



FCC RF Test Report

APPLICANT : Quectel Wireless Solutions Co., Ltd.
EQUIPMENT : 5G Sub-6 GHz LGA Module
BRAND NAME : Quectel
MODEL NAME : RG500L-NA
FCC ID : XMR2023RG500LNA
STANDARD : 47 CFR Part 2, 96
CLASSIFICATION : Citizens Band End User Devices (CBE)
EQUIPMENT TYPE : End User Equipment
TEST DATE(S) : Jan. 12, 2023 ~ Mar. 22, 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
FG2D0201G	01	Initial issue of report	Jun. 02, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Applicable	Not applicable for End User Devices
3.3	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Not Applicable	Not applicable for End User Devices
3.4	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio	Pass	-
3.6	§2.1051 §96.41	Conducted Spurious Emission	Pass	
3.7	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 3.77 dB at 14724.00 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

1.2 Manufacturer

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	5G Sub-6 GHz LGA Module
Brand Name	Quectel
Model Name	RG500L-NA
FCC ID	XMR2023RG500LNA
Tx Frequency	LTE Band 42 : 3550 MHz ~ 3600 MHz LTE Band 43 : 3600 MHz ~ 3700 MHz LTE Band 48: 3550 MHz ~ 3700 MHz
Rx Frequency	LTE Band 42 : 3550 MHz ~ 3600 MHz LTE Band 43 : 3600 MHz ~ 3700 MHz LTE Band 48: 3550 MHz ~ 3700 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Maximum Conducted Power	<Ant. 0> LTE Band 42: 22.08 dBm LTE Band 42C: 20.08 dBm LTE Band 43: 22.99 dBm LTE Band 43C: 21.06 dBm LTE Band 48: 23.11 dBm LTE Band 48C: 20.36 dBm < Ant. 6> LTE Band 48: 23.89 dBm
Antenna Gain	<Ant. 0> LTE Band 42: -4.29 dBi LTE Band 43: -4.29 dBi LTE Band 48: -4.29 dBi < Ant. 6> LTE Band 48: -4.29 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM
IMEI Code	Conducted: 860815050004316 Radiation: 860815050004233
HW Version	R1.0
SW Version	RG500LNAAAR04A02E32_OCPU
EUT Stage	Identical Prototype

Remark:



1. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP of Ant.0 for LTE Band 42/42C/43/43C/48C, and Ant.6 for LTE Band 48 are shown in the report.
2. The device supports two PAs for LTE Band 48 (main PA with Ant.0 for single carrier mode, and other PA with Ant.6 for ENDC mode), both the PA are full test.

1.4 Maximum Conducted Power and Emission Designator

LTE Band 42		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	3552.5~3597.5	0.1603	4M50G7D	0.1361	4M49W7D
10	3555.0~3595.0	0.1603	9M01G7D	0.1291	9M05W7D
15	3557.5~3592.5	0.1607	13M5G7D	0.1271	13M4W7D
20	3560.0~3590.0	0.1614	17M9G7D	0.1265	17M9W7D
LTE Band 43		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	3602.5~3697.5	0.1982	4M49G7D	0.1637	4M46W7D
10	3605.0~3695.0	0.1986	9M03G7D	0.1592	8M99W7D
15	3607.5~3692.5	0.1982	13M4G7D	0.1585	13M5W7D
20	3610.0~3690.0	0.1991	17M9G7D	0.1585	17M8W7D
LTE Band 48		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	3552.5~3697.5	0.2427	4M49G7D	0.1923	4M51W7D
10	3555.0~3695.0	0.2404	9M11G7D	0.1897	9M09W7D
15	3557.5~3692.5	0.2421	13M5G7D	0.1941	13M4W7D
20	3560.0~3690.0	0.2449	17M9G7D	0.1919	17M9W7D



LTE Band 42C_CA	QPSK		16QAM/64QAM/256QAM	
BW (MHz) Frequency (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5MHz+20MHz	0.0968	23M2G7D	0.0774	23M2W7D
10MHz+20MHz	0.0989	27M9G7D	0.0774	28M0W7D
15MHz+20MHz	0.1012	32M6G7D	0.0824	32M7W7D
20MHz+5MHz	0.1016	23M3G7D	0.0832	23M2W7D
20MHz+10MHz	0.1012	28M0G7D	0.0991	27M9W7D
20MHz+15MHz	0.0995	32M9G7D	0.0834	32M9W7D
20MHz+20MHz	0.1019	37M6G7D	0.0822	37M6W7D
LTE Band 43C_CA	QPSK		16QAM/64QAM/256QAM	
BW (MHz) Frequency (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5MHz+20MHz	0.1276	23M2G7D	0.1045	23M2W7D
20MHz+20MHz	0.0798	37M6G7D	0.0653	37M6W7D
LTE Band 48C_CA	QPSK		16QAM/64QAM/256QAM	
BW (MHz) Frequency (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5MHz+20MHz	0.1074	23M3G7D	0.0855	23M4W7D
10MHz+20MHz	0.1062	27M8G7D	0.0855	27M6W7D
15MHz+20MHz	0.1074	32M5G7D	0.0845	32M6W7D
20MHz+5MHz	0.1081	23M3G7D	0.0851	23M3W7D
20MHz+10MHz	0.1086	28M0G7D	0.0867	28M1W7D
20MHz+15MHz	0.1035	32M8G7D	0.0838	32M9W7D
20MHz+20MHz	0.1062	38M0G7D	0.0849	37M9W7D

