



# FCC RF Test Report

**APPLICANT** : Xiaomi Communications Co., Ltd.  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : POCO  
**MODEL NAME** : 2311DRK48G  
**FCC ID** : 2AFZZK48G  
**STANDARD** : 47 CFR Part 2, 96  
**CLASSIFICATION** : Citizens Band End User Devices (CBE)  
**EQUIPMENT TYPE** : End User Equipment  
**TEST DATE(S)** : Sep. 22, 2023 ~ Oct. 11, 2023

We, Sporton International Inc. (ShenZhen), 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. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

**Sporton International Inc. (ShenZhen)**

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055**

**People's Republic of China**



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### 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 11.86 dB at 14664.000 MHz

Conformity Assessment Condition:
<ol style="list-style-type: none"> <li>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.</li> <li>The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"</li> </ol>
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

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	POCO
Model Name	2311DRK48G
FCC ID	2AFZZK48G
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>: 23.32 dBm <Ant.6>: 21.24 dBm <Ant.7>: 21.31 dBm <Ant.8>: 21.30 dBm
Antenna Gain	<Ant.5>: -1.80 dBi <Ant.6>: -1.80 dBi <Ant.7>: -0.35 dBi <Ant.8>: -1.50 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM
IMEI Code	Conducted: 863478060045301/863478060046319 Radiation: 863478060040627/863478060040635
HW Version	1351N11A
SW Version	Xiaomi HyperOS 1.0
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 maximum EIRP is calculated from max output power and antenna gain, only the maximum EIRP of Ant.5 is shown in the report.
3. The device supports B48(1T4R) SRS resources on ant.5/6/7/8, only the test data of worst ant.5 is showed in the report according to the maximum power.



### 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	0.1422	4M48G7D	0.1038	4M49W7D
10	3555~3695	0.1406	9M07G7D	0.1076	8M99W7D
15	3557.5~3692.5	0.1413	13M5G7D	0.1081	13M3W7D
20	3560~3690	0.1419	17M9G7D	0.1069	17M9W7D

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

### 1.5 Testing Site

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

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People’s Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-SZ	CN1256	421272

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH04-SZ	CN1256	421272

### 1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-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.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

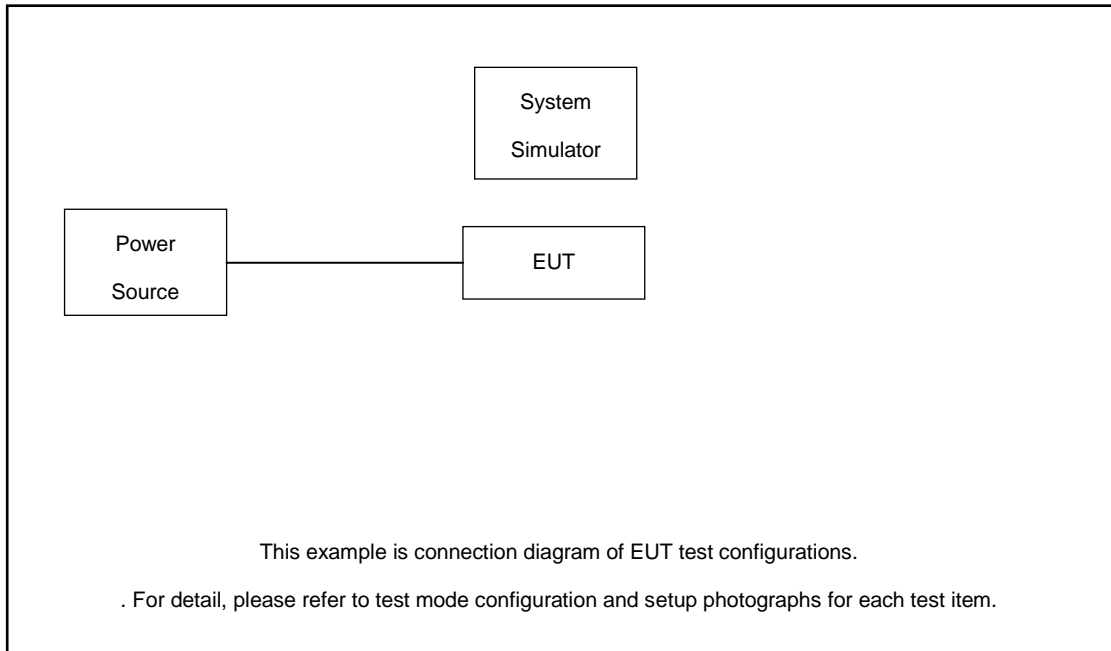
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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

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



## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 5.5 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 5.5 + 10 = 15.5 \text{ (dB)}
 \end{aligned}$$



## 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

### 3 Conducted Test Items

#### 3.1 Measuring Instruments

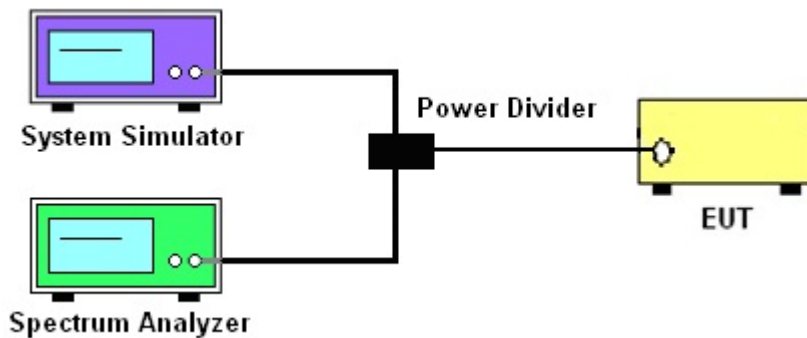
See list of measuring instruments of this test report.

#### 3.2 Test Setup

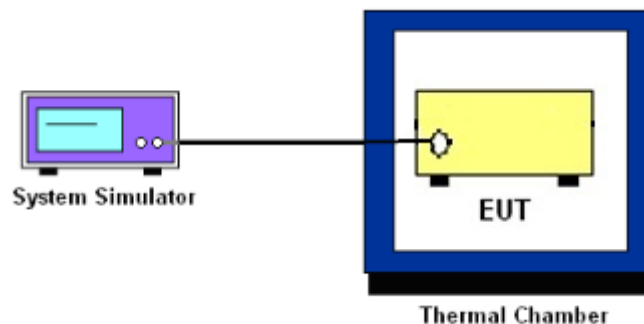
##### 3.2.1 Conducted Output Power



##### 3.2.2 PSD, Peak-to-Average Ratio, 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

**Note:** the test report only show total channel power results, as the total channel power is less than the EIRP limit/10MHz, thus any 10MHz power will also comply with the EIRP/10MHz limit.

#### 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  $\leq -13$  dBm/MHz

Greater than B MHz above and below the assigned channel  $\leq -25$  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. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency

#### 3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  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  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . 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.

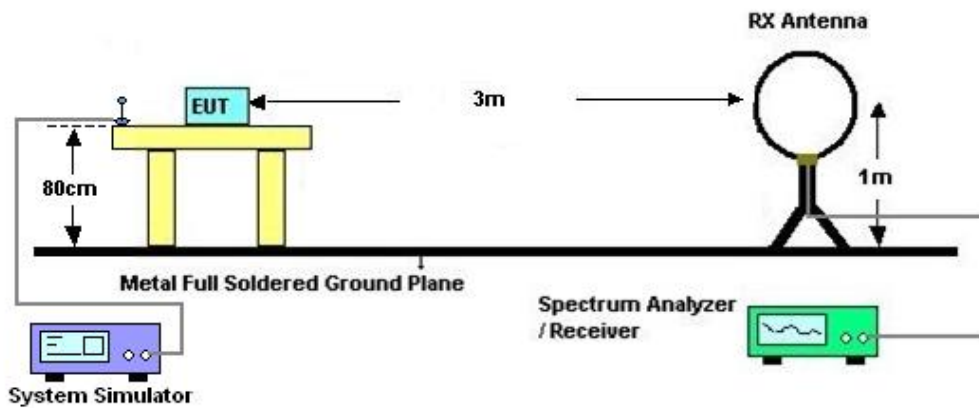
## 4 Radiated Test Items

### 4.1 Measuring Instruments

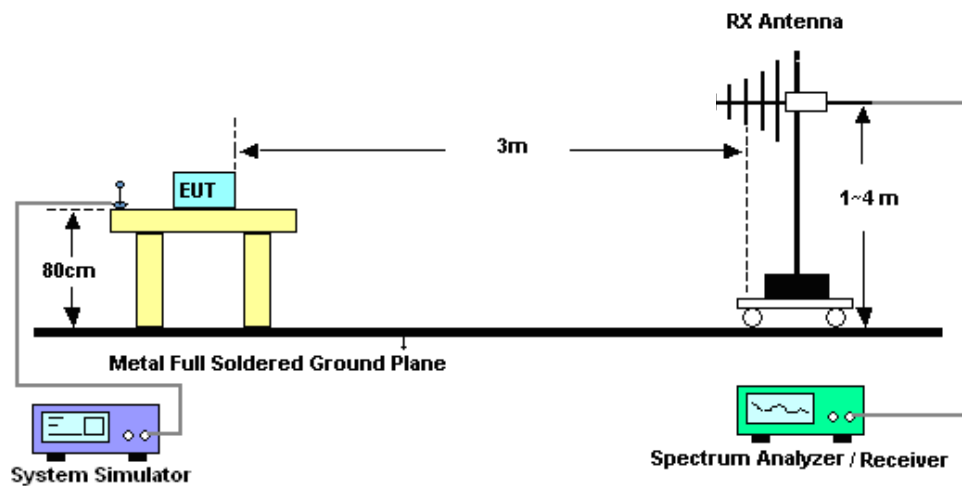
See list of measuring instruments of this test report.

### 4.2 Test Setup

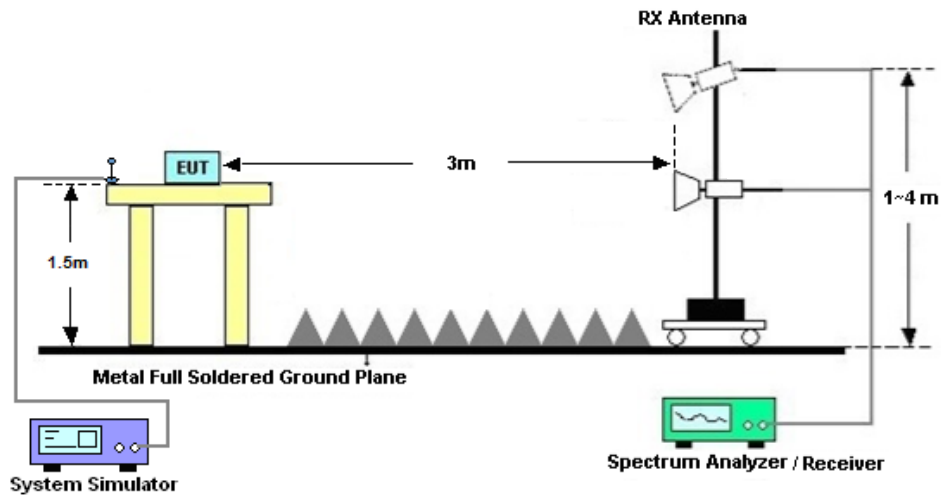
#### 4.2.1 For radiated test below 30MHz



#### 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.  
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
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	101078	10Hz~40GHz	Apr. 06, 2023	Sep. 22, 2023~ Sep. 26, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2022	Sep. 22, 2023~ Sep. 26, 2023	Dec. 24, 2023	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Sep. 22, 2023~ Sep. 26, 2023	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Oct. 11, 2023	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 14, 2023	Oct. 11, 2023	May 13, 2024	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Oct. 11, 2023	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Oct. 11, 2023	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Nov. 10, 2022	Oct. 11, 2023	Nov. 09, 2023	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 11, 2023	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 11, 2023	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required



## 6 Measurement Uncertainty

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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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))	3.1dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9dB
---	-------

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



### Appendix A. Test Results of Conducted Test

Test Engineer :	Jason Zhang	Temperature :	24~26°C
		Relative Humidity :	50~53%

### Conducted Output Power(Average power)

#### LTE Band 48\_Ant.5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	for EMC Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				55340	55990	56640
Frequency (MHz)				3560	3625	3690
20	QPSK	1	0	21.29	21.26	21.25
20	QPSK	1	49	21.17	21.06	21.30
20	QPSK	1	99	21.15	21.09	21.12
20	QPSK	50	0	20.19	20.16	20.04
20	QPSK	50	24	20.13	19.93	20.06
20	QPSK	50	50	20.13	20.09	20.09
20	QPSK	100	0	20.13	20.19	20.20
20	16QAM	1	0	19.96	20.09	19.89
20	16QAM	1	49	19.92	20.12	19.94
20	16QAM	1	99	20.00	20.02	20.04
20	16QAM	50	0	19.05	19.15	19.15
20	16QAM	50	24	19.24	19.01	19.01
20	16QAM	50	50	19.10	19.16	19.04
20	16QAM	100	0	19.22	19.19	19.15
20	64QAM	1	0	19.09	19.23	18.88
20	64QAM	1	49	19.06	19.19	19.09
20	64QAM	1	99	19.05	18.93	19.02
20	64QAM	50	0	18.18	18.26	18.08
20	64QAM	50	24	17.95	18.06	17.98
20	64QAM	50	50	18.00	18.28	18.18
20	64QAM	100	0	18.17	18.07	18.14
20	256QAM	1	0	16.46	16.31	16.41
20	256QAM	1	49	16.23	16.23	16.25
20	256QAM	1	99	16.27	16.17	16.23
20	256QAM	50	0	16.11	16.07	15.89
20	256QAM	50	24	16.24	16.13	16.03
20	256QAM	50	50	15.99	16.00	15.95
20	256QAM	100	0	16.13	15.97	16.19
Channel				55315	55990	56665
Frequency (MHz)				3557.5	3625	3692.5
15	QPSK	1	0	21.31	21.28	21.22
15	QPSK	1	37	21.09	21.17	21.30
15	QPSK	1	74	21.23	21.11	21.15
15	QPSK	36	0	20.22	20.25	20.01
15	QPSK	36	20	20.16	19.90	20.01



15	QPSK	36	39	20.16	20.22	20.12
15	QPSK	75	0	20.07	20.29	20.16
15	16QAM	1	0	19.98	19.98	19.87
15	16QAM	1	37	19.90	20.16	19.93
15	16QAM	1	74	20.05	20.01	20.01
15	16QAM	36	0	19.08	19.09	19.12
15	16QAM	36	20	19.15	19.02	18.90
15	16QAM	36	39	19.06	19.19	18.98
15	16QAM	75	0	19.12	19.21	19.08
15	64QAM	1	0	19.15	19.15	18.95
15	64QAM	1	37	19.05	19.20	19.06
15	64QAM	1	74	19.07	18.90	19.02
15	64QAM	36	0	18.22	18.39	18.13
15	64QAM	36	20	17.93	17.97	17.97
15	64QAM	36	39	18.10	18.28	18.18
15	64QAM	75	0	18.13	18.20	18.14
15	256QAM	1	0	16.43	16.36	16.32
15	256QAM	1	37	16.23	16.26	16.27
15	256QAM	1	74	16.32	16.30	16.25
15	256QAM	36	0	16.03	16.07	15.96
15	256QAM	36	20	16.19	15.99	16.00
15	256QAM	36	39	16.03	16.01	15.96
15	256QAM	75	0	16.13	16.03	16.10
Channel				55290	55990	56690
Frequency (MHz)				3555	3625	3695
10	QPSK	1	0	21.25	21.21	21.19
10	QPSK	1	25	21.16	21.15	21.32
10	QPSK	1	49	21.17	21.16	21.13
10	QPSK	25	0	20.17	20.13	20.03
10	QPSK	25	12	20.19	19.98	20.05
10	QPSK	25	25	20.16	20.09	20.10
10	QPSK	50	0	20.13	20.19	20.15
10	16QAM	1	0	19.97	19.95	19.97
10	16QAM	1	25	19.87	20.19	19.89
10	16QAM	1	49	20.06	20.06	20.03
10	16QAM	25	0	19.08	19.11	19.10
10	16QAM	25	12	19.17	19.01	18.96
10	16QAM	25	25	19.06	19.05	19.07
10	16QAM	50	0	19.15	19.11	19.11
10	64QAM	1	0	19.11	19.25	18.90
10	64QAM	1	25	19.00	19.18	19.03
10	64QAM	1	49	19.03	18.87	18.91
10	64QAM	25	0	18.24	18.31	18.09
10	64QAM	25	12	17.91	17.94	17.99
10	64QAM	25	25	18.05	18.20	18.17
10	64QAM	50	0	18.13	18.14	18.19
10	256QAM	1	0	16.44	16.44	16.35
10	256QAM	1	25	16.31	16.35	16.22
10	256QAM	1	49	16.23	16.26	16.28
10	256QAM	25	0	16.02	16.07	15.99





10	256QAM	25	12	16.21	16.13	15.98
10	256QAM	25	25	15.97	16.01	16.00
10	256QAM	50	0	16.14	16.05	16.11
Channel				55265	55990	56715
Frequency (MHz)				3552.5	3625	3697.5
5	QPSK	1	0	21.14	21.31	21.20
5	QPSK	1	12	21.10	21.15	21.23
5	QPSK	1	24	21.10	21.04	21.04
5	QPSK	12	0	20.15	20.20	19.92
5	QPSK	12	7	20.07	20.00	19.94
5	QPSK	12	13	20.08	20.22	19.95
5	QPSK	25	0	20.04	20.20	20.07
5	16QAM	1	0	19.93	20.08	19.82
5	16QAM	1	12	19.78	20.15	19.82
5	16QAM	1	24	19.93	19.94	19.91
5	16QAM	12	0	18.96	19.20	19.03
5	16QAM	12	7	19.16	19.10	18.95
5	16QAM	12	13	19.01	19.05	18.94
5	16QAM	25	0	19.10	19.20	19.07
5	64QAM	1	0	19.04	19.22	18.75
5	64QAM	1	12	18.93	19.15	19.04
5	64QAM	1	24	18.92	18.97	18.97
5	64QAM	12	0	18.09	18.25	18.02
5	64QAM	12	7	17.85	17.93	17.91
5	64QAM	12	13	17.91	18.21	18.08
5	64QAM	25	0	18.07	18.11	18.03
5	256QAM	1	0	16.41	16.39	16.37
5	256QAM	1	12	16.18	16.36	16.12
5	256QAM	1	24	16.21	16.30	16.19
5	256QAM	12	0	15.99	16.10	15.83
5	256QAM	12	7	16.21	15.97	15.97
5	256QAM	12	13	15.87	16.07	15.87
5	256QAM	25	0	15.99	16.04	16.14



**EIRP**

**Note:** the test report only show total channel power results, as the total channel power is less than the EIRP limit/10MHz, thus any 10MHz power will also comply with the EIRP/10MHz limit.

LTE Band 48 (GT - LC = -1.80 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	23.25	23.33	23.19	23.22	23.28	23.17	23.19	23.30	23.20
Conducted Power (Watts/10MHz)	0.2113	0.2153	0.2084	0.2099	0.2128	0.2075	0.2084	0.2138	0.2089
EIRP (dBm/10MHz)	21.45	21.53	21.39	21.42	21.48	21.37	21.39	21.50	21.40
EIRP (Watts/10MHz)	0.1396	0.1422	0.1377	0.1387	0.1406	0.1371	0.1377	0.1413	0.1380

LTE Band 48 (GT - LC = -1.80 dB) QPSK			
Bandwidth	20M		
Channel	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	23.32	23.31	23.27
Conducted Power (Watts/10MHz)	0.2148	0.2143	0.2123
EIRP (dBm/10MHz)	21.52	21.51	21.47
EIRP (Watts/10MHz)	0.1419	0.1416	0.1403



LTE Band 48 (GT - LC = -1.80 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	21.91	21.96	21.80	21.91	22.12	21.84	21.90	22.14	21.92
Conducted Power (Watts/10MHz)	0.1552	0.1570	0.1514	0.1552	0.1629	0.1528	0.1549	0.1637	0.1556
EIRP (dBm/10MHz)	20.11	20.16	20.00	20.11	20.32	20.04	20.10	20.34	20.12
EIRP (Watts/10MHz)	0.1026	0.1038	0.1000	0.1026	0.1076	0.1009	0.1023	0.1081	0.1028

LTE Band 48 (GT - LC = -1.80 dB) 16QAM			
Bandwidth	20M		
Channel	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	21.97	22.09	21.94
Conducted Power (Watts/10MHz)	0.1574	0.1618	0.1563
EIRP (dBm/10MHz)	20.17	20.29	20.14
EIRP (Watts/10MHz)	0.1040	0.1069	0.1033



LTE Band 48 (GT - LC = -1.80 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	20.88	21.15	20.83	20.96	21.16	21.00	20.81	21.12	20.85
Conducted Power (Watts/10MHz)	0.1225	0.1303	0.1211	0.1247	0.1306	0.1259	0.1205	0.1294	0.1216
EIRP (dBm/10MHz)	19.08	19.35	19.03	19.16	19.36	19.20	19.01	19.32	19.05
EIRP (Watts/10MHz)	0.0809	0.0861	0.0800	0.0824	0.0863	0.0832	0.0796	0.0855	0.0804

LTE Band 48 (GT - LC = -1.80 dB) 64QAM			
Bandwidth	20M		
Channel	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	21.02	21.06	21.03
Conducted Power (Watts/10MHz)	0.1265	0.1276	0.1268
EIRP (dBm/10MHz)	19.22	19.26	19.23
EIRP (Watts/10MHz)	0.0836	0.0843	0.0838



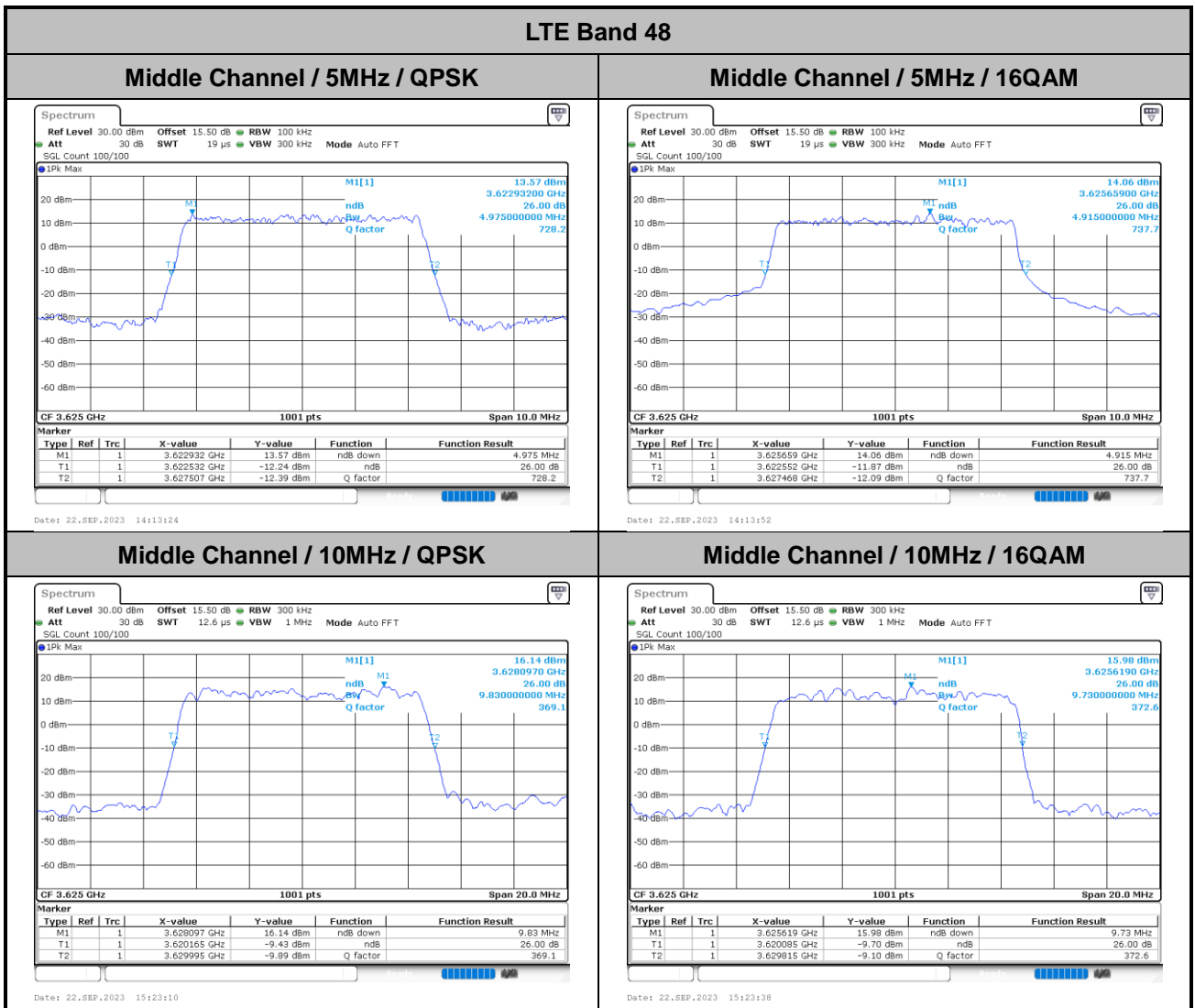
LTE Band 48 (GT - LC = -1.80 dB) 256QAM									
Bandwidth	5M			10M			15M		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	18.33	18.45	18.22	18.33	18.39	18.27	18.25	18.37	18.18
Conducted Power (Watts/10MHz)	0.0681	0.0700	0.0664	0.0681	0.0690	0.0671	0.0668	0.0687	0.0658
EIRP (dBm/10MHz)	16.53	16.65	16.42	16.53	16.59	16.47	16.45	16.57	16.38
EIRP (Watts/10MHz)	0.0450	0.0462	0.0439	0.0450	0.0456	0.0444	0.0442	0.0454	0.0435

LTE Band 48 (GT - LC = -1.80 dB) 256QAM			
Bandwidth	20M		
Channel	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	18.38	18.43	18.31
Conducted Power (Watts/10MHz)	0.0689	0.0697	0.0678
EIRP (dBm/10MHz)	16.58	16.63	16.51
EIRP (Watts/10MHz)	0.0455	0.0460	0.0448



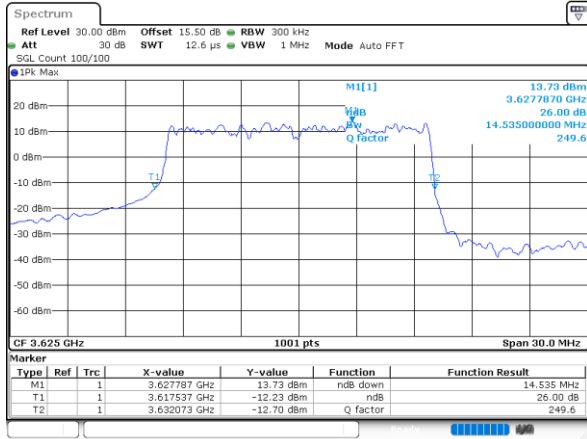
# 26dB Bandwidth

Mode	LTE Band 48 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.98	4.92	9.83	9.73	14.54	14.36	18.86	18.66



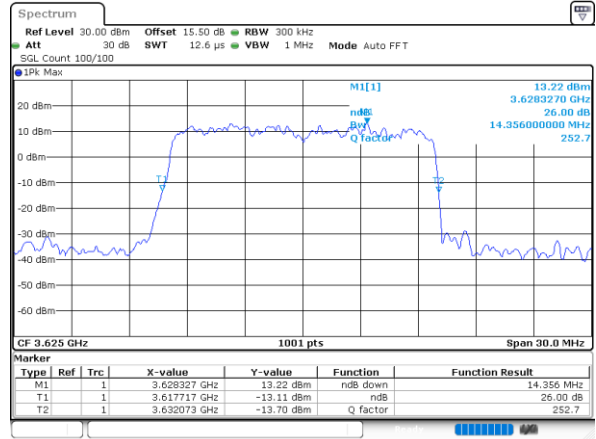


Middle Channel / 15MHz / QPSK



Date: 22\_SEP\_2023 20:10:08

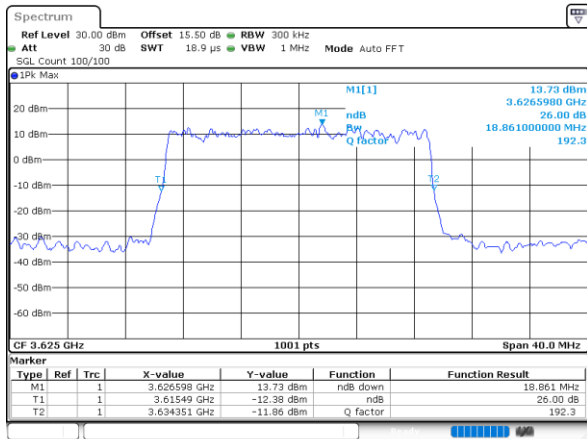
Middle Channel / 15MHz / 16QAM



Date: 22\_SEP\_2023 20:10:36

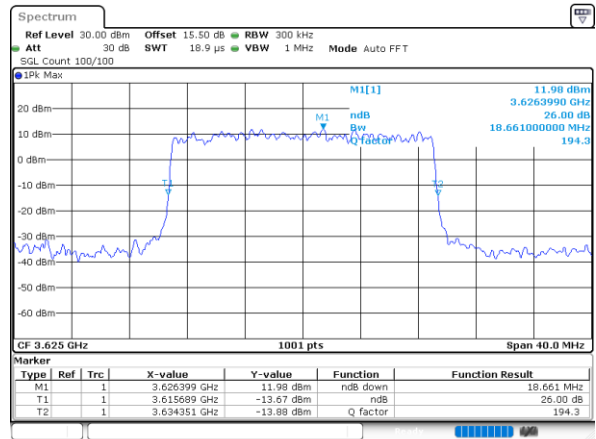
LTE Band 48

Middle Channel / 20MHz / QPSK



Date: 22\_SEP\_2023 19:01:32

Middle Channel / 20MHz / 16QAM

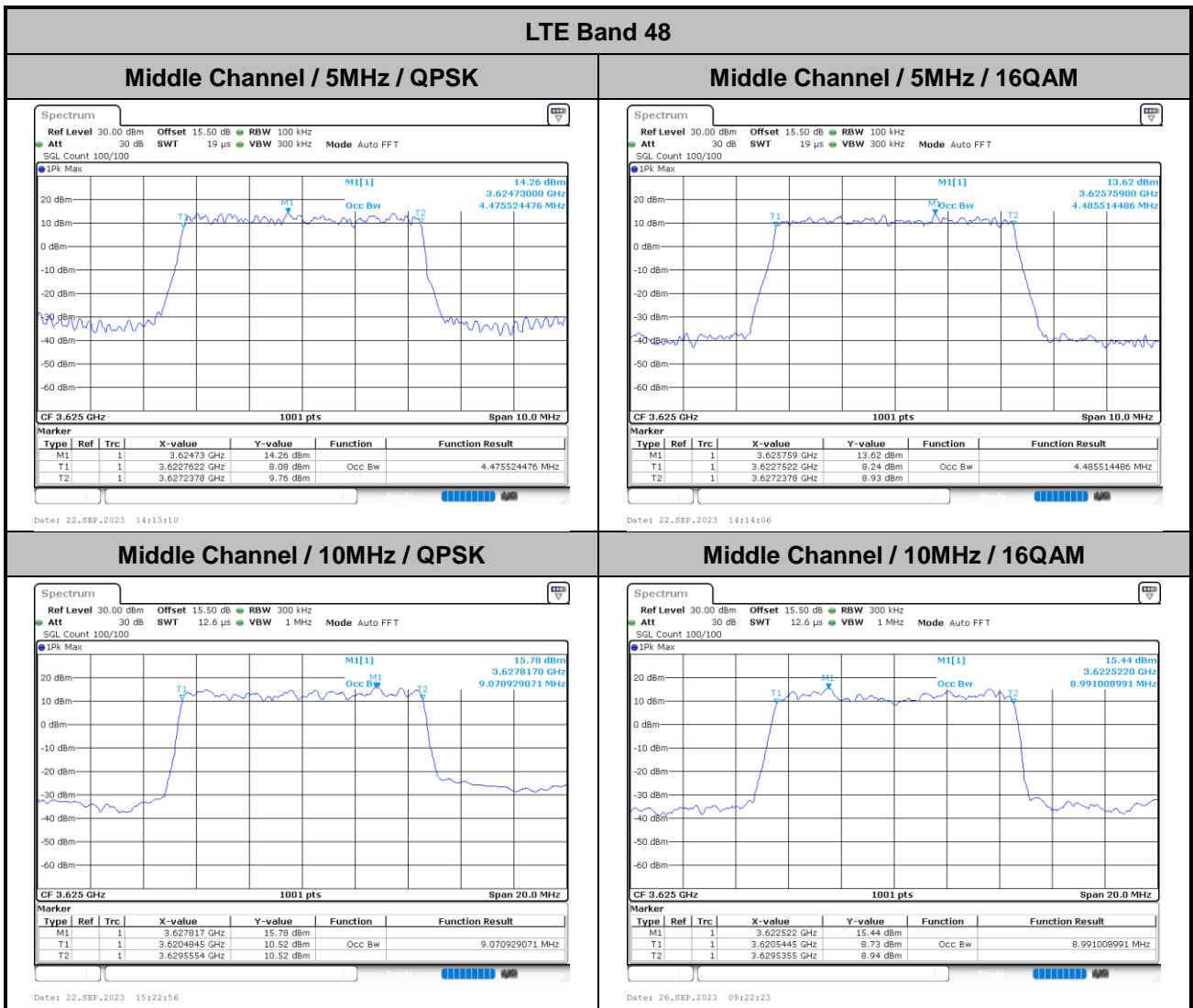


Date: 22\_SEP\_2023 19:01:04



# Occupied Bandwidth

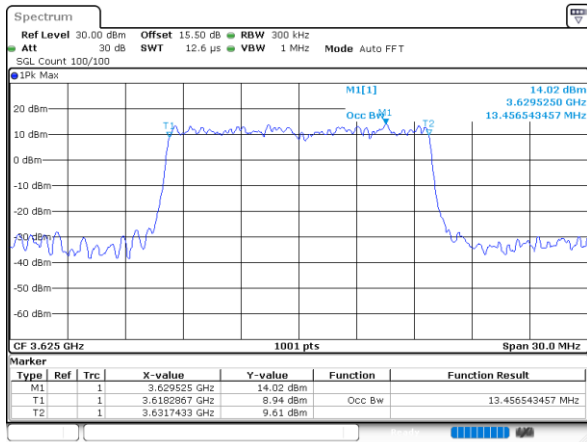
Mode	LTE Band 48 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.49	9.07	8.99	13.46	13.34	17.90	17.86





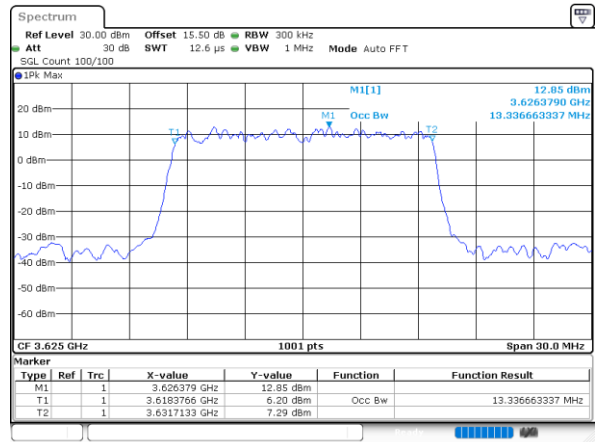


Middle Channel / 15MHz / QPSK



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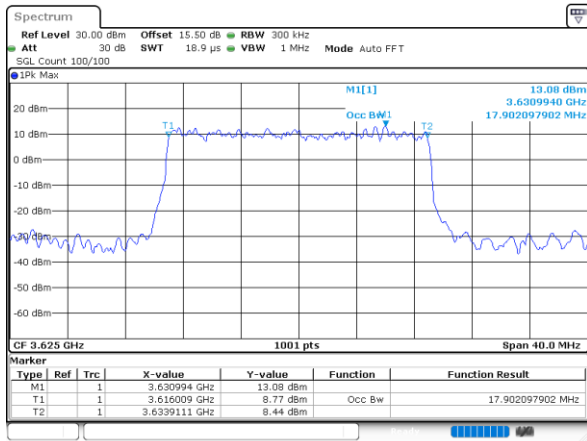
Middle Channel / 15MHz / 16QAM



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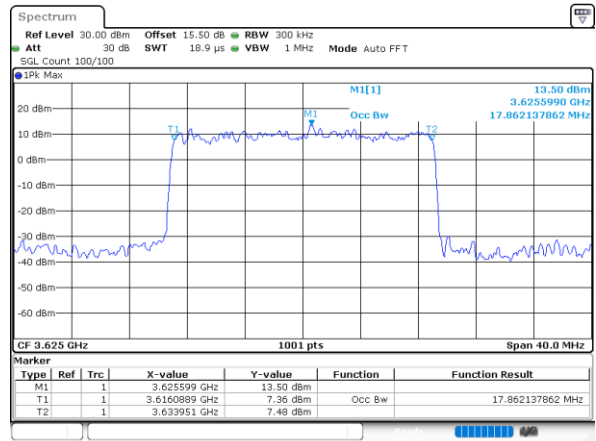
LTE Band 48

Middle Channel / 20MHz / QPSK



Date: 22\_SEP.2023 18:01:46

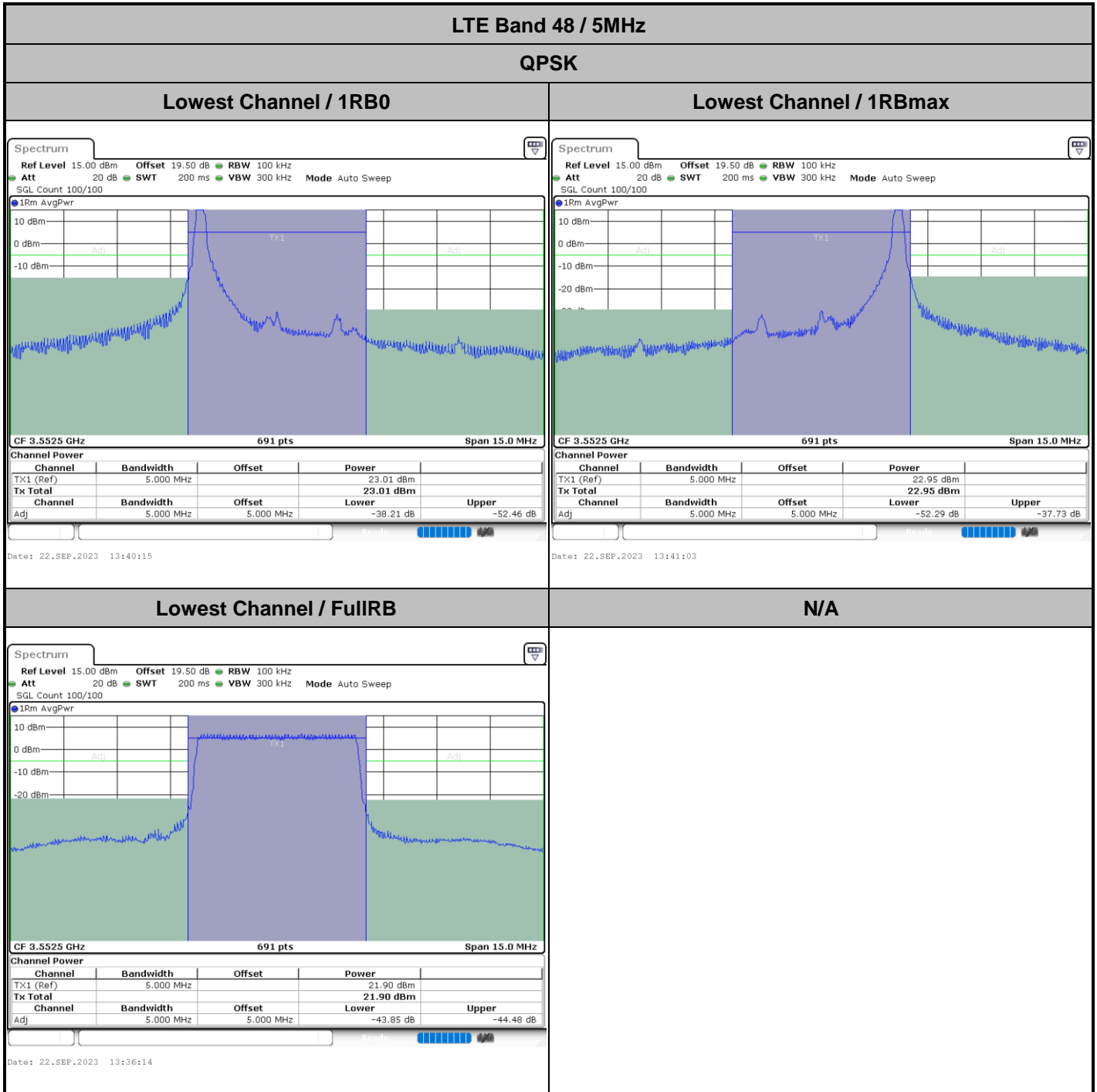
Middle Channel / 20MHz / 16QAM



Date: 22\_SEP.2023 18:00:50



**ACLR**

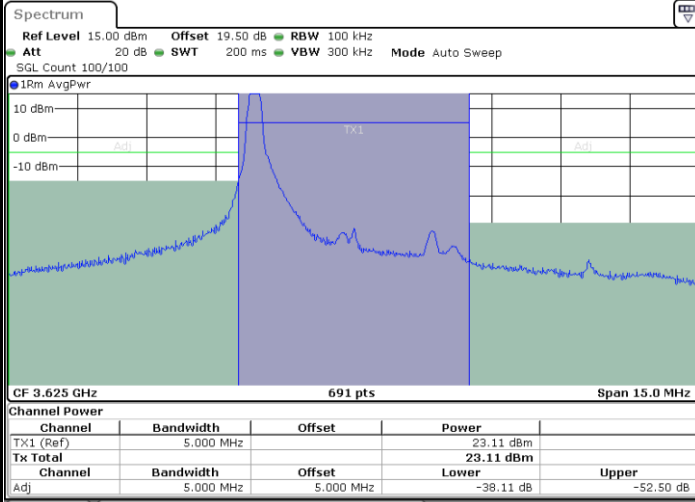




LTE Band 48 / 5MHz

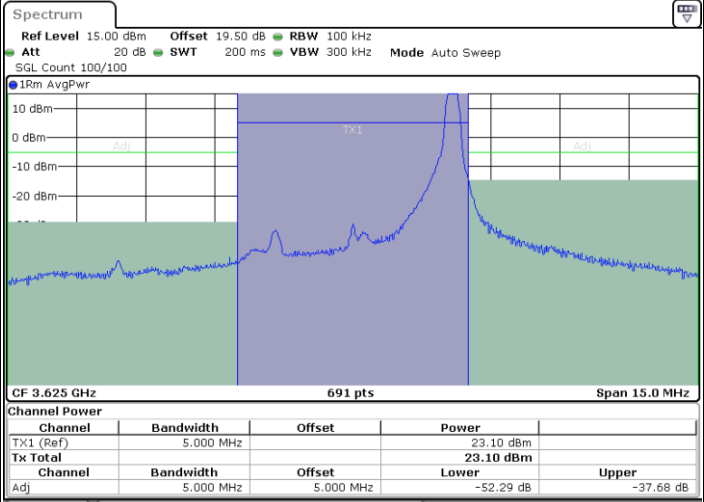
QPSK

Middle Channel / 1RB0



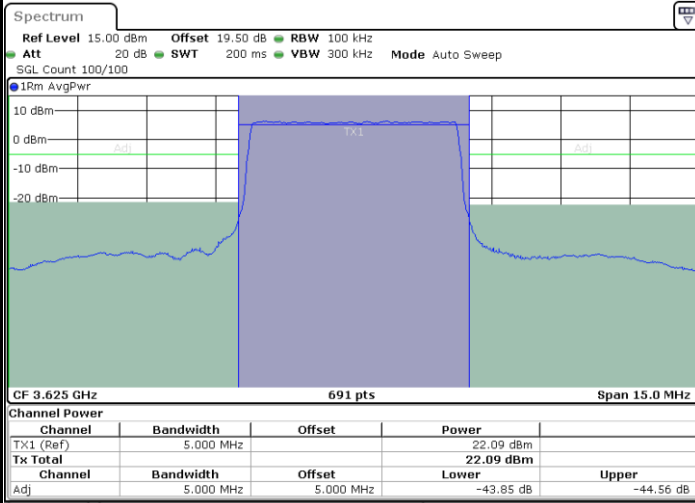
Date: 22.SEP.2023 13:58:27

Middle Channel / 1RBmax



Date: 22.SEP.2023 13:57:39

Middle Channel / FullIRB



Date: 22.SEP.2023 14:02:23

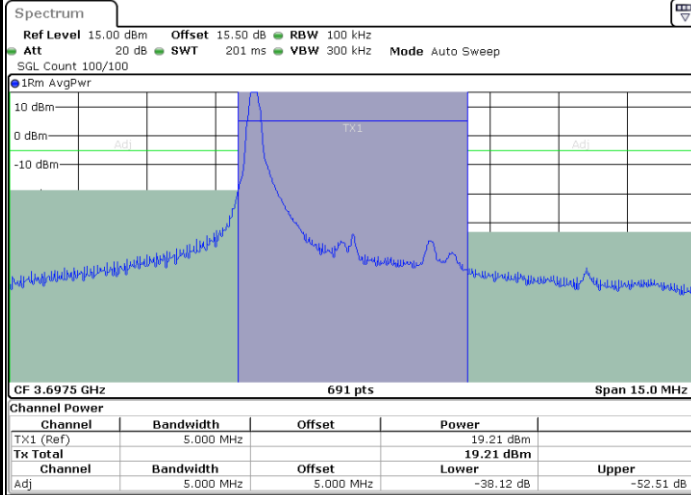
N/A



LTE Band 48 / 5MHz

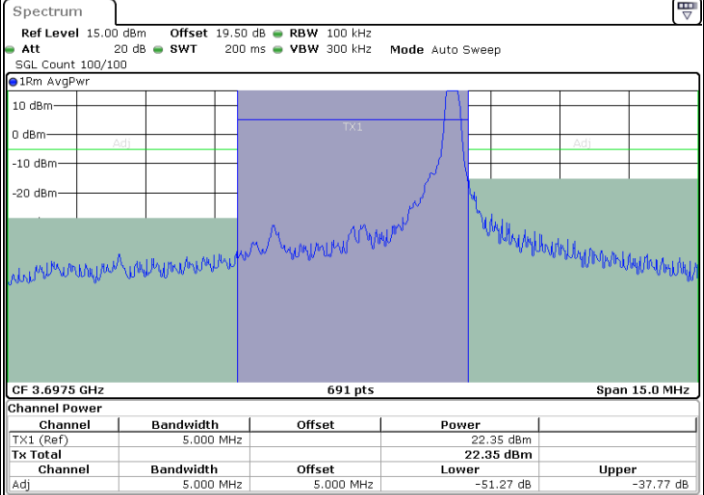
QPSK

Highest Channel / 1RB0



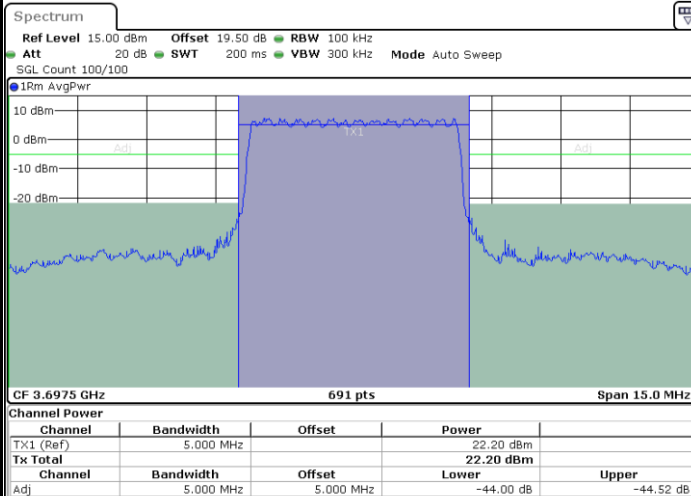
Date: 26.SEP.2023 09:29:23

Highest Channel / 1RBmax



Date: 22.SEP.2023 14:21:15

Highest Channel / FullRB



Date: 22.SEP.2023 14:17:10

N/A

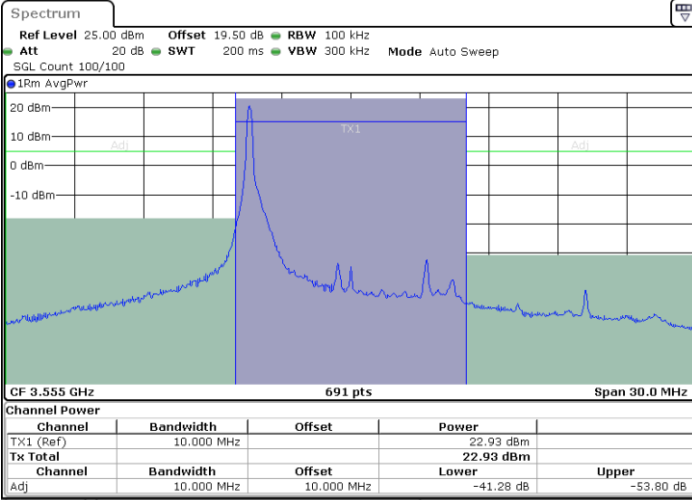


LTE Band 48 / 10MHz

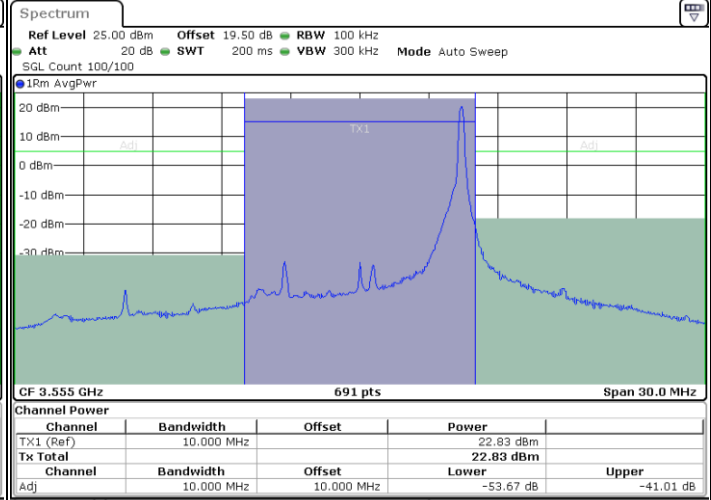
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



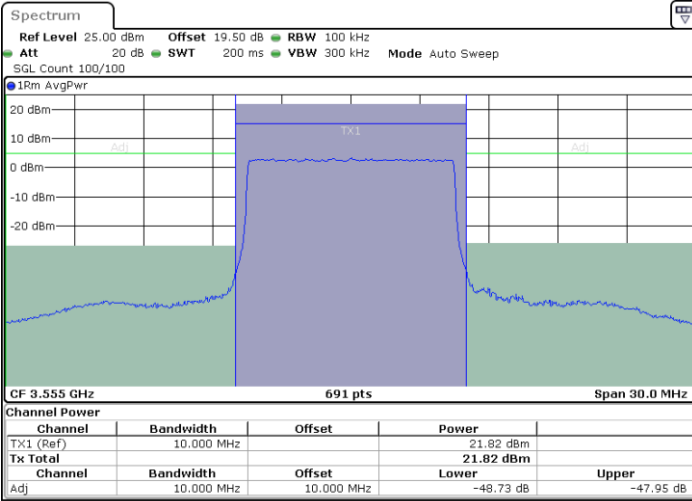
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Date: 22.SEP.2023 14:50:46

Lowest Channel / FullIRB

N/A



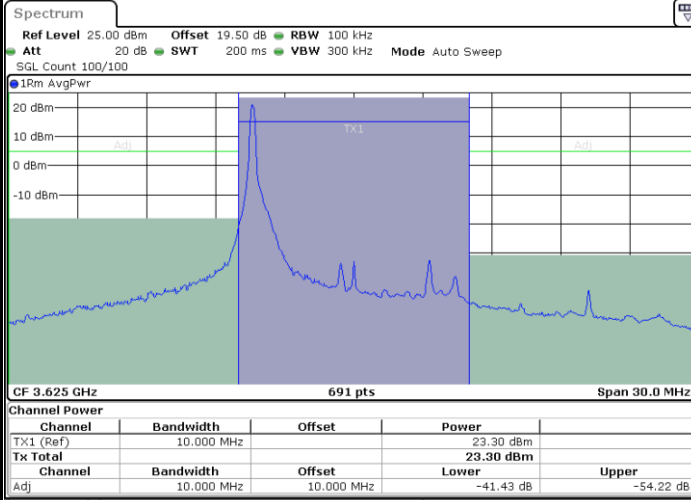
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LTE Band 48 / 10MHz

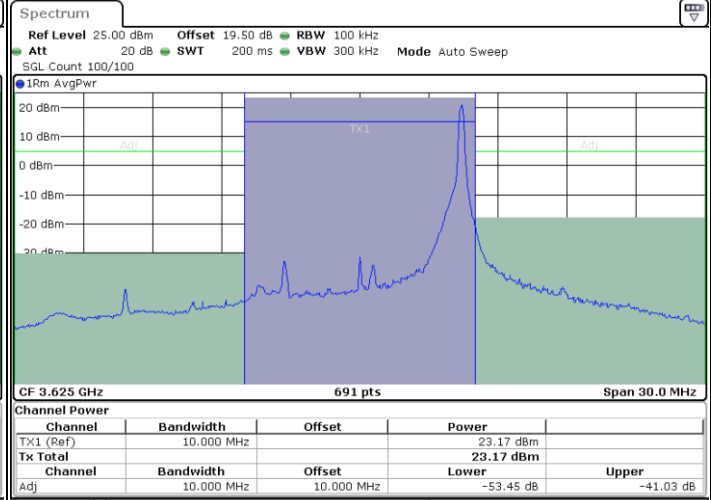
QPSK

Middle Channel / 1RB0



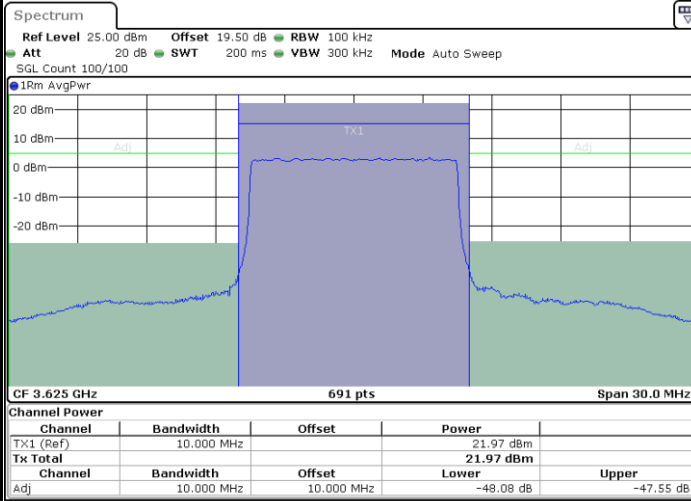
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Middle Channel / 1RBmax



Date: 22.SEP.2023 15:08:33

Middle Channel / FullIRB



Date: 22.SEP.2023 15:12:33

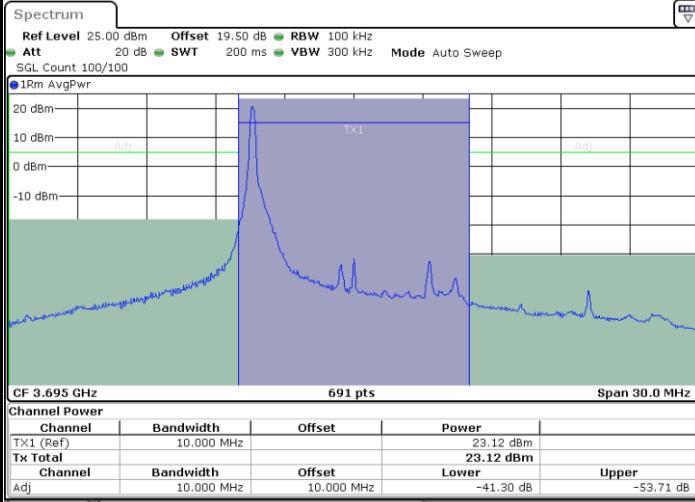
N/A



LTE Band 48 / 10MHz

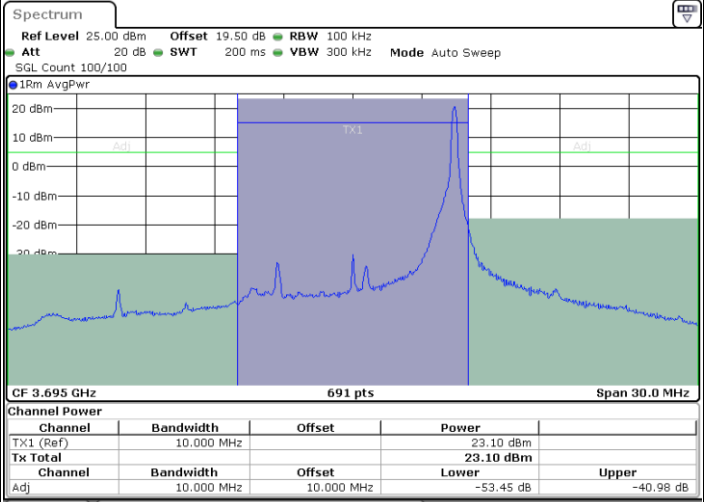
QPSK

Highest Channel / 1RB0



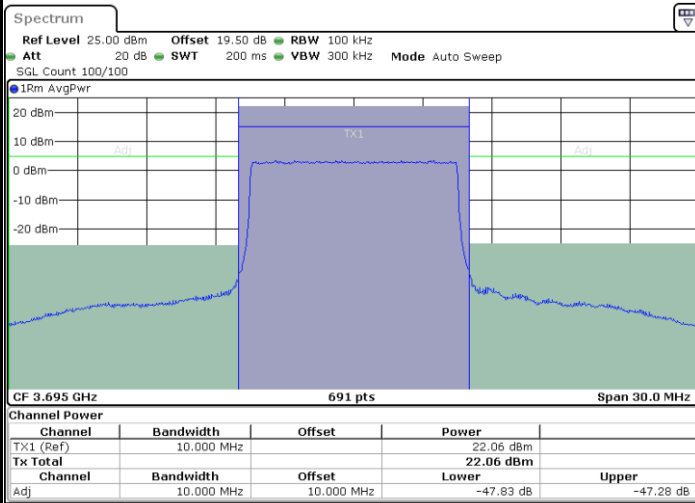
Date: 22.SEP.2023 15:31:50

Highest Channel / 1RBmax



Date: 22.SEP.2023 15:31:01

Highest Channel / FullRB



Date: 22.SEP.2023 15:26:55

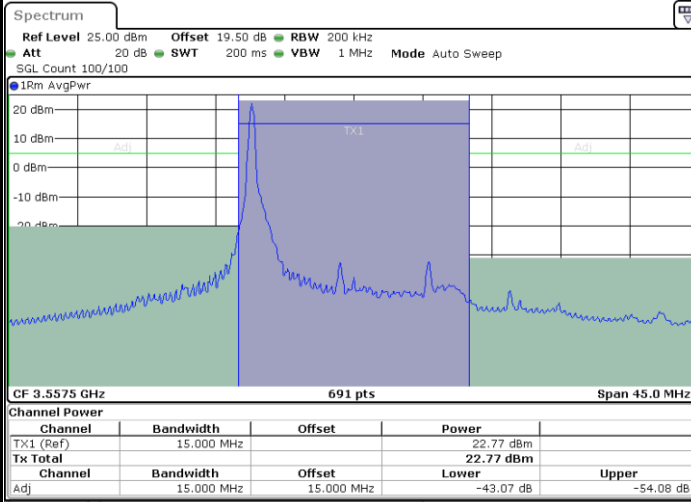
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LTE Band 48 / 15MHz

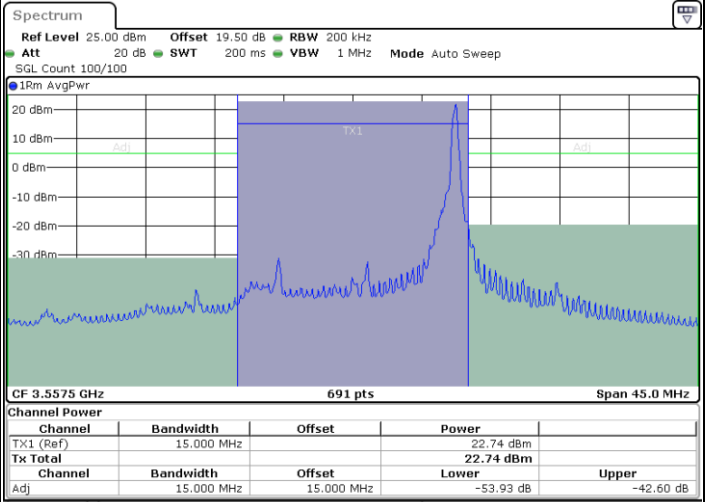
QPSK

Lowest Channel / 1RB0



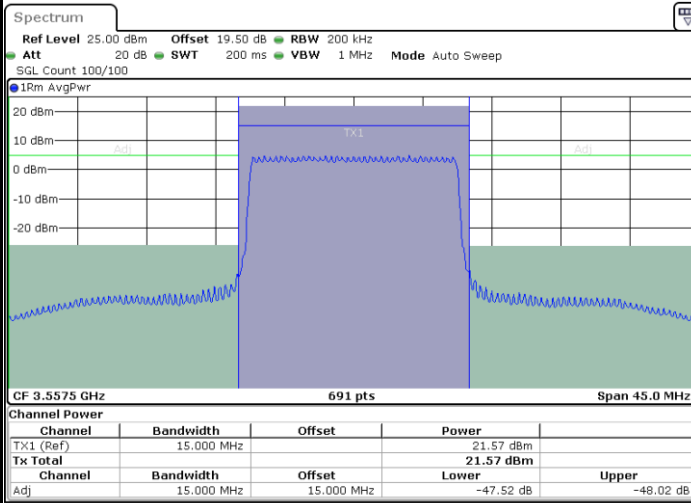
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Lowest Channel / 1RBmax



Date: 22.SEP.2023 15:54:49

Lowest Channel / FullIRB



Date: 22.SEP.2023 15:50:46

N/A



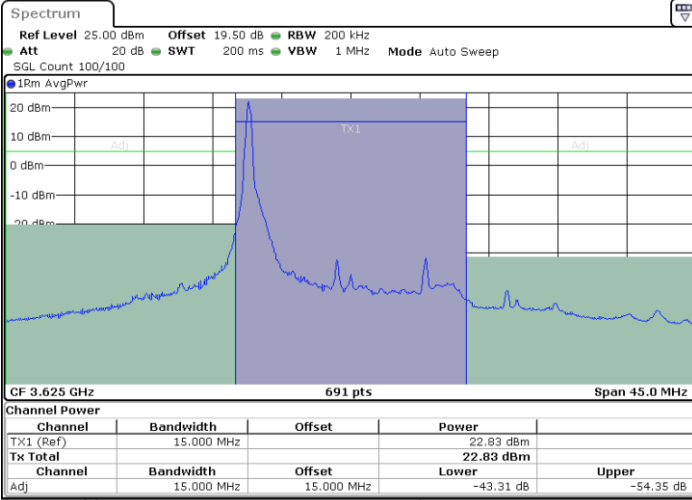


LTE Band 48 / 15MHz

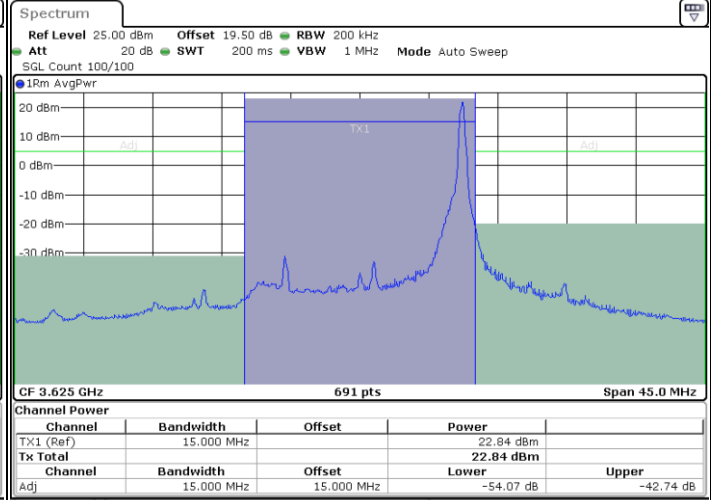
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



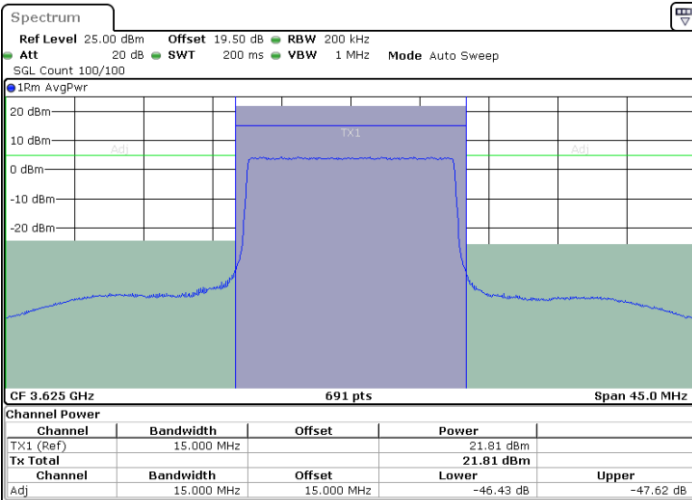
Date: 22.SEP.2023 16:12:56



Date: 22.SEP.2023 16:13:43

Middle Channel / FullIRB

N/A



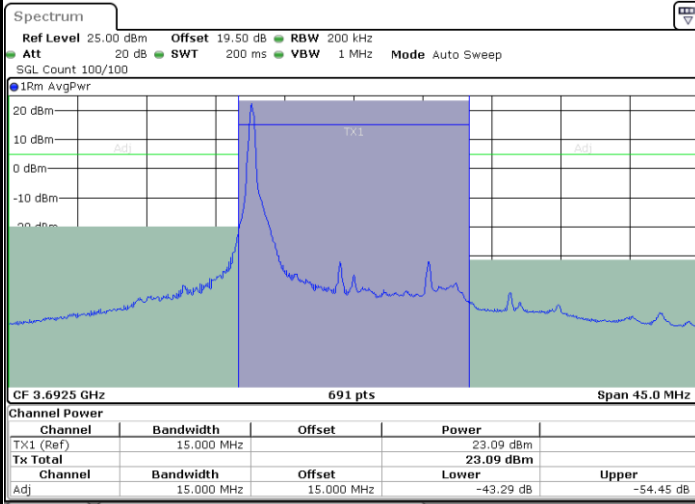
Date: 22.SEP.2023 16:17:42



LTE Band 48 / 15MHz

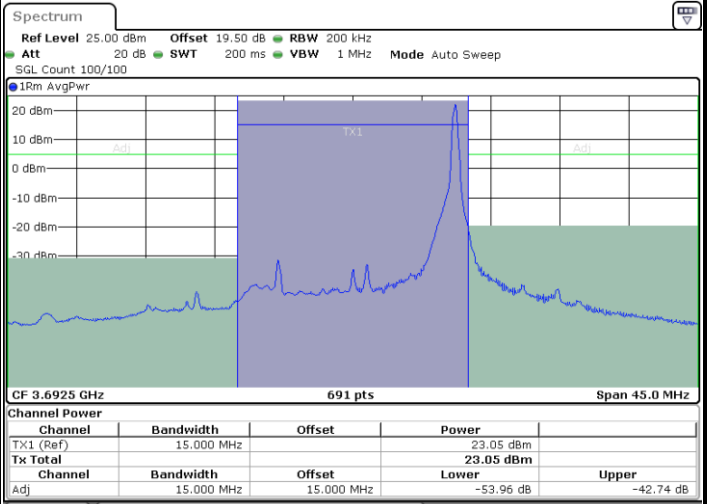
QPSK

Highest Channel / 1RB0



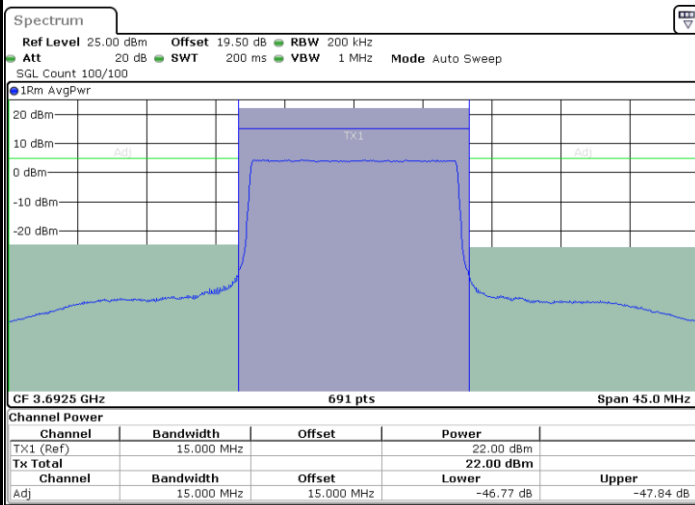
Date: 22.SEP.2023 20:18:49

Highest Channel / 1RBmax



Date: 22.SEP.2023 20:18:00

Highest Channel / FullRB



Date: 22.SEP.2023 20:13:54

N/A

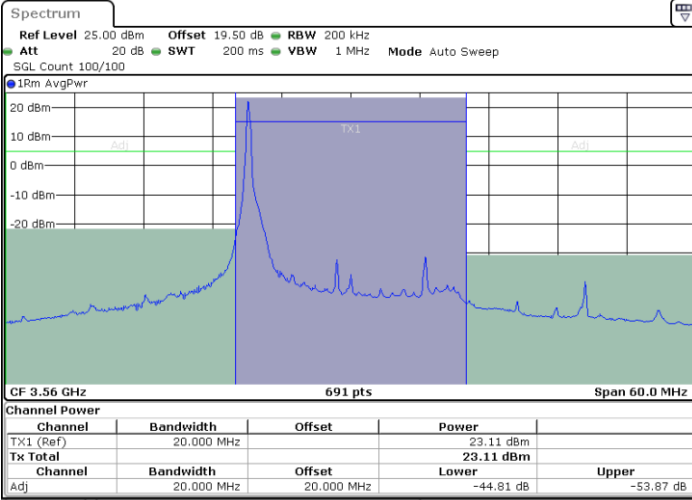


LTE Band 48 / 20MHz

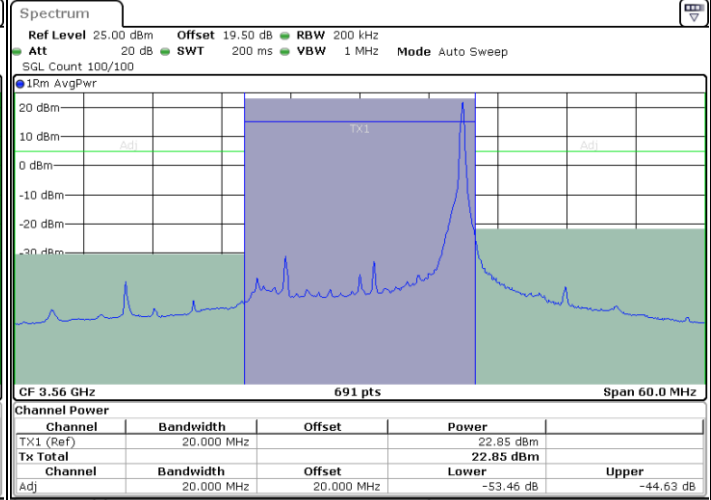
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



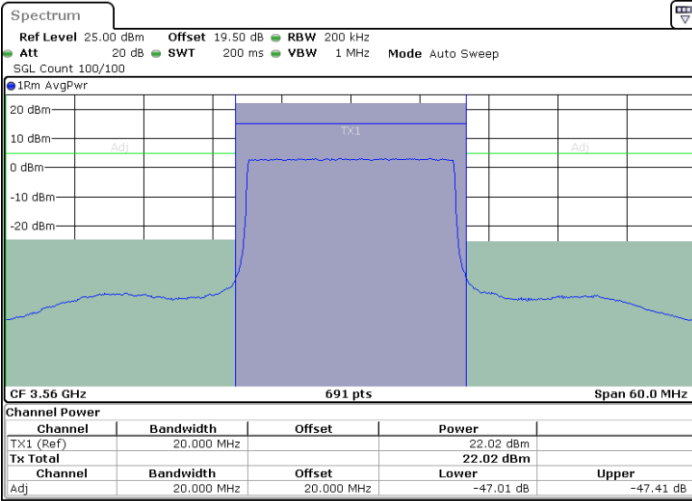
Date: 22.SEP.2023 17:26:15



Date: 22.SEP.2023 17:22:16

Lowest Channel / FullIRB

N/A



Date: 22.SEP.2023 17:19:53

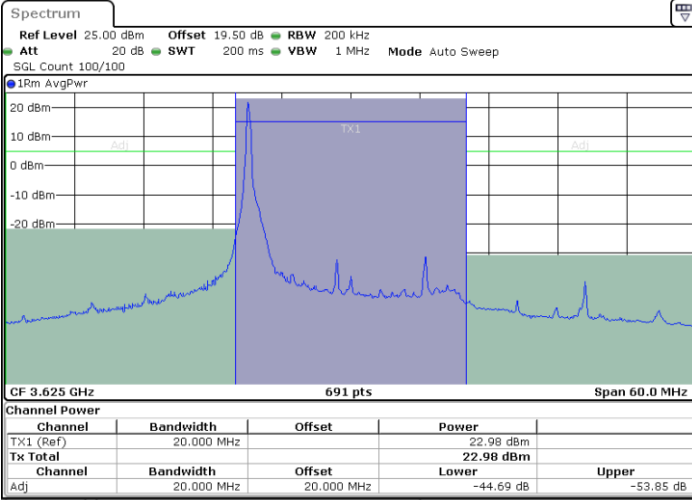


LTE Band 48 / 20MHz

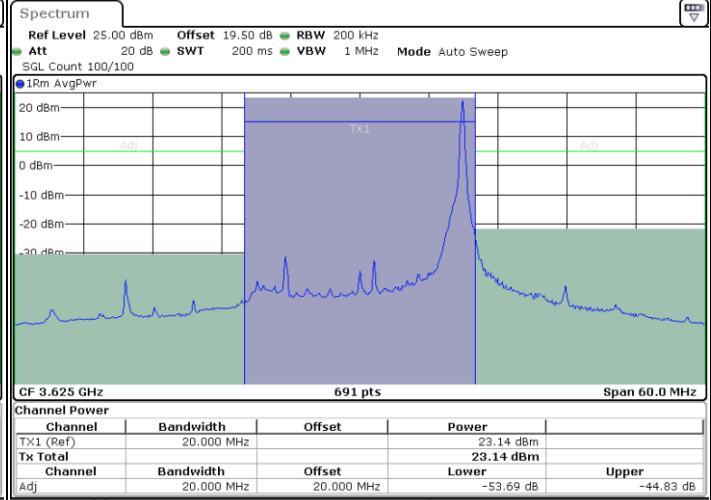
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



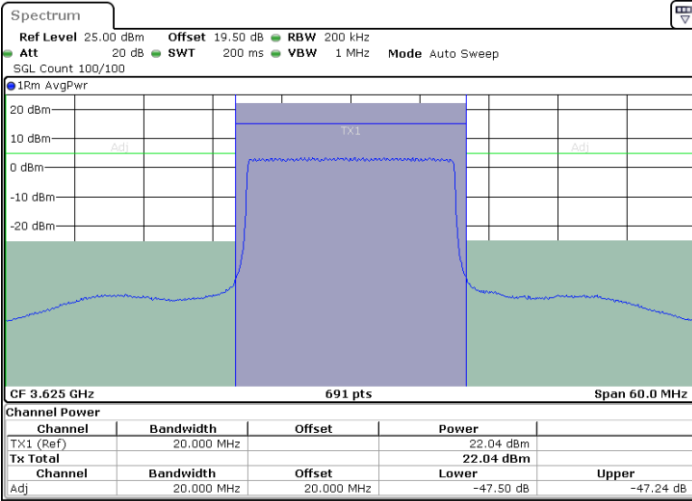
Date: 22.SEP.2023 17:40:19



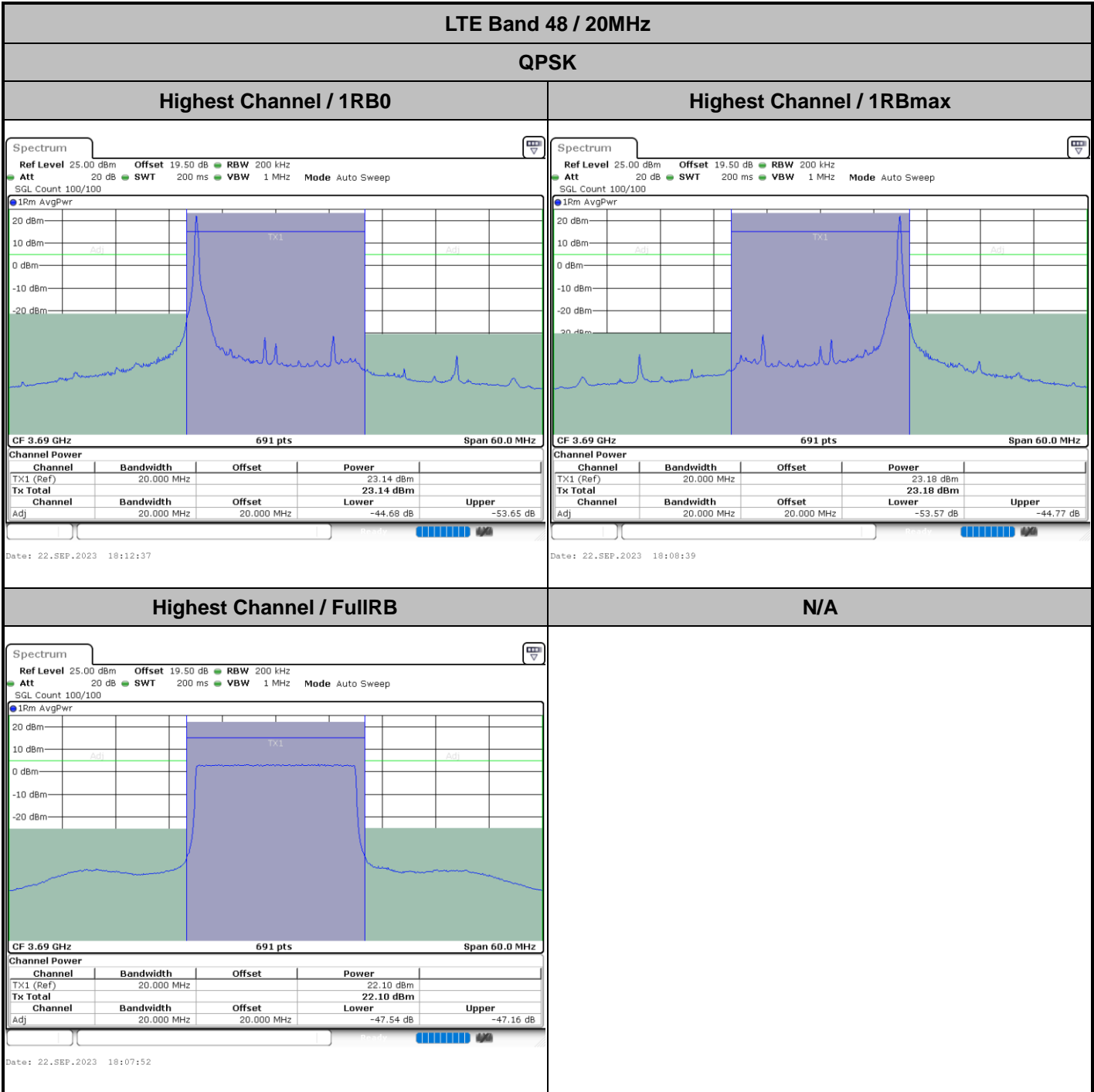
Date: 22.SEP.2023 17:44:14

Middle Channel / FullIRB

N/A



Date: 22.SEP.2023 17:45:01



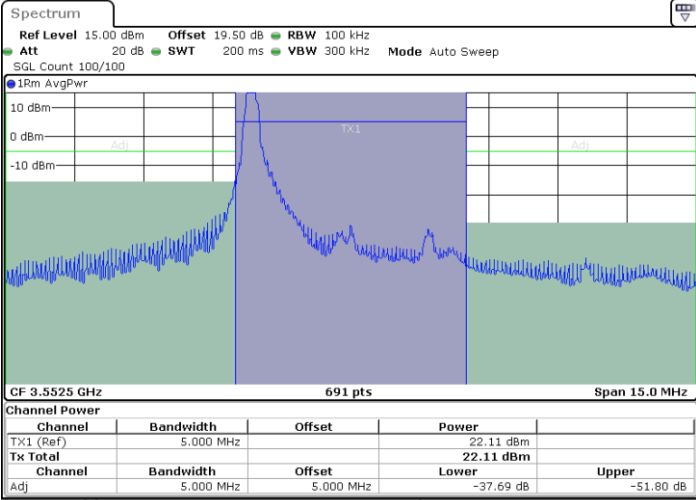


LTE Band 48 / 5MHz

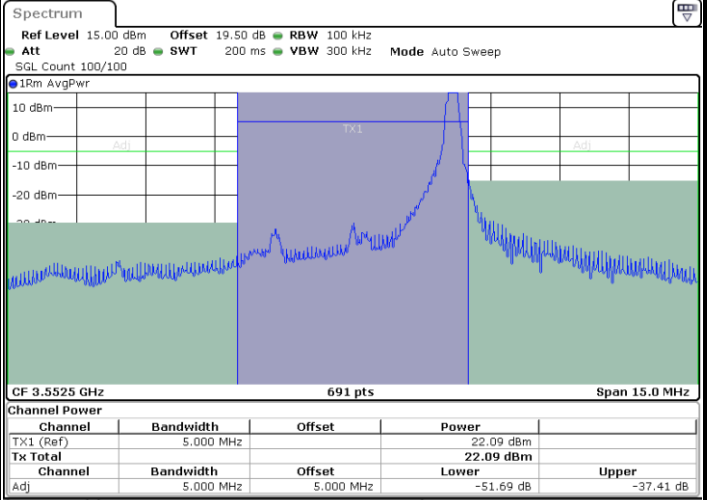
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



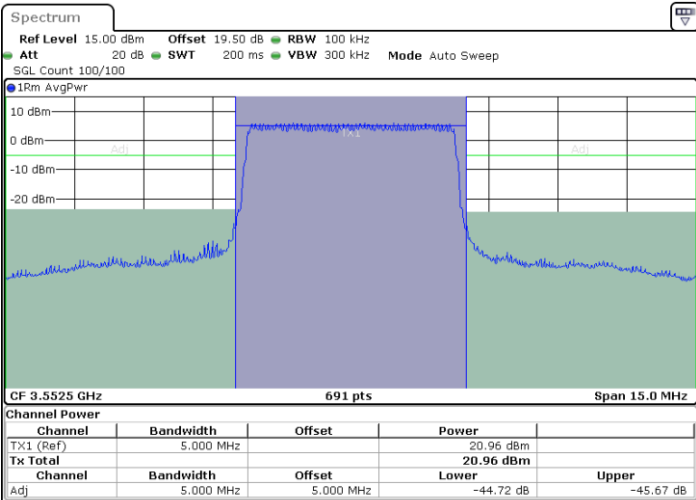
Date: 22.SEP.2023 13:39:27



Date: 22.SEP.2023 13:41:52

Lowest Channel / FullIRB

N/A



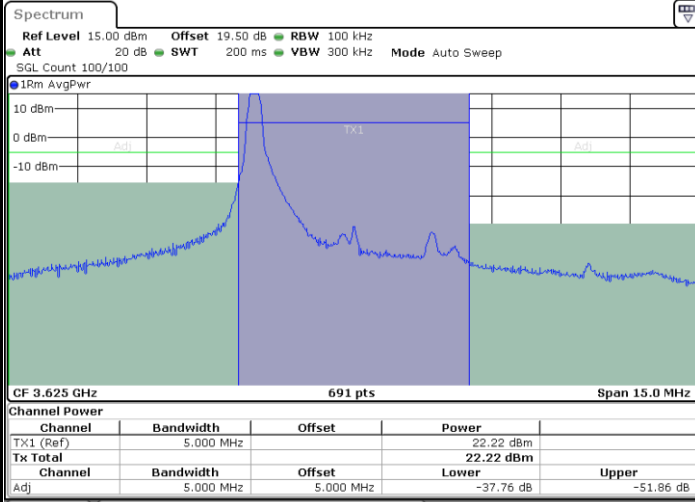
Date: 22.SEP.2023 13:37:02



LTE Band 48 / 5MHz

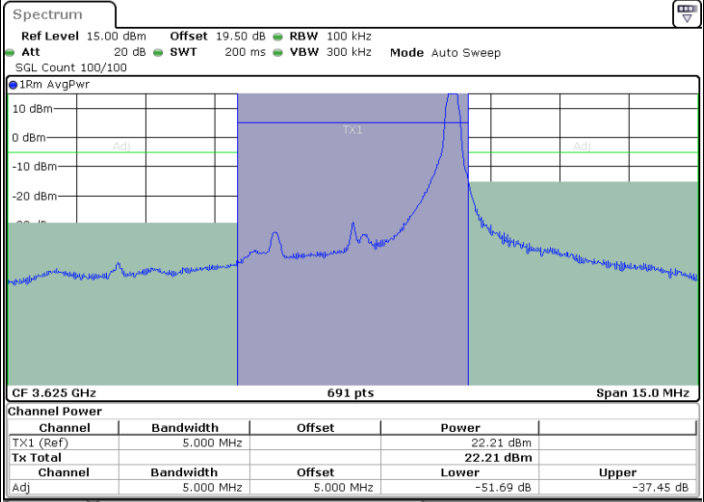
16QAM

Middle Channel / 1RB0



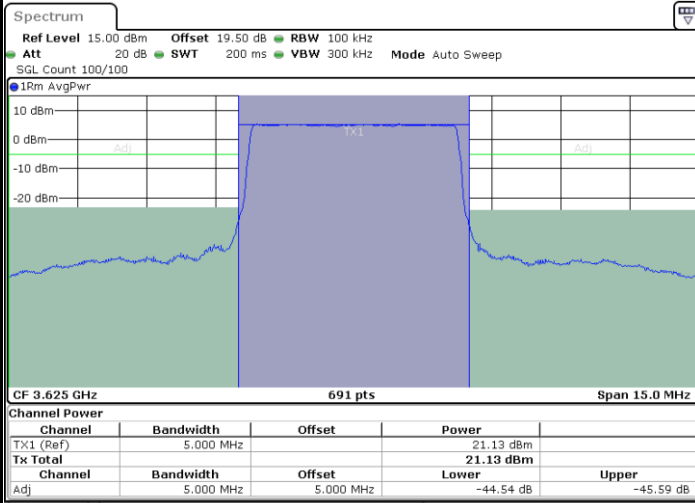
Date: 22.SEP.2023 13:59:14

Middle Channel / 1RBmax



Date: 22.SEP.2023 13:56:52

Middle Channel / FullRB



Date: 22.SEP.2023 14:01:36

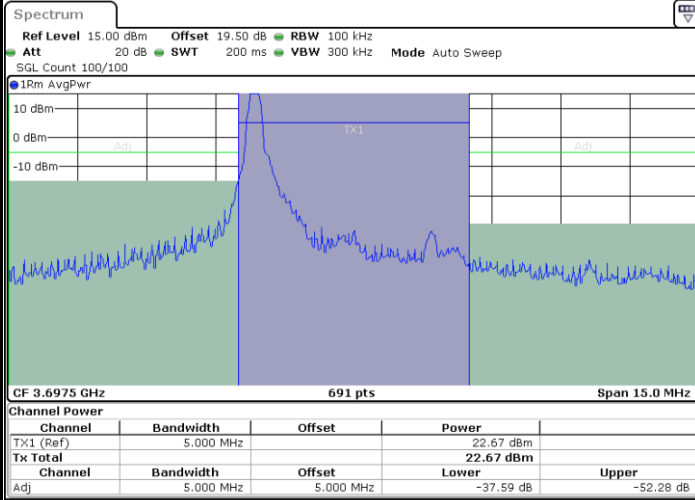
N/A



LTE Band 48 / 5MHz

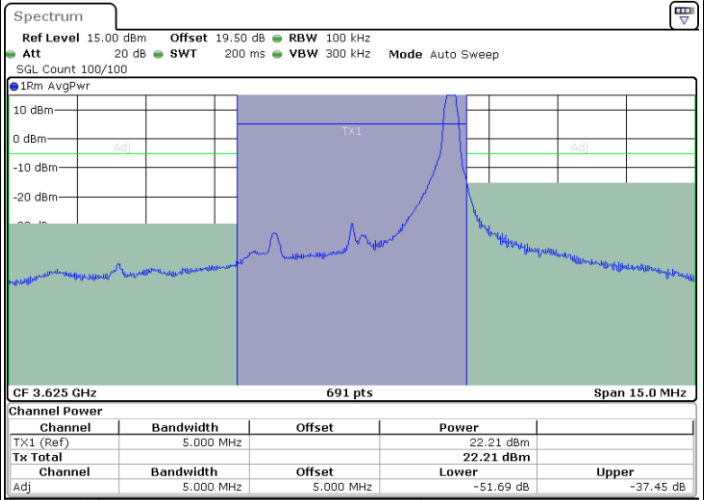
16QAM

Highest Channel / 1RB0



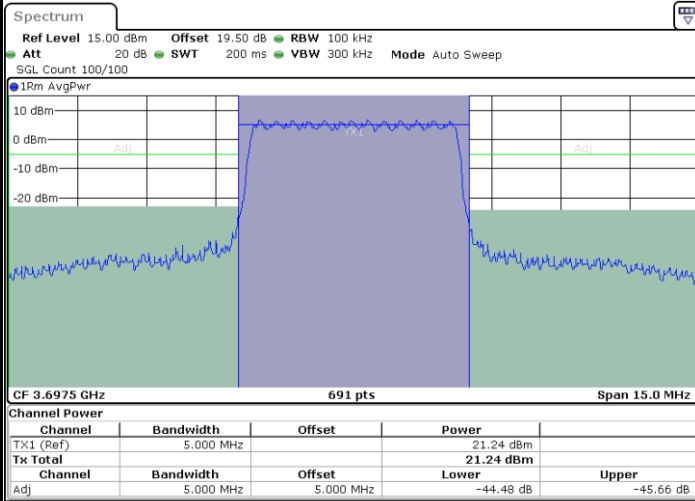
Date: 22.SEP.2023 14:22:53

Highest Channel / 1RBmax



Date: 22.SEP.2023 13:56:52

Highest Channel / FullRB



Date: 22.SEP.2023 14:17:59

N/A



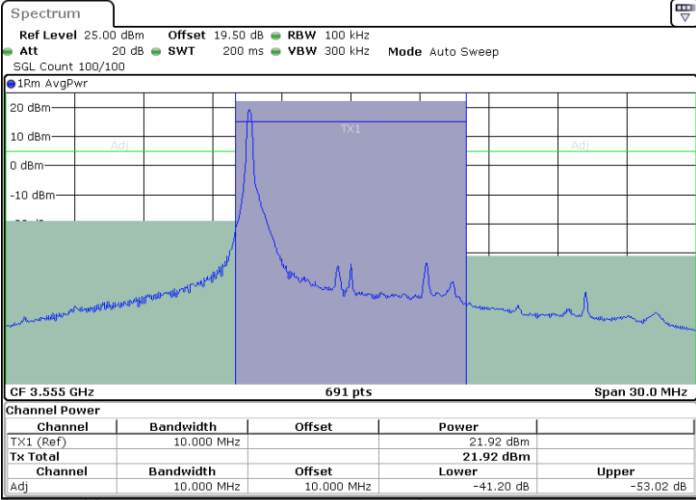


LTE Band 48 / 10MHz

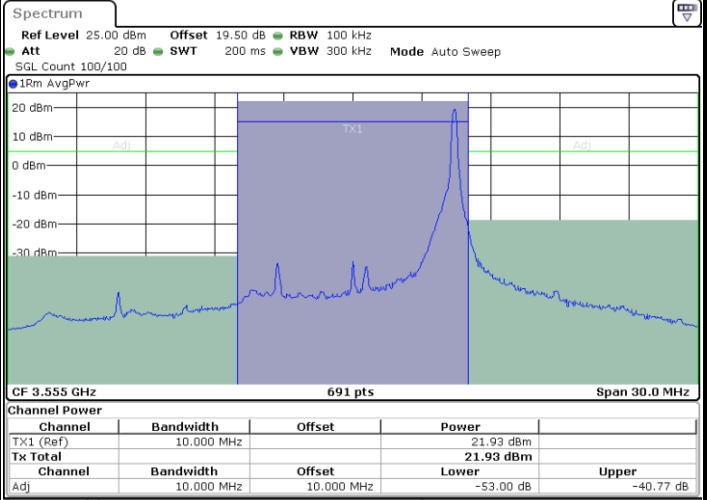
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



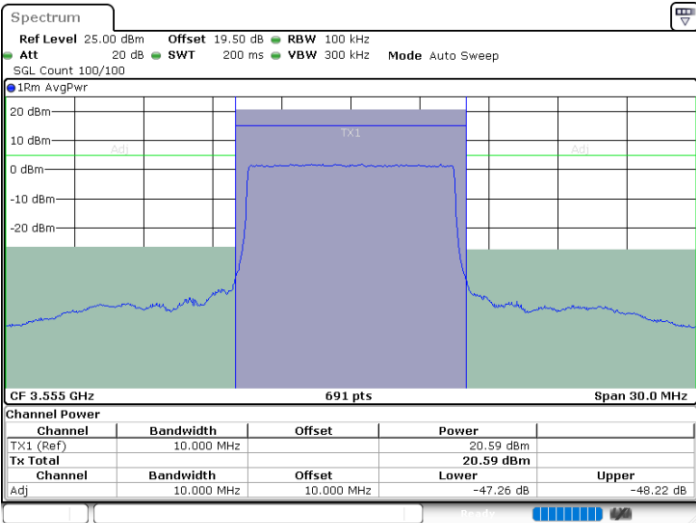
Date: 22.SEP.2023 14:52:22



Date: 22.SEP.2023 14:49:57

Lowest Channel / FullIRB

N/A



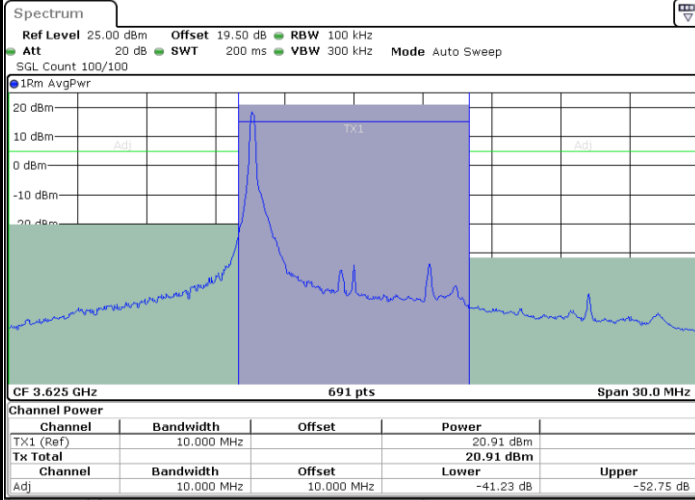
Date: 22.SEP.2023 14:47:32



LTE Band 48 / 10MHz

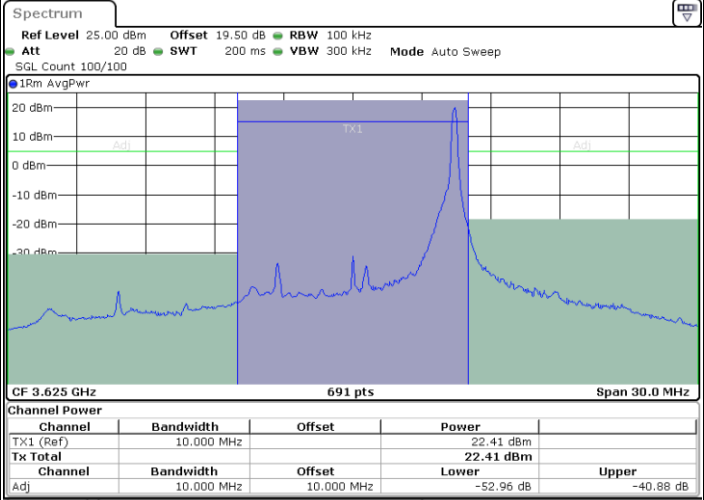
16QAM

Middle Channel / 1RB0



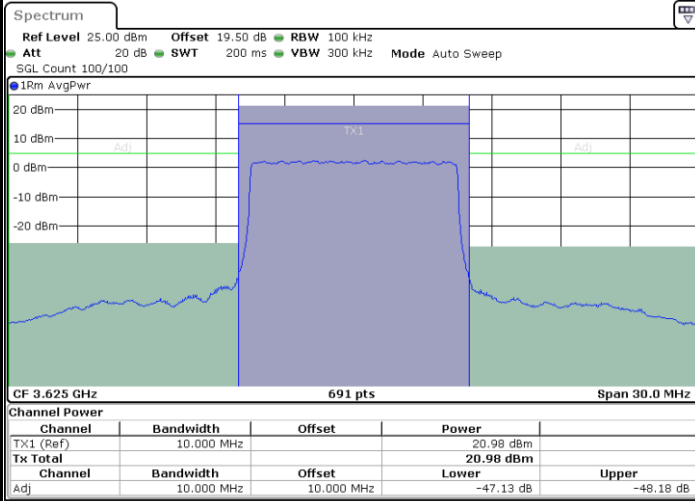
Date: 22.SEP.2023 15:06:58

Middle Channel / 1RBmax



Date: 22.SEP.2023 15:09:22

Middle Channel / FullIRB



Date: 22.SEP.2023 15:11:45

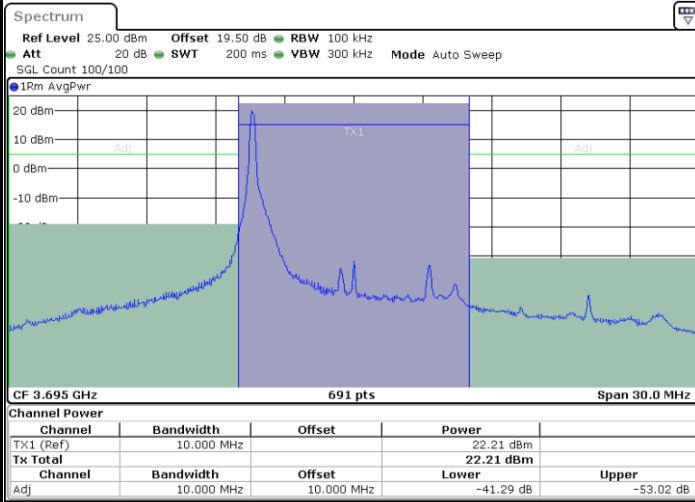
N/A



LTE Band 48 / 10MHz

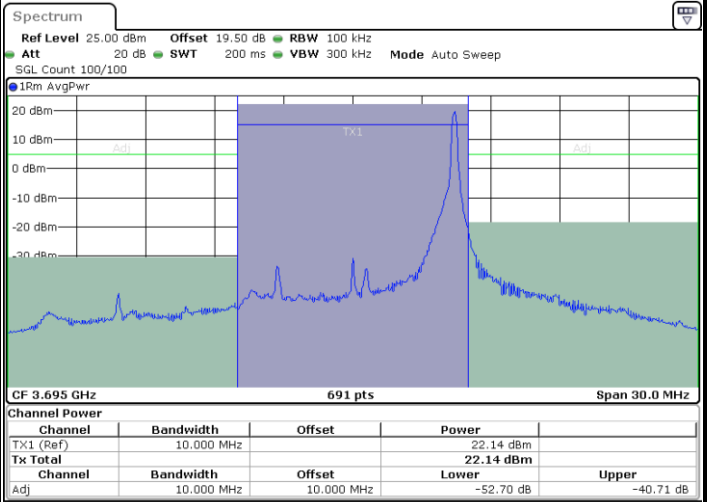
16QAM

Highest Channel / 1RB0



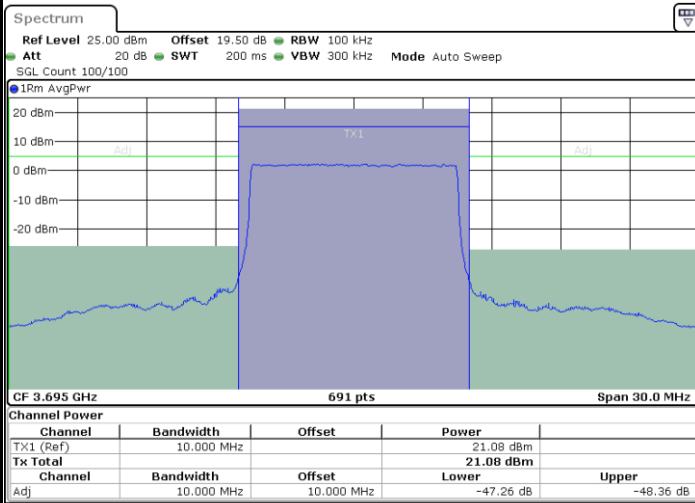
Date: 22.SEP.2023 15:32:38

Highest Channel / 1RBmax



Date: 22.SEP.2023 15:30:11

Highest Channel / FullIRB



Date: 22.SEP.2023 15:27:44

N/A

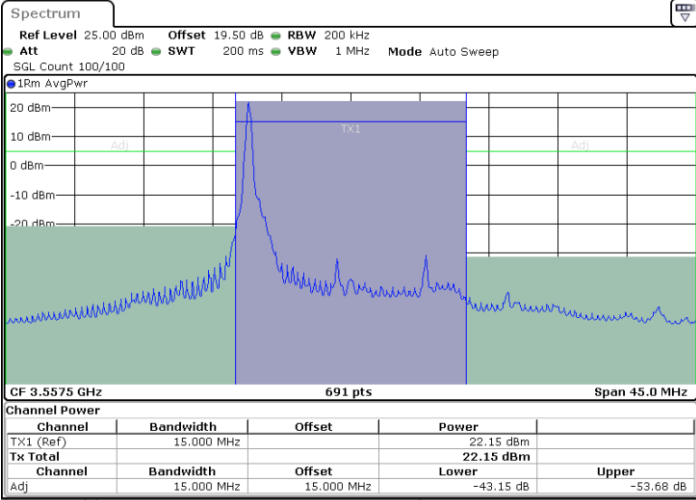


LTE Band 48 / 15MHz

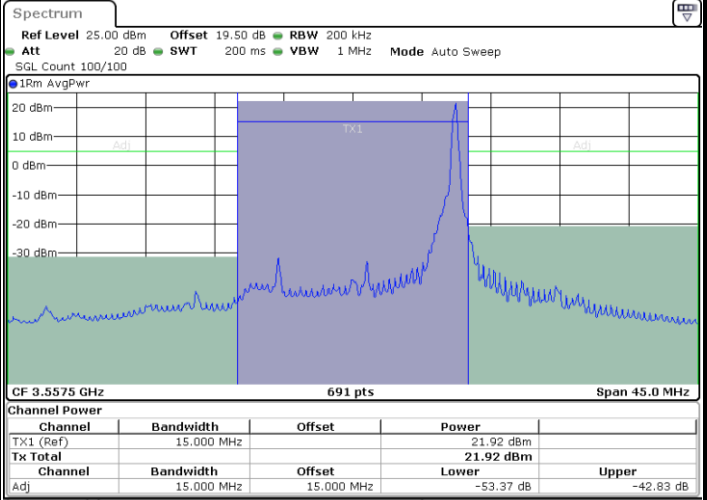
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



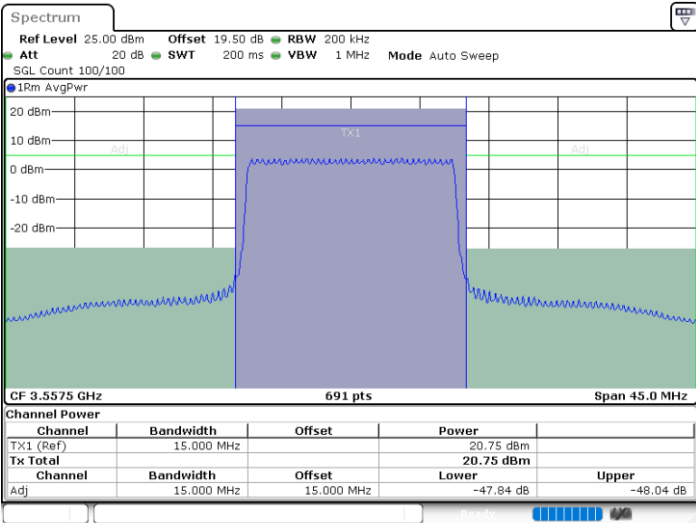
Date: 22.SEP.2023 15:56:26



Date: 22.SEP.2023 15:54:01

Lowest Channel / FullIRB

N/A



Date: 22.SEP.2023 15:51:35

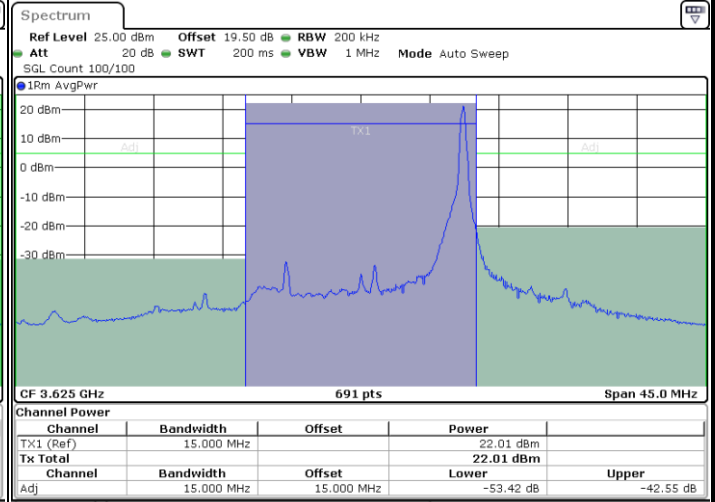
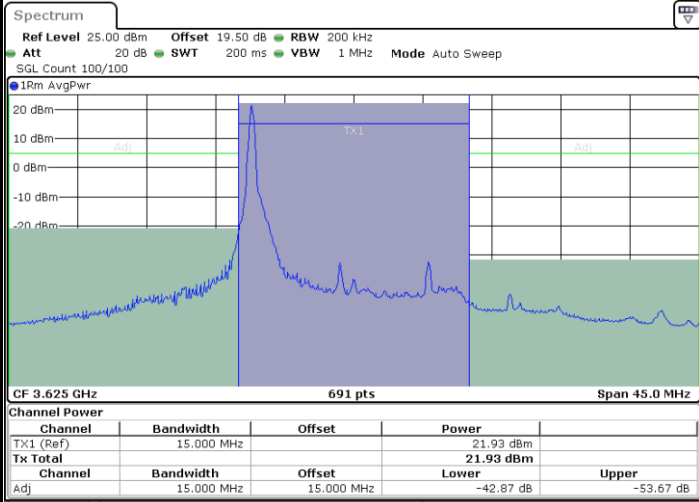


LTE Band 48 / 15MHz

16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

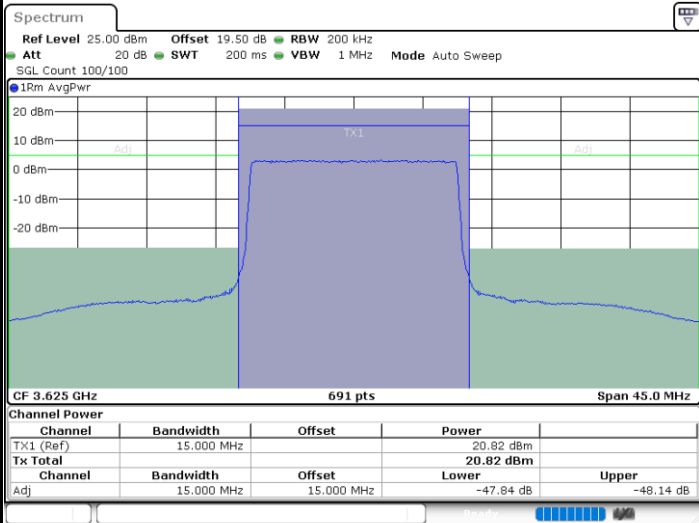


Date: 22.SEP.2023 16:12:08

Date: 22.SEP.2023 16:14:31

Middle Channel / FullIRB

N/A



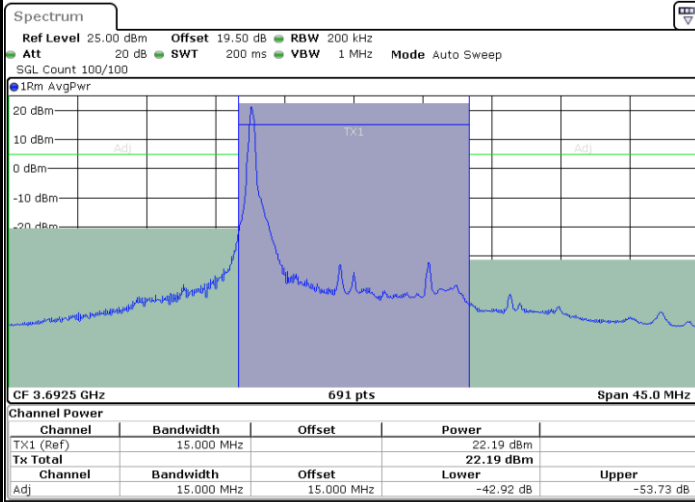
Date: 22.SEP.2023 16:16:54



LTE Band 48 / 15MHz

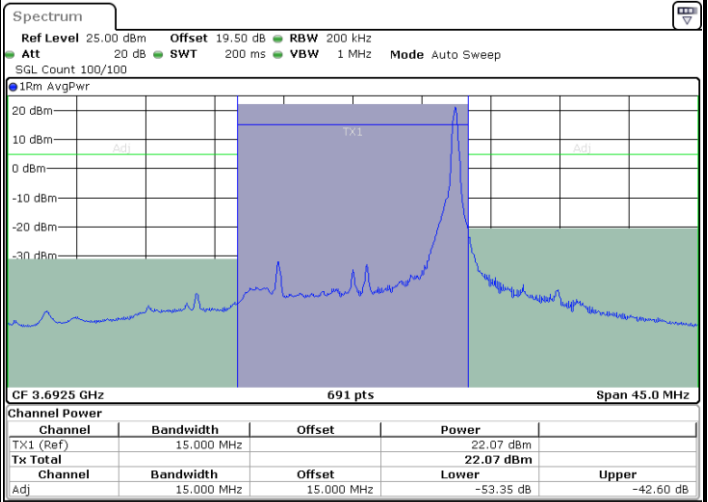
16QAM

Highest Channel / 1RB0



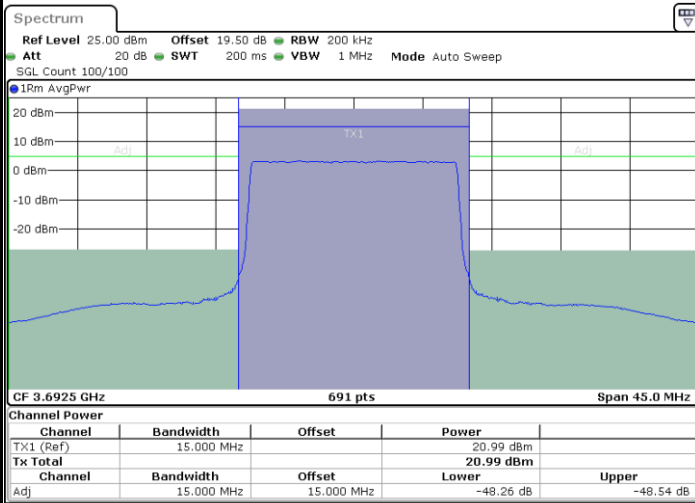
Date: 22.SEP.2023 20:19:38

Highest Channel / 1RBmax



Date: 22.SEP.2023 20:17:11

Highest Channel / FullRB



Date: 22.SEP.2023 20:14:43

N/A

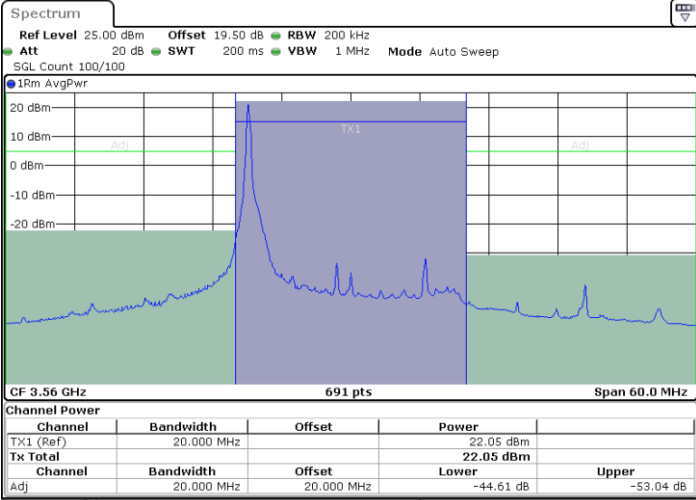


LTE Band 48 / 20MHz

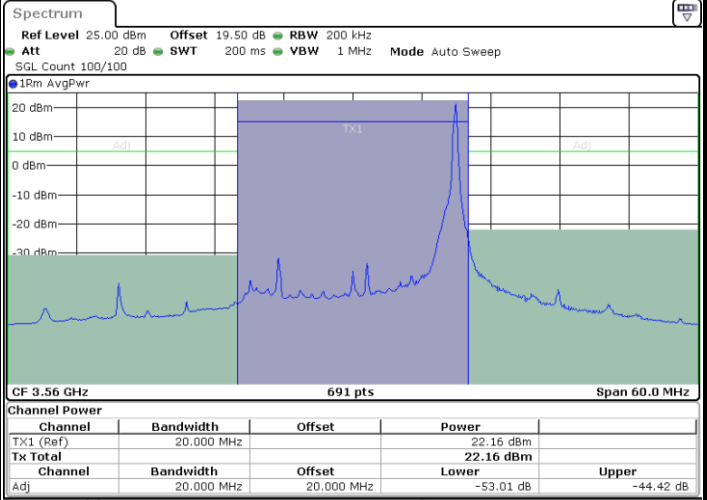
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



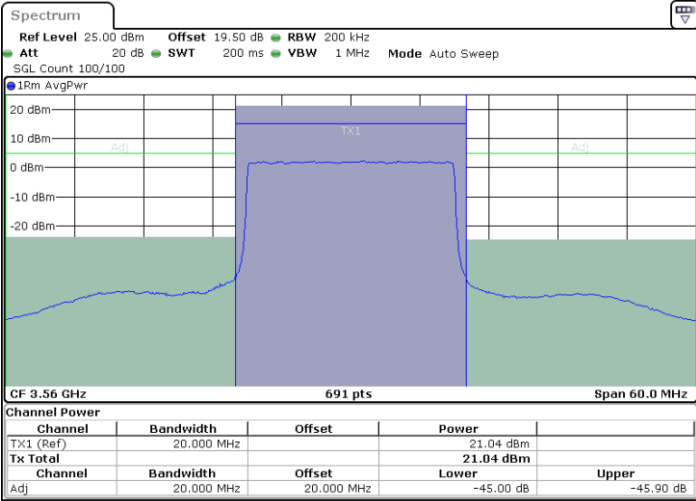
Date: 22.SEP.2023 17:25:27



Date: 22.SEP.2023 17:23:04

Lowest Channel / FullIRB

N/A



Date: 22.SEP.2023 17:20:41

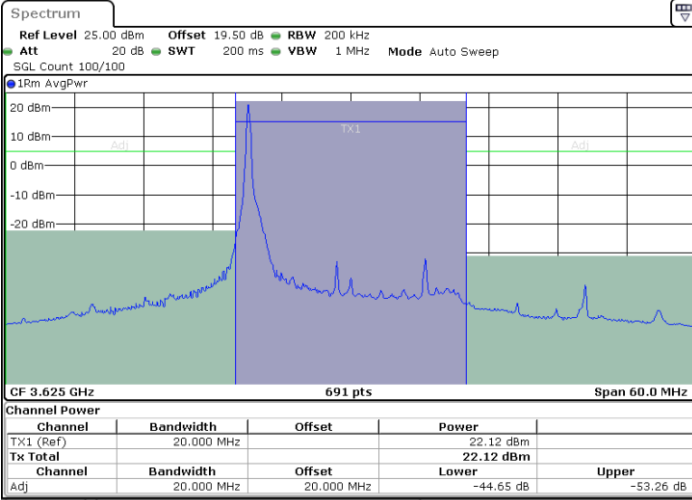


LTE Band 48 / 20MHz

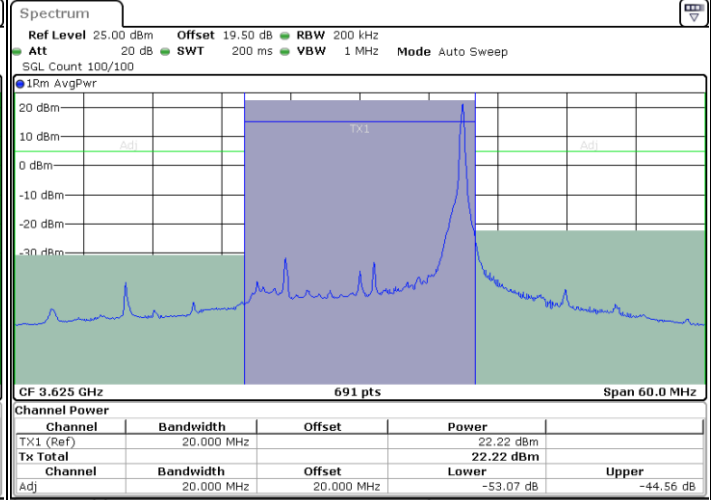
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



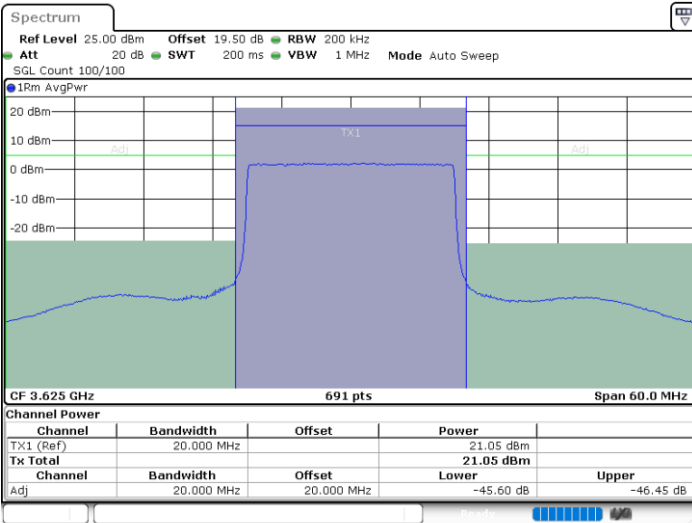
Date: 22.SEP.2023 17:41:06



Date: 22.SEP.2023 17:43:27

Middle Channel / FullIRB

N/A



Date: 22.SEP.2023 17:45:48

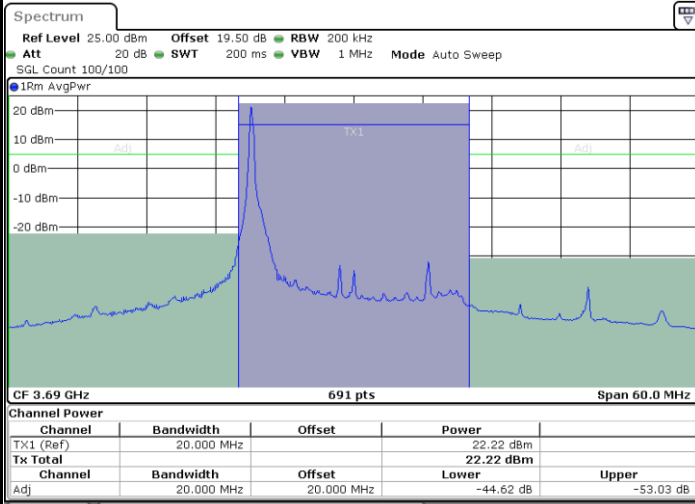




LTE Band 48 / 20MHz

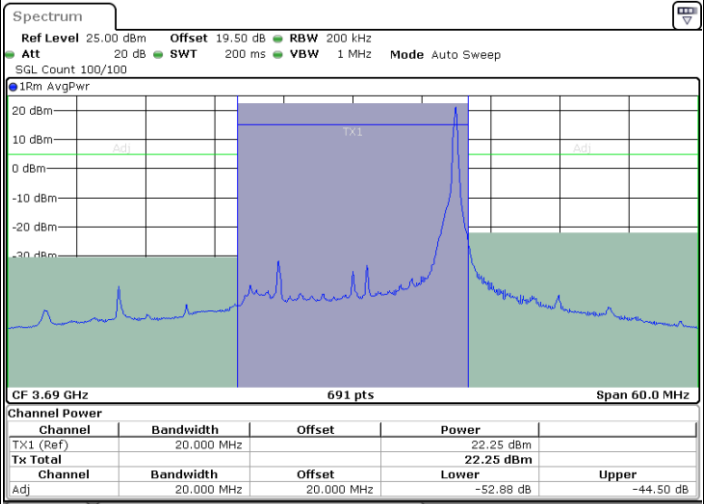
16QAM

Highest Channel / 1RB0



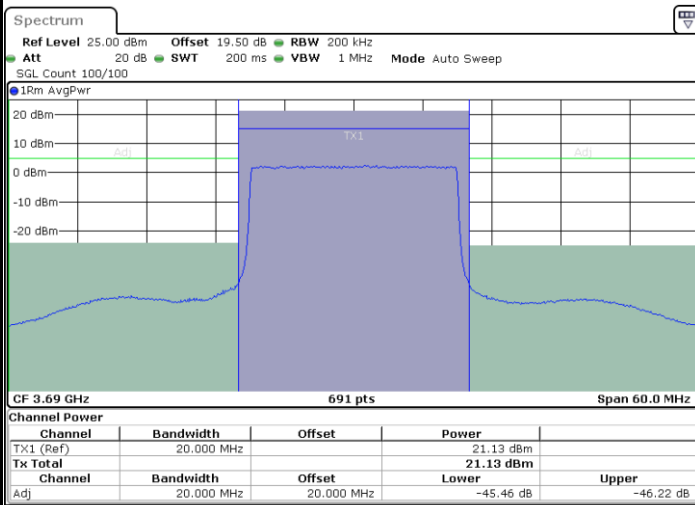
Date: 22.SEP.2023 18:11:50

Highest Channel / 1RBmax



Date: 22.SEP.2023 18:09:27

Highest Channel / FullRB



Date: 22.SEP.2023 18:07:04

N/A

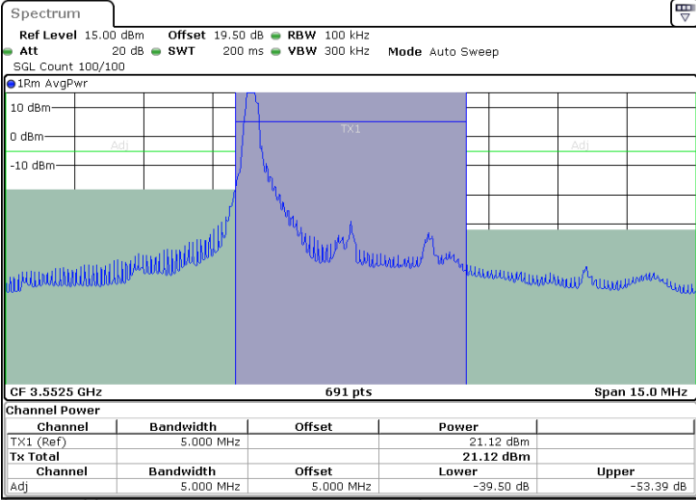


LTE Band 48 / 5MHz

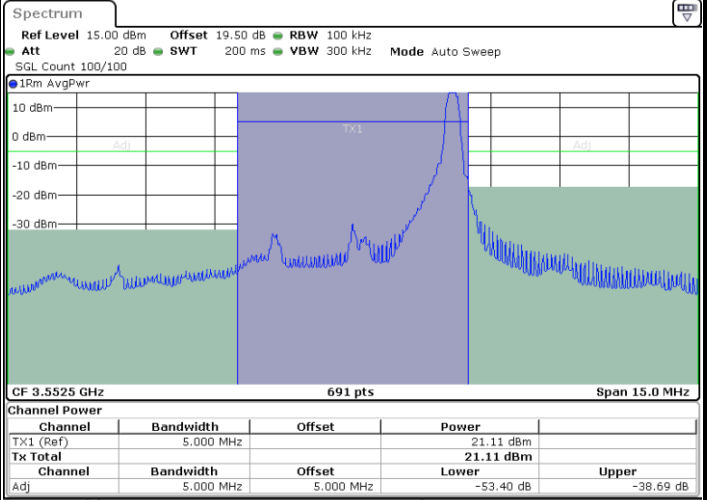
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



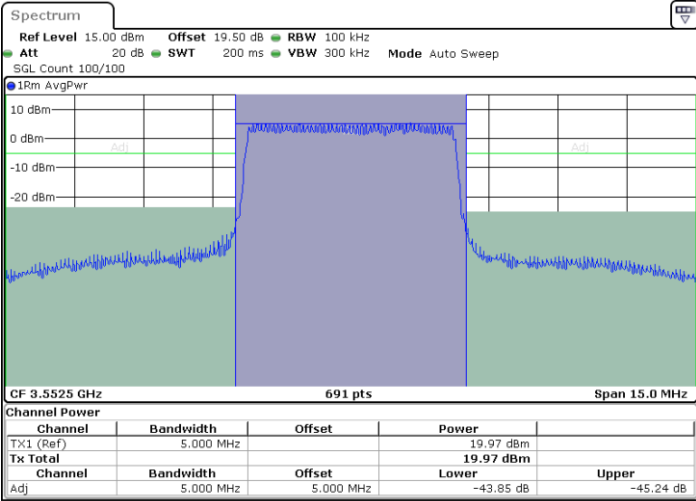
Date: 22.SEP.2023 13:38:39



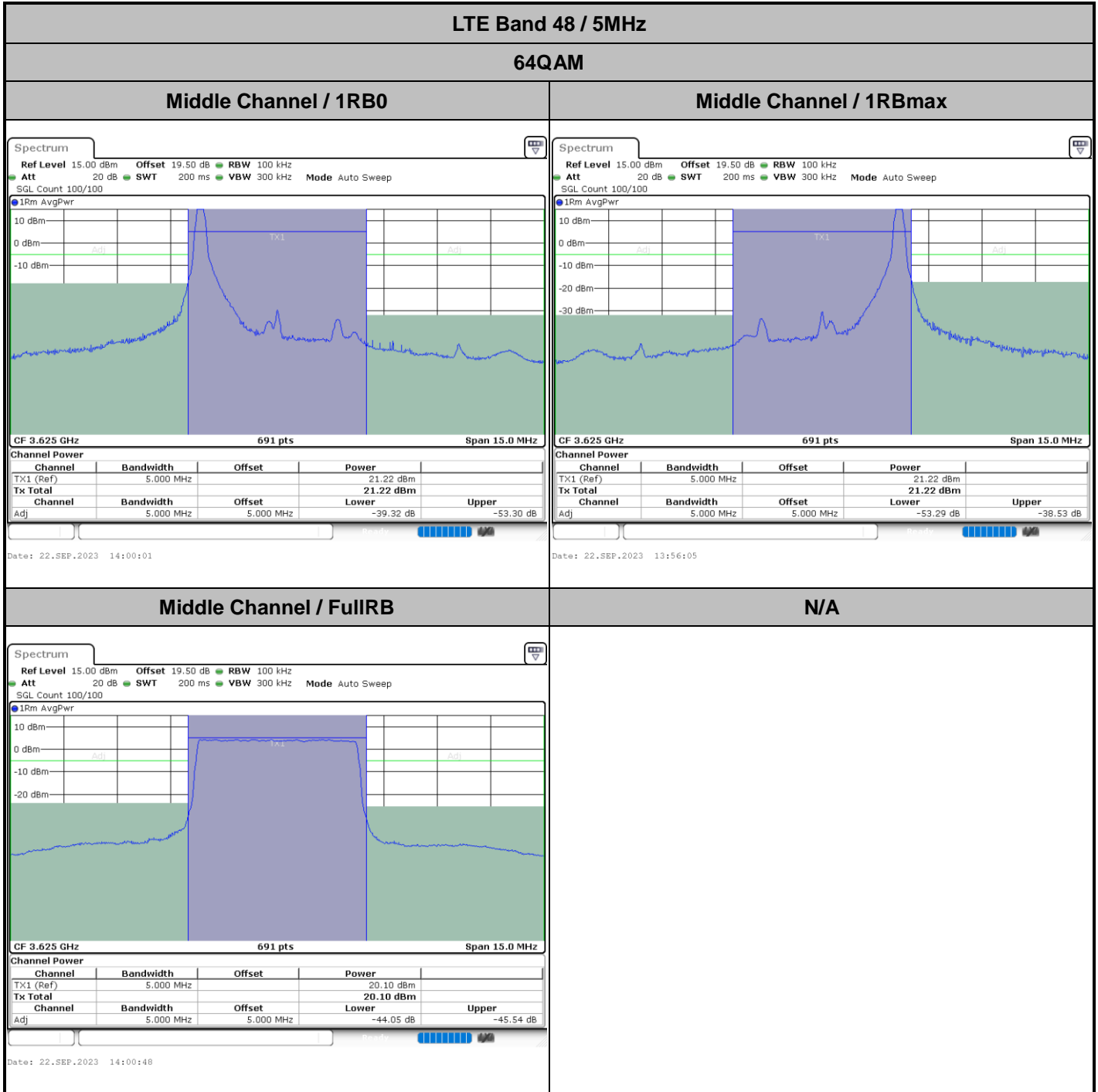
Date: 22.SEP.2023 13:42:40

Lowest Channel / FullIRB

N/A



Date: 22.SEP.2023 13:37:50

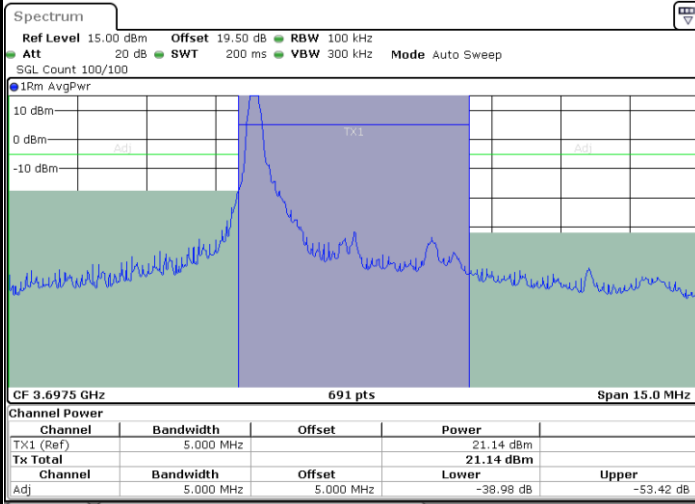




LTE Band 48 / 5MHz

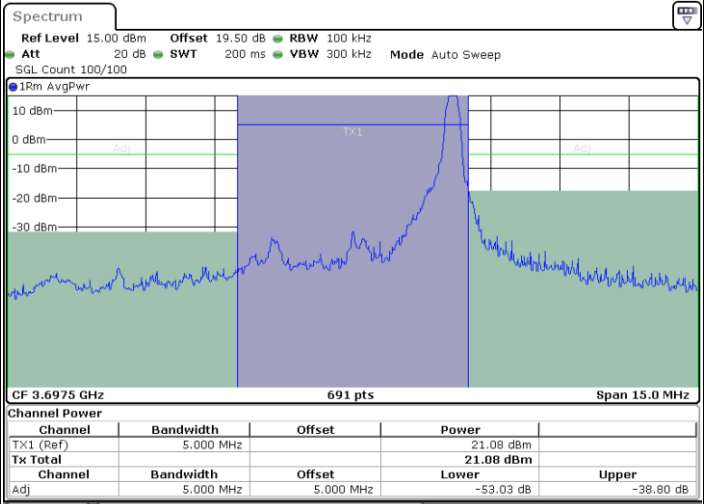
64QAM

Highest Channel / 1RB0



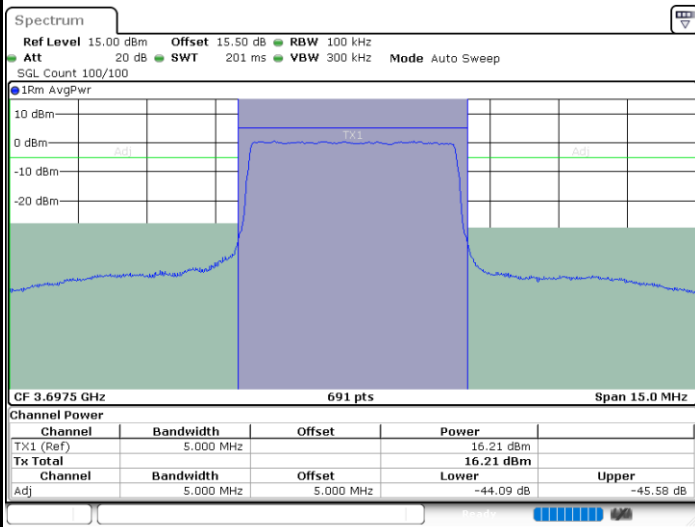
Date: 22.SEP.2023 14:23:42

Highest Channel / 1RBmax



Date: 22.SEP.2023 14:19:37

Highest Channel / FullRB



Date: 26.SEP.2023 09:34:36

N/A

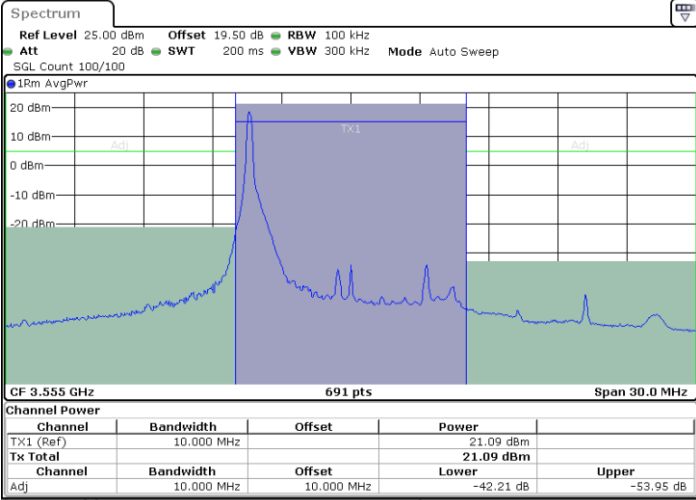


LTE Band 48 / 10MHz

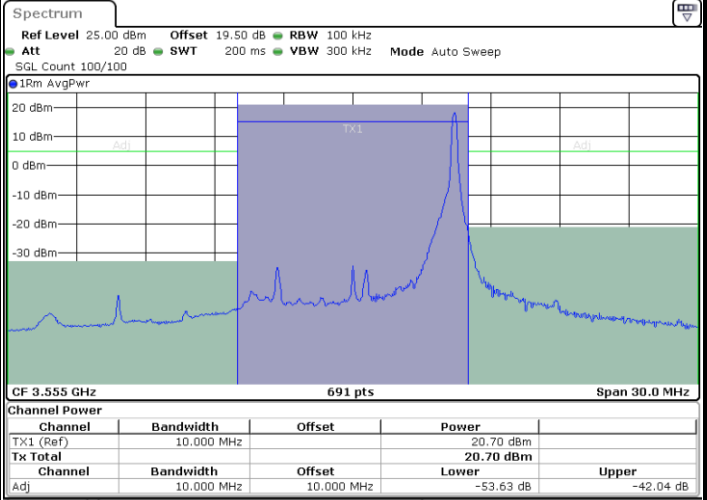
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



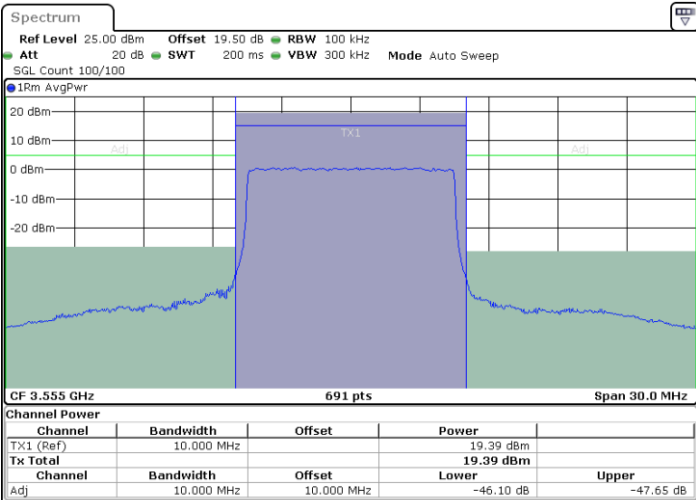
Date: 22.SEP.2023 14:53:10



Date: 22.SEP.2023 14:49:09

Lowest Channel / FullIRB

N/A



Date: 22.SEP.2023 14:48:21