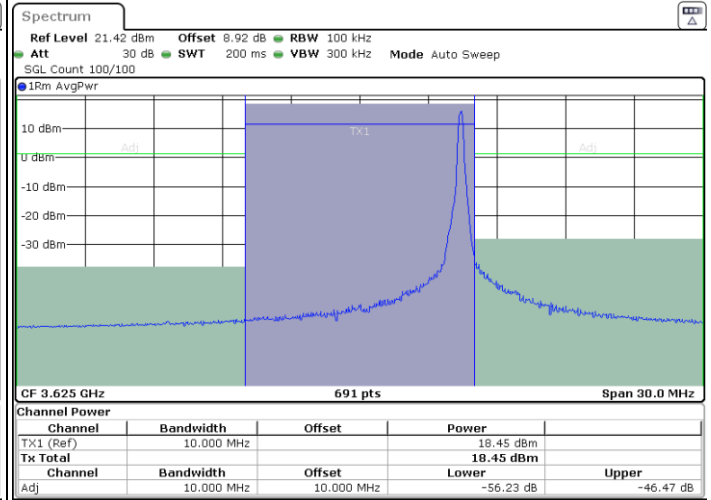
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

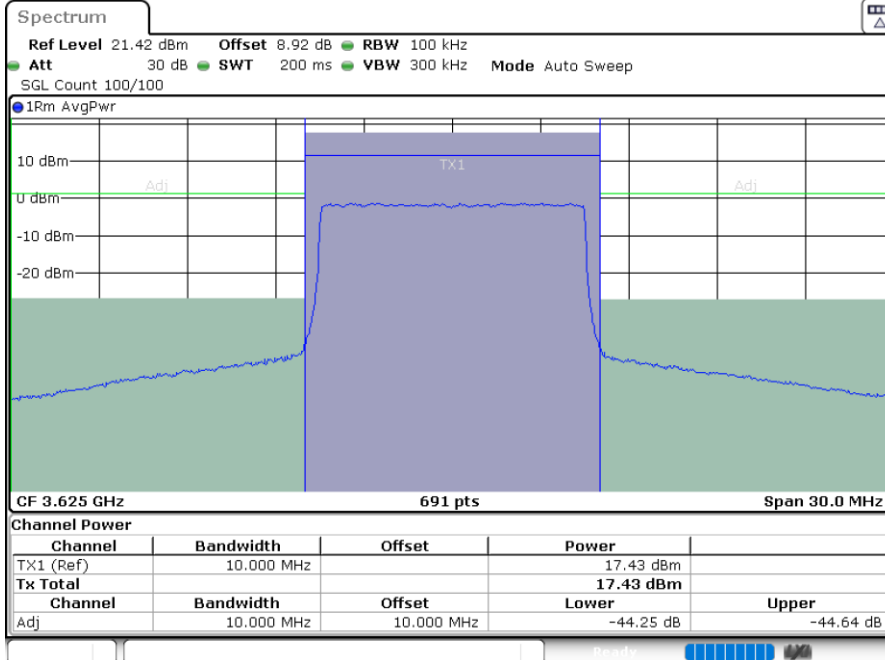


Date: 27.OCT.2023 13:23:07



Date: 27.OCT.2023 13:25:37

Middle Channel / Full RB



Date: 27.OCT.2023 13:27:30

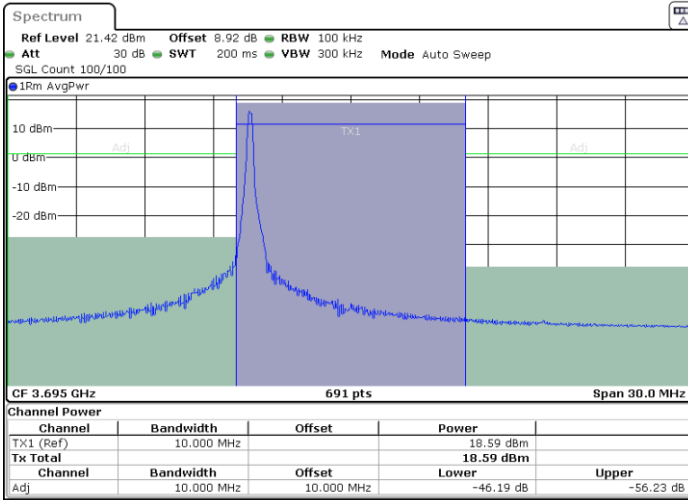


LTE Band 48 / 10MHz

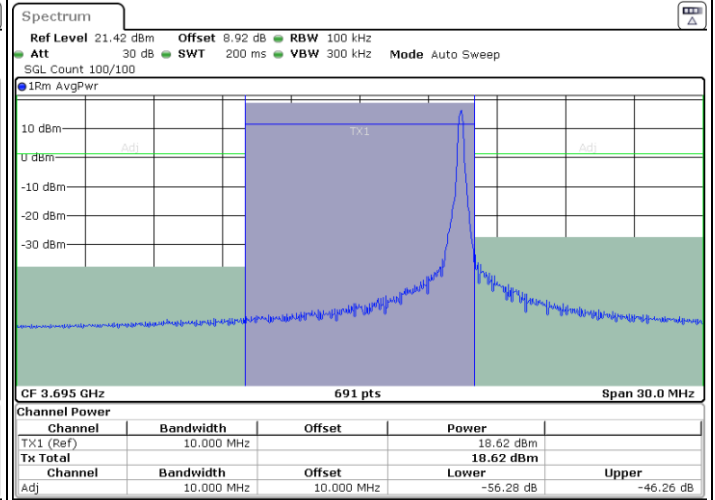
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