Note: All modulations have been tested, only the worst test results of PSK & QAM 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.
	03CH04-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24al

1.7 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

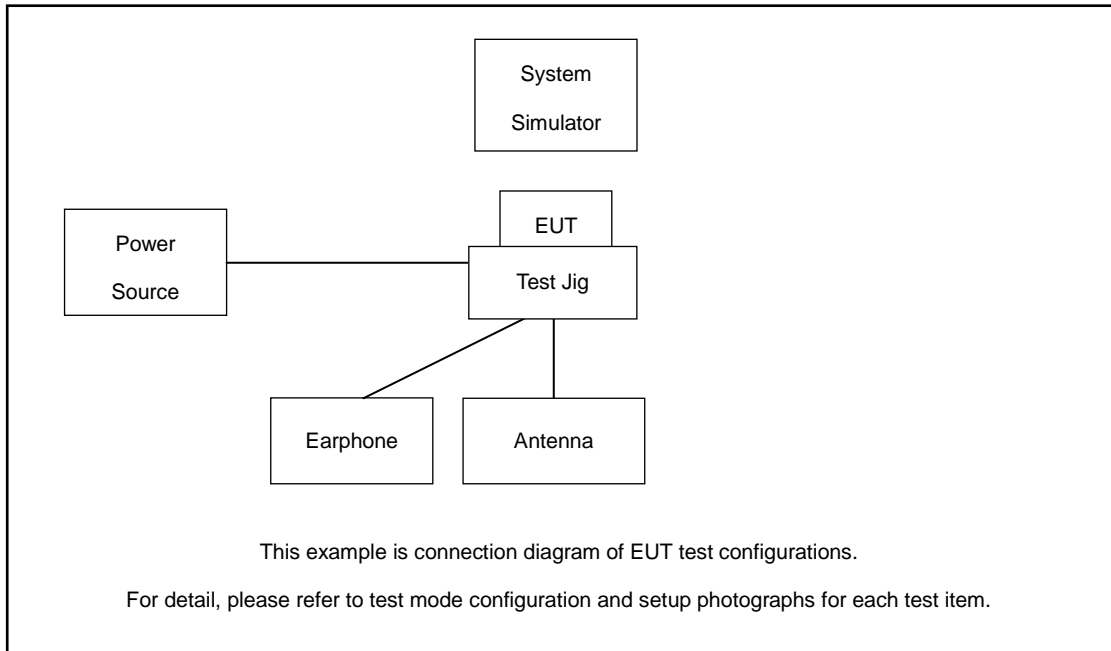
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	42	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
	43	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
	48	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
Adjacent Channel Leakage Ratio	42	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
	43	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
	48	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	42	-	-	v	v	v	v	v	v					v		v	
	43	-	-	v	v	v	v	v	v					v		v	
	48	-	-	v	v	v	v	v	v					v		v	
Conducted Band Edge	42	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
	43	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
	48	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
Conducted Spurious Emission	42	-	-	v	v	v	v	v					v		v	v	v
	43	-	-	v	v	v	v	v					v		v	v	v
	48	-	-	v	v	v	v	v					v		v	v	v
E.I.R.P	42	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
	43	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
	48	-	-	v	v	v	v	v	v	v	v	v		v	v	v	v
Frequency Stability	42	-	-	v				v						v		v	
	43	-	-	v				v						v		v	
	48	-	-	v				v						v		v	
Radiated Spurious Emission	42	Worst Case													v	v	v
	43	Worst Case													v	v	v
	48	Worst Case													v	v	v
Note	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 																



Test Items	Band	Bandwidth (MHz)										Modulation				RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	42C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v		v	v	v	v
	43C_CA	v	-	-	-	-	-	v	-	-	-	v	v	v	v	v		v	v	v	v
	48C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v		v	v	v	v
Adjacent Channel Leakage Ratio	42C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v		v	v	v	v
	43C_CA	v	-	-	-	-	-	v	-	-	-	v	v	v	v	v		v	v	v	v
	48C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	42C_CA	v	v	v	v	v	v	v	-	-	-	v	v					v		v	
	43C_CA	v	-	-	-	-	-	v	-	-	-	v	v					v		v	
	48C_CA	v	v	v	v	v	v	v	-	-	-	v	v					v		v	
Conducted Band Edge	42C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v		v	v	v	v
	43C_CA	v	-	-	-	-	-	v	-	-	-	v	v	v	v	v		v	v	v	v
	48C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v		v	v	v	v
Conducted Spurious Emission	42C_CA	v	v	v	v	v	v	v	-	-	-	v				v			v	v	v
	43C_CA	v	-	-	-	-	-	v	-	-	-	v				v			v	v	v
	48C_CA	v	v	v	v	v	v	v	-	-	-	v				v			v	v	v
E.I.R.P.	42C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v		v	v	v	v
	43C_CA	v	-	-	-	-	-	v	-	-	-	v	v	v	v	v		v	v	v	v
	48C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v		v	v	v	v
Frequency Stability	42C_CA	v							-	-	-	v						v		v	
	43C_CA	v	-	-	-	-	-		-	-	-	v						v		v	
	48C_CA	v							-	-	-	v						v		v	
Radiated Spurious Emission	42C_CA	Worst Case																v	v	v	
	43C_CA	Worst Case																v	v	v	
	48C_CA	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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Antenna	Quectel	N/A	N/A	N/A	N/A
4.	Earphone	N/A	N/A	N/A	N/A	N/A
5.	Test Jig	Quectel	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 6.2 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 6.2 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

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

LTE Band 42 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	43190	43340	43490
	Frequency	3560	3575	3590
15	Channel	43165	43340	43515
	Frequency	3557.5	3575	3592.5
10	Channel	43140	43340	43540
	Frequency	3555	3575	3595
5	Channel	43115	43340	43565
	Frequency	3552.5	3575	3597.5

LTE Band 43 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	43690	44090	44490
	Frequency	3610	3650	3690
15	Channel	43665	44090	44515
	Frequency	3607.5	3650	3692.5
10	Channel	43640	44090	44540
	Frequency	3605	3650	3695
5	Channel	43615	44090	44565
	Frequency	3602.5	3650	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
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



LTE Band 42C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	43190	43340	43292
		Frequency	3560	3575	3570.2
	SCC	Channel	43388	43538	43490
		Frequency	3579.8	3594.8	3590
20 + 15	PCC	Channel	43190	43340	43344
		Frequency	3560	3575	3575.4
	SCC	Channel	43361	43511	43515
		Frequency	3577.1	3592.1	3592.5
15 + 20	PCC	Channel	43165	43340	43319
		Frequency	3557.5	3575	3572.9
	SCC	Channel	43336	43511	43490
		Frequency	3574.6	3592.1	3590
20 + 10	PCC	Channel	43190	43340	43396
		Frequency	3560	3575	3580.6
	SCC	Channel	43334	43484	43540
		Frequency	3574.4	3589.4	3595
10 + 20	PCC	Channel	43140	43340	43346
		Frequency	3555	3575	3575.6
	SCC	Channel	43284	43484	43490
		Frequency	3569.4	3589.4	3590
20 + 5	PCC	Channel	43190	43340	43448
		Frequency	3560	3575	3585.8
	SCC	Channel	43307	43457	43565
		Frequency	3571.7	3586.7	3597.5
5 + 20	PCC	Channel	43115	43340	43373
		Frequency	3552.5	3575	3578.3
	SCC	Channel	43232	43457	43490
		Frequency	3564.2	3586.7	3590



LTE Band 43C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5 + 20	PCC	Channel	43615	44090	44373
		Frequency	3602.5	3650	3678.3
	SCC	Channel	43732	44207	44490
		Frequency	3614.2	3661.7	3690
20 +20	PCC	Channel	43690	44090	44490
		Frequency	3610	3650	3690
	SCC	Channel	43888	44288	44688
		Frequency	3629.8	3669.8	3709.8

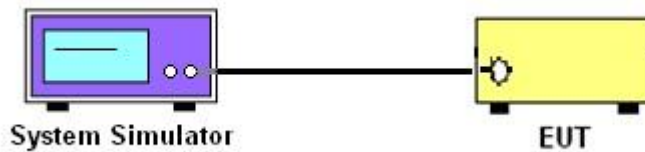
3 Conducted Test Items

3.1 Measuring Instruments

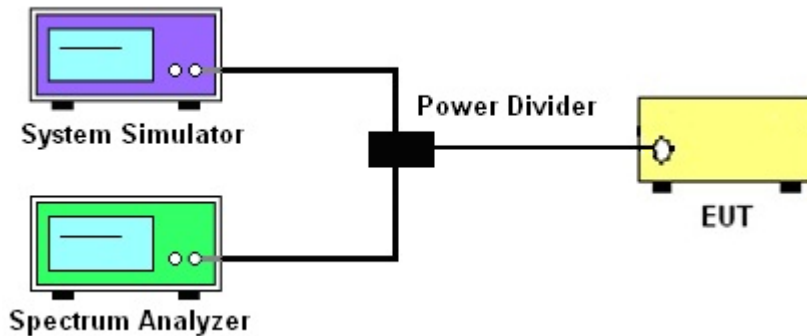
See list of measuring instruments of this test report.

3.1.1 Test Setup