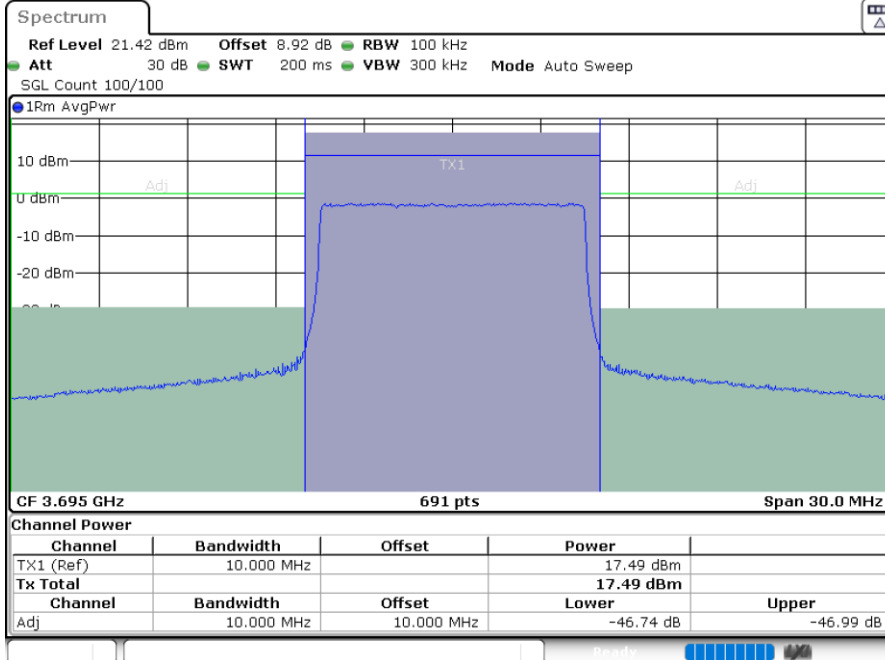


Date: 27.OCT.2023 13:30:40



Date: 27.OCT.2023 13:32:40

Highest Channel / Full RB



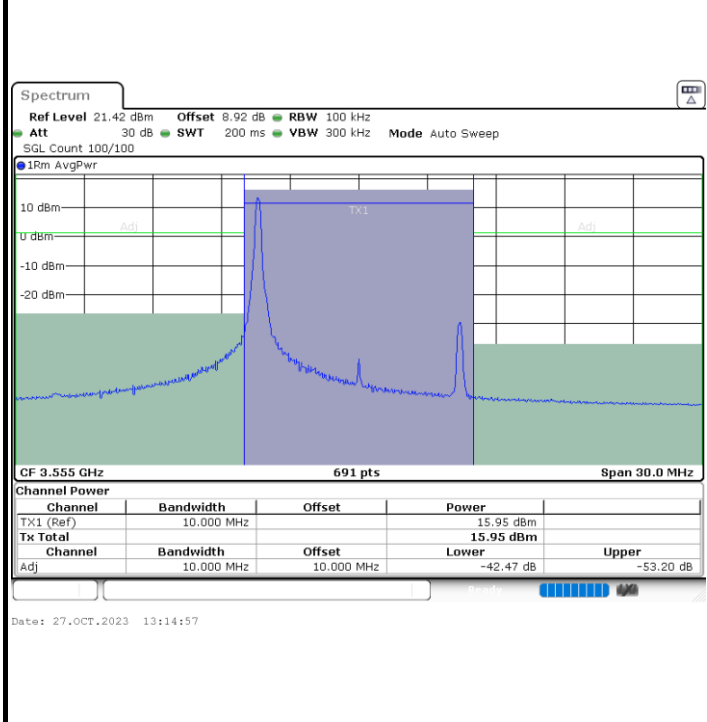
Date: 27.OCT.2023 13:35:51



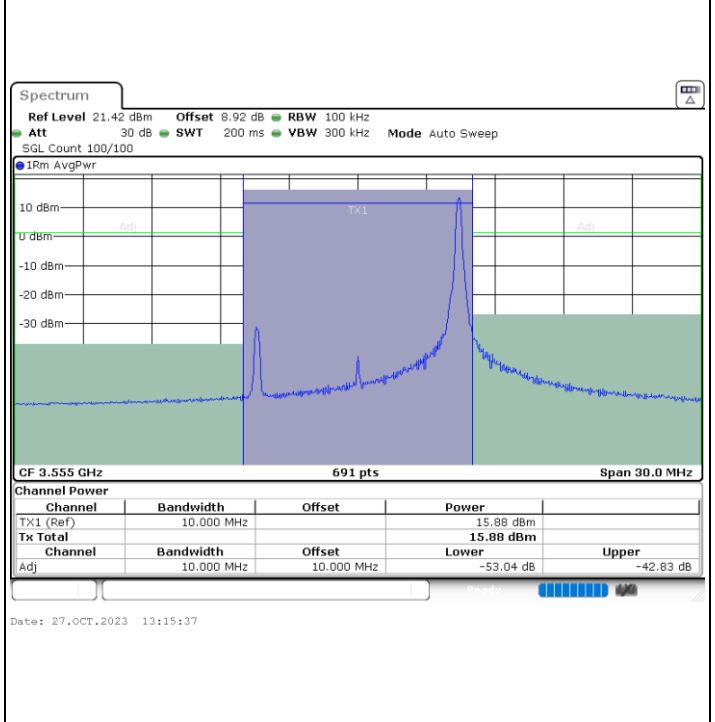
LTE Band 48 / 10MHz

256QAM

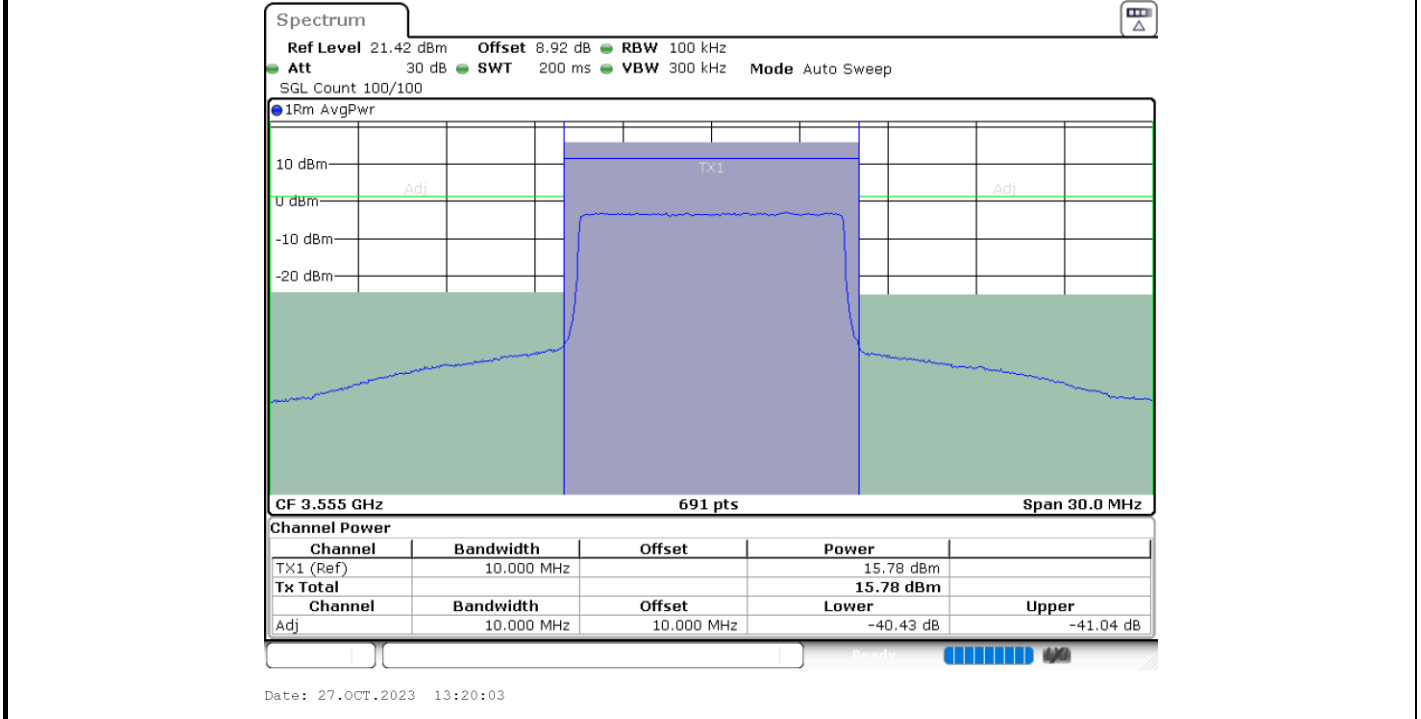
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



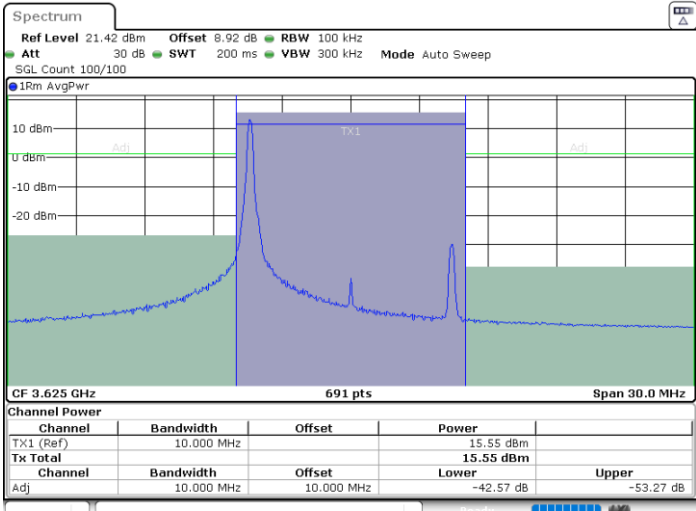


LTE Band 48 / 10MHz

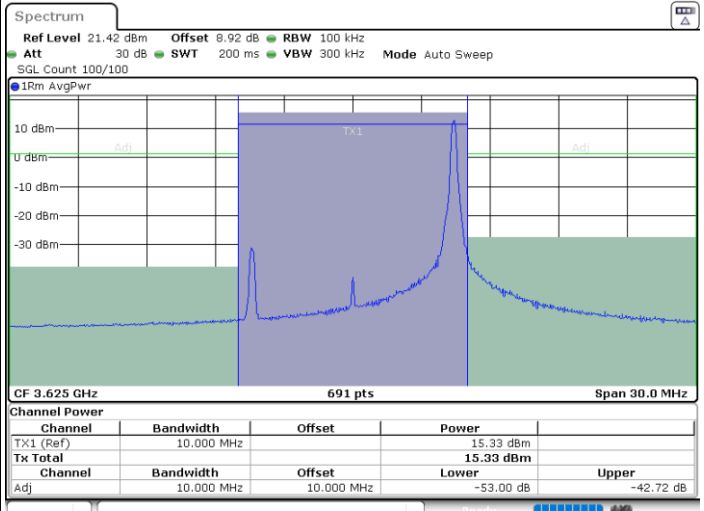
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

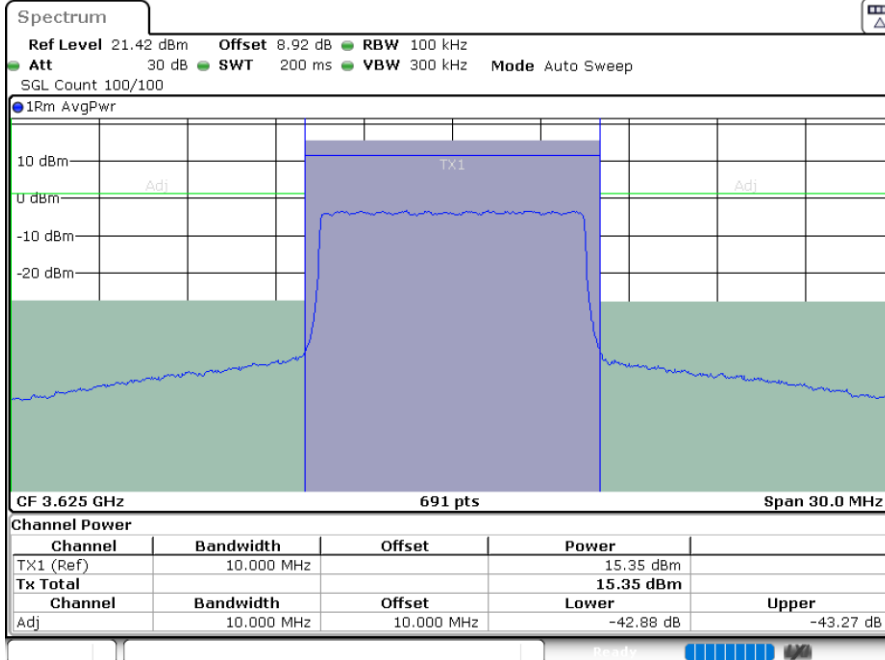


Date: 27.OCT.2023 13:23:44



Date: 27.OCT.2023 13:26:14

Middle Channel / Full RB



Date: 27.OCT.2023 13:26:51

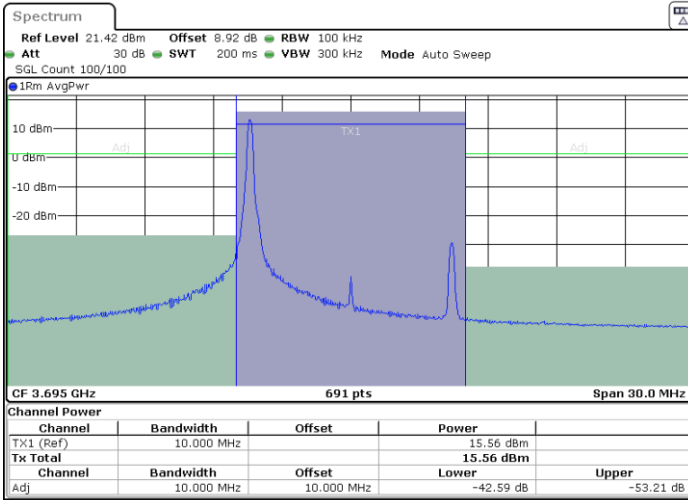


LTE Band 48 / 10MHz

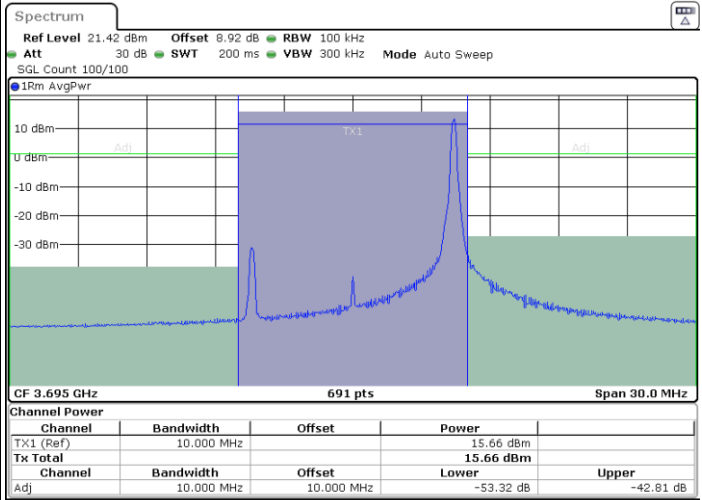
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

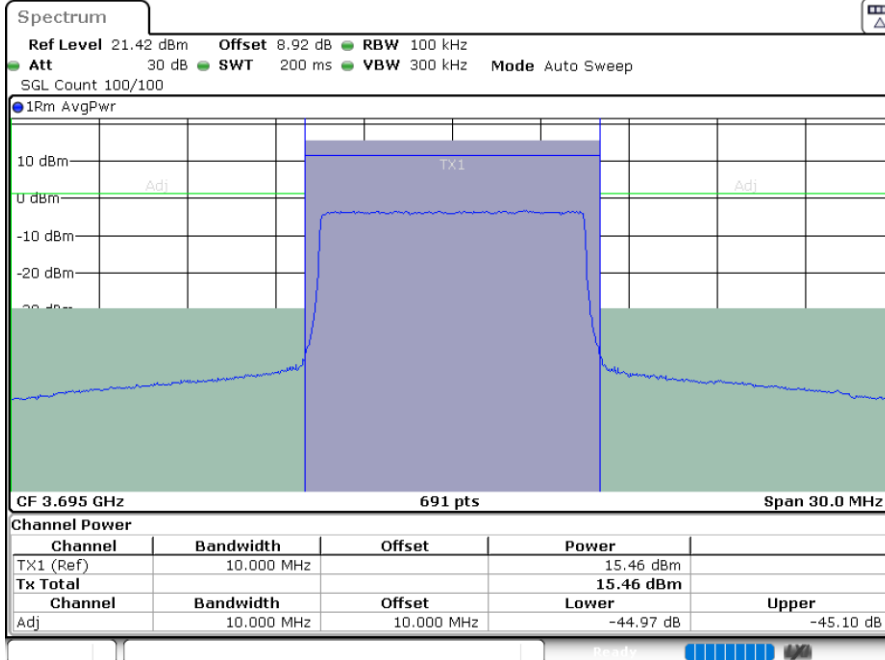


Date: 27.OCT.2023 13:31:18



Date: 27.OCT.2023 13:31:59

Highest Channel / Full RB



Date: 27.OCT.2023 13:36:30

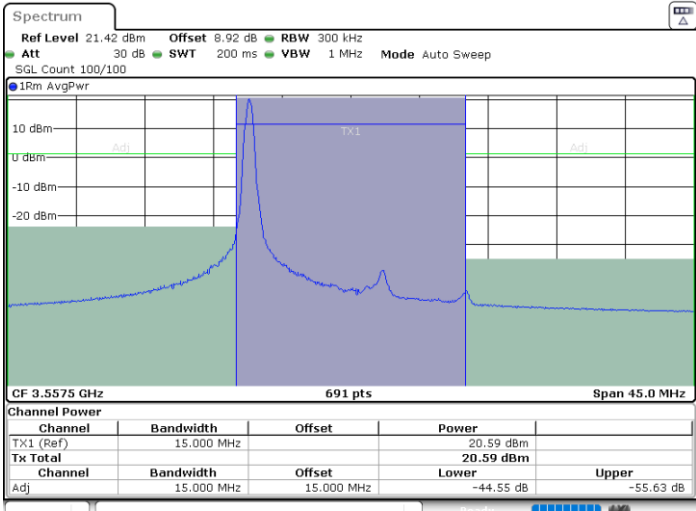


LTE Band 48 / 15MHz

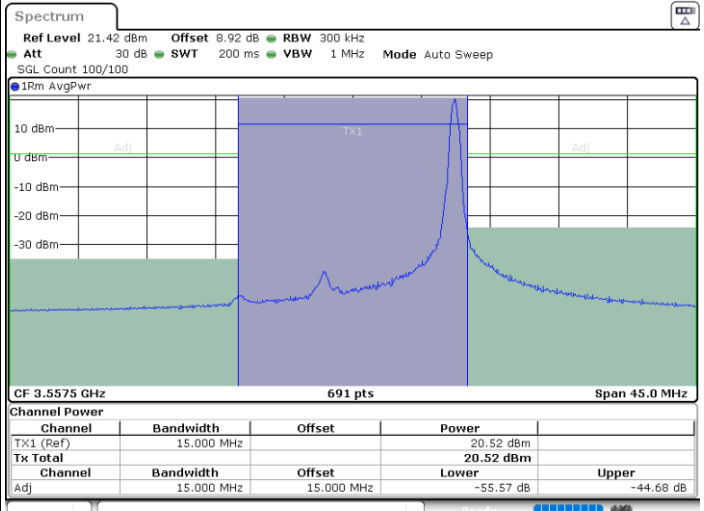
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

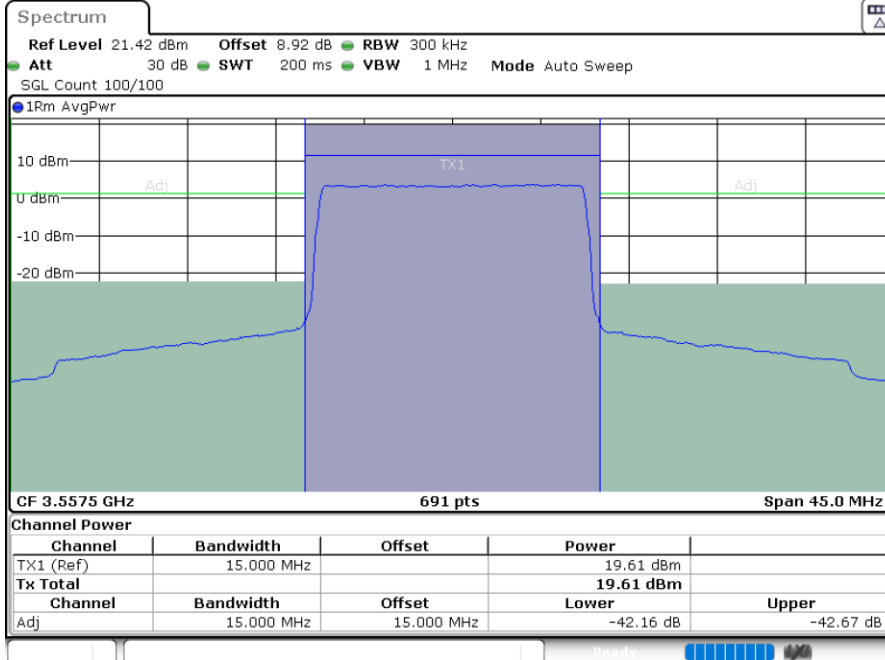


Date: 27.OCT.2023 13:39:31



Date: 27.OCT.2023 13:42:02

Lowest Channel / Full RB



Date: 27.OCT.2023 13:46:28

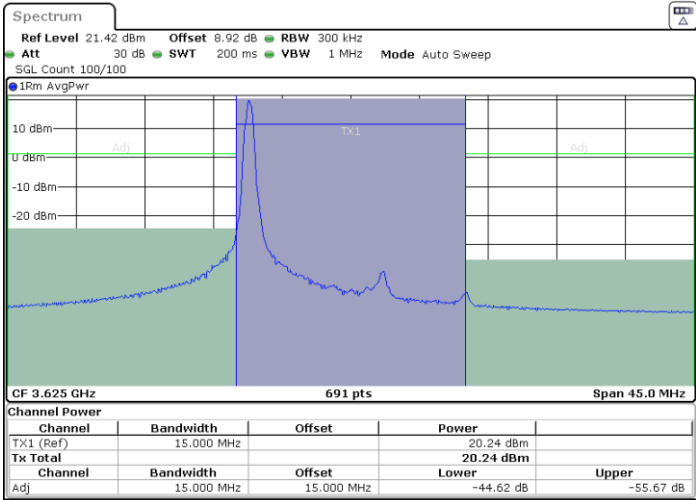


LTE Band 48 / 15MHz

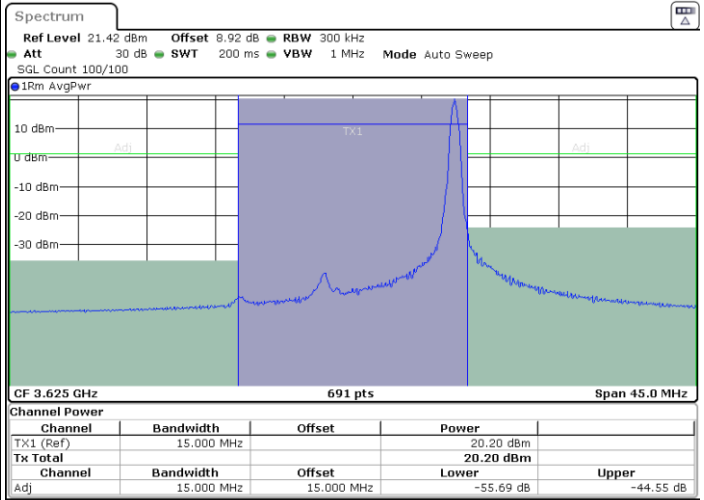
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax

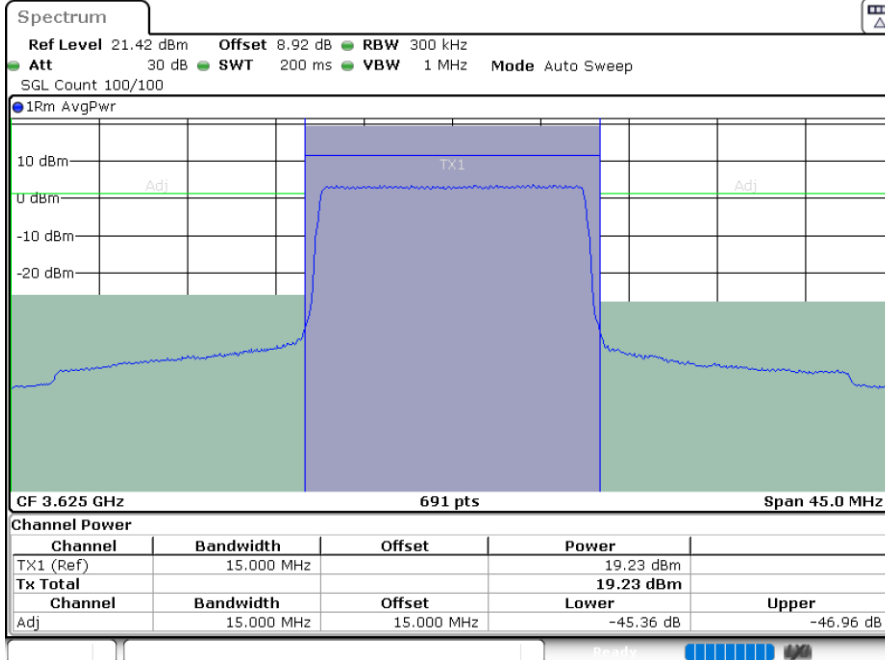


Date: 27.OCT.2023 13:47:04



Date: 27.OCT.2023 13:51:20

Middle Channel / Full RB



Date: 27.OCT.2023 13:51:57

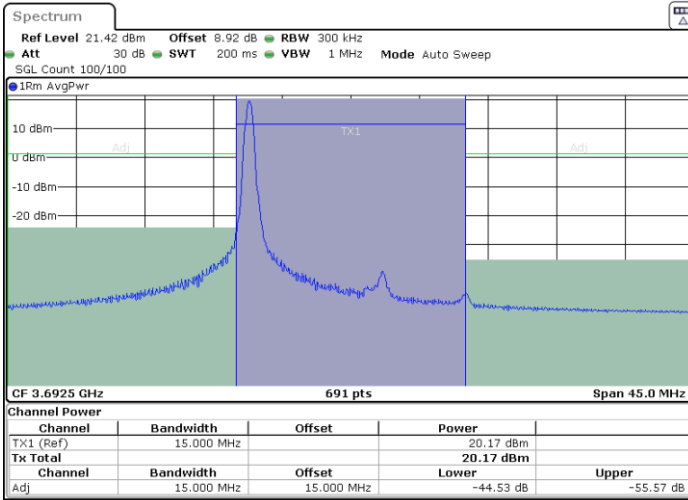


LTE Band 48 / 15MHz

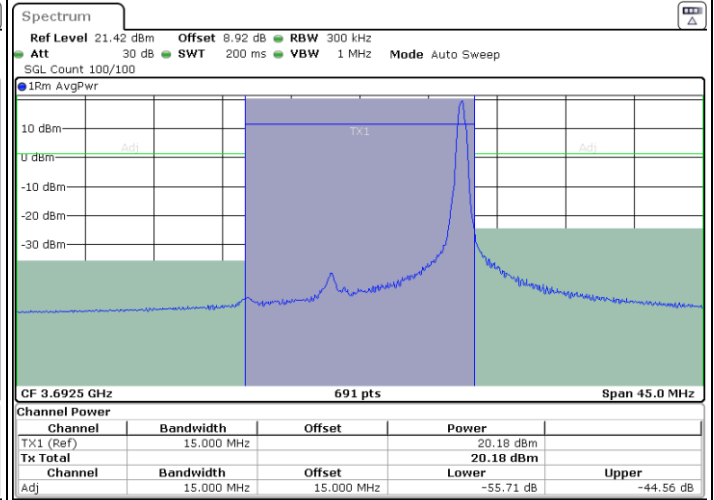
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

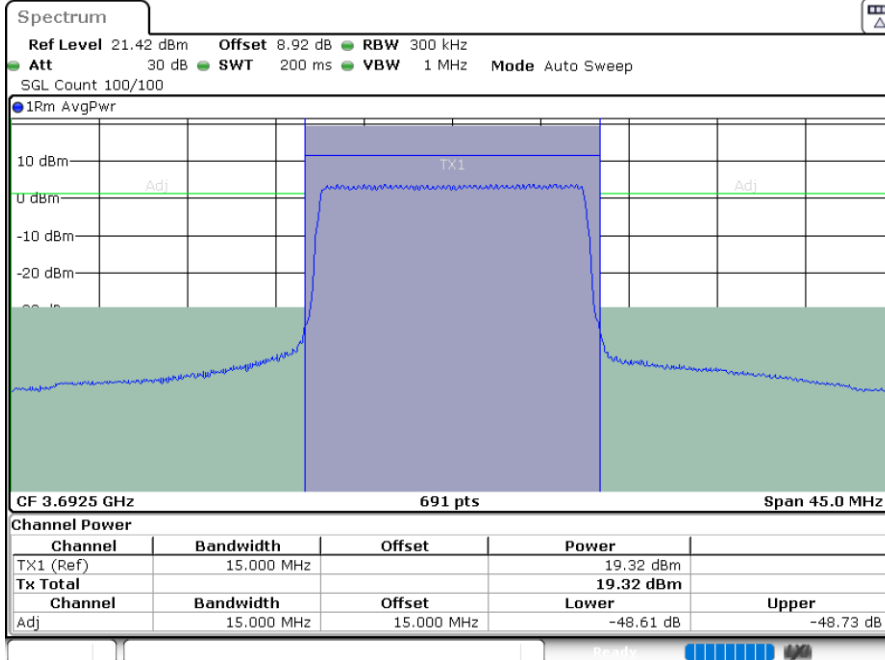


Date: 27.OCT.2023 13:54:23



Date: 27.OCT.2023 13:58:51

Highest Channel / Full RB



Date: 27.OCT.2023 13:59:28

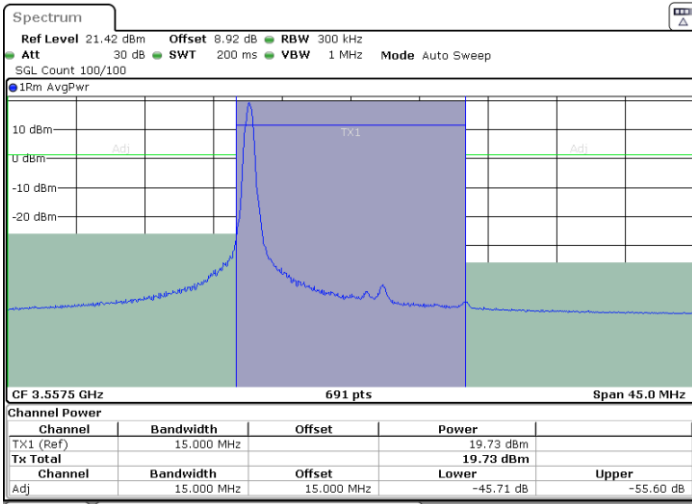


LTE Band 48 / 15MHz

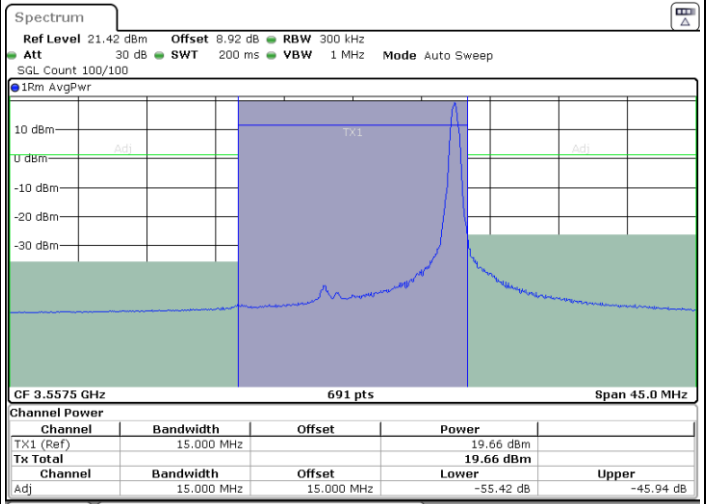
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

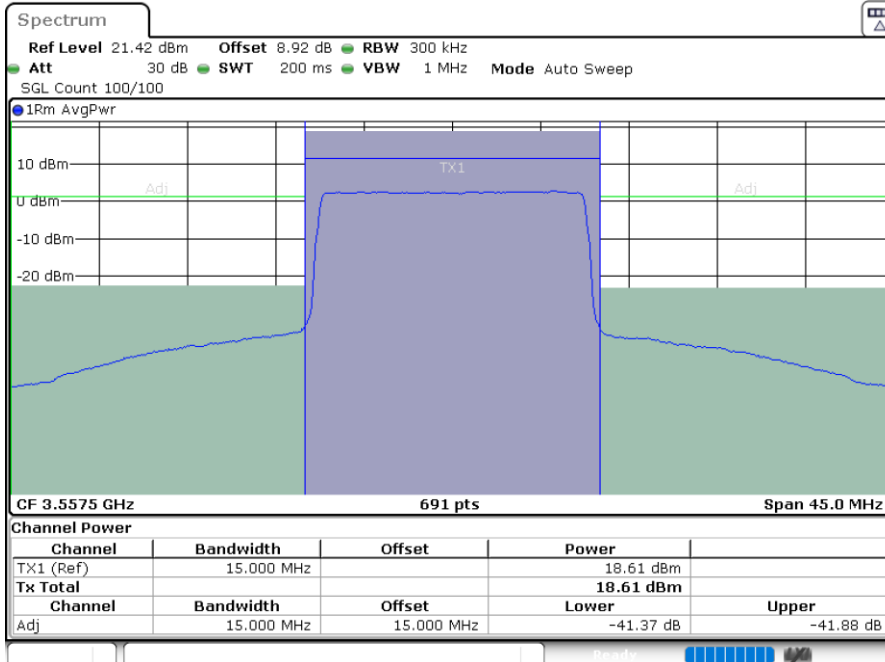


Date: 27.OCT.2023 13:40:08



Date: 27.OCT.2023 13:42:40

Lowest Channel / Full RB



Date: 27.OCT.2023 13:45:50

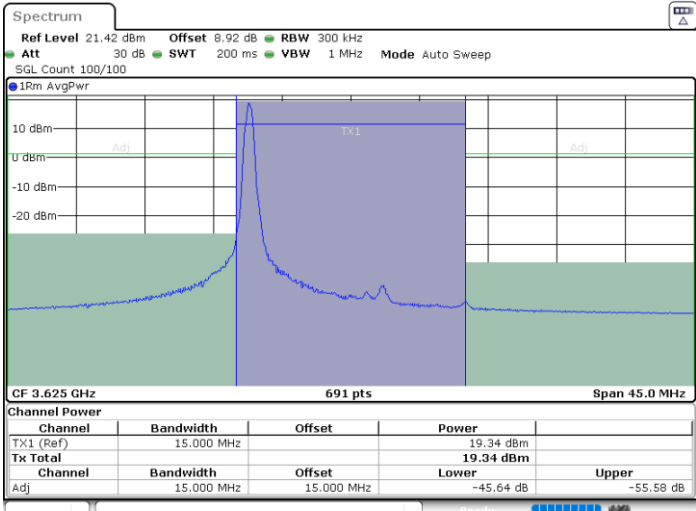


LTE Band 48 / 15MHz

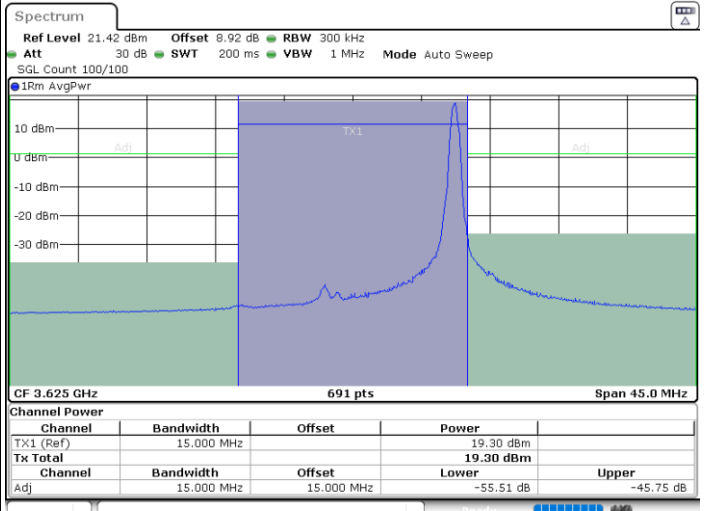
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

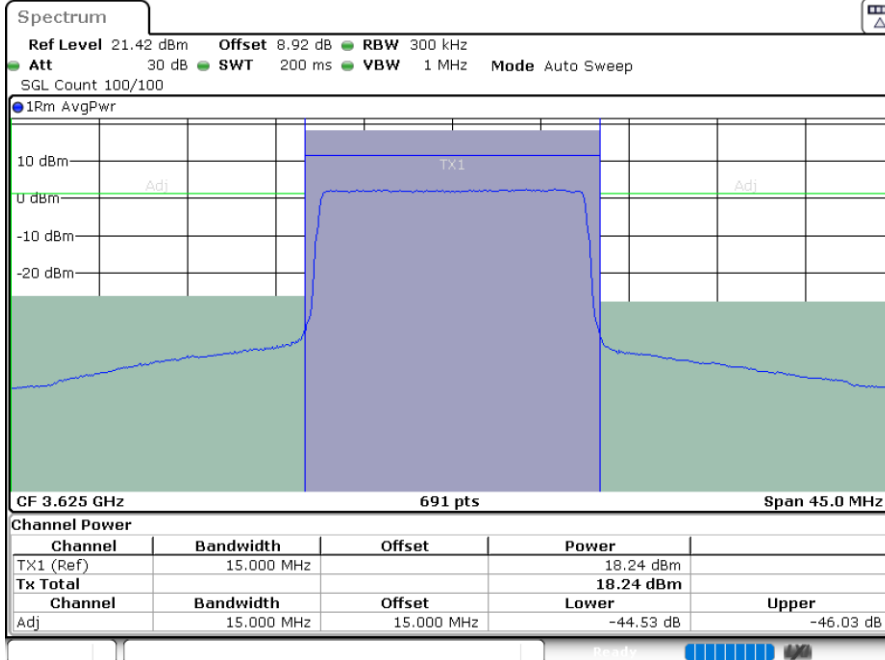


Date: 27.OCT.2023 13:47:41



Date: 27.OCT.2023 13:50:43

Middle Channel / Full RB



Date: 27.OCT.2023 13:52:33

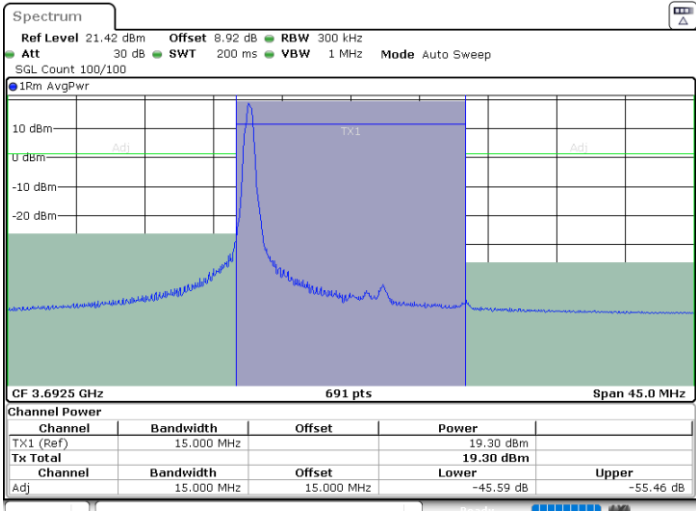


LTE Band 48 / 15MHz

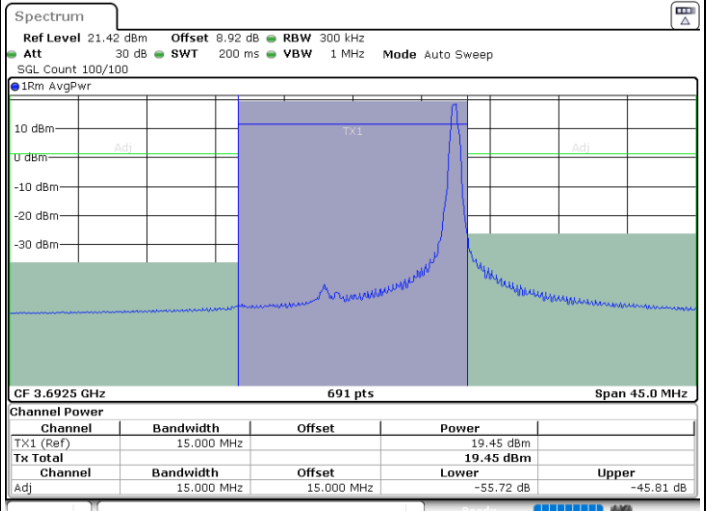
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

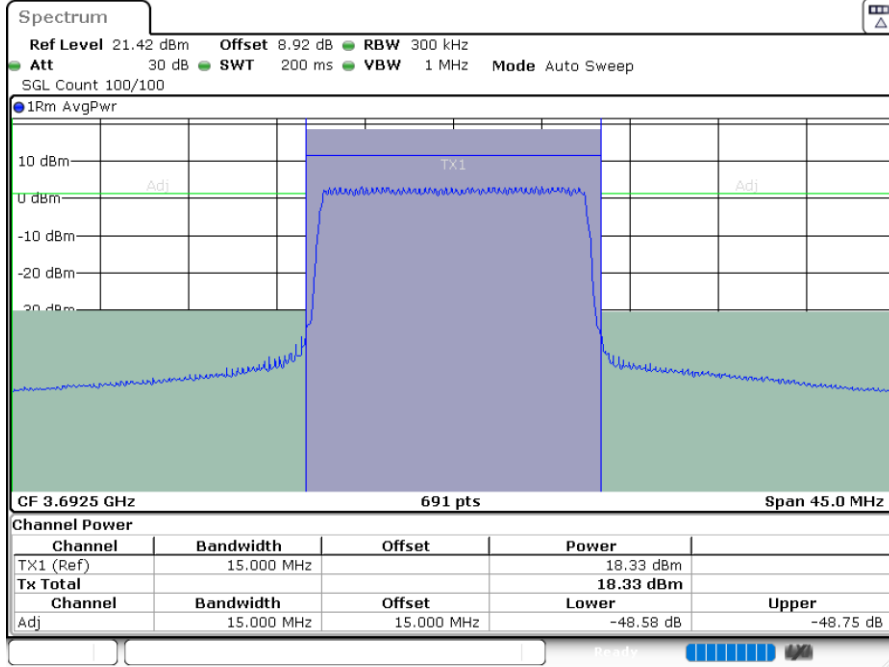


Date: 27.OCT.2023 13:55:01



Date: 27.OCT.2023 13:58:14

Highest Channel / Full RB



Date: 27.OCT.2023 14:00:05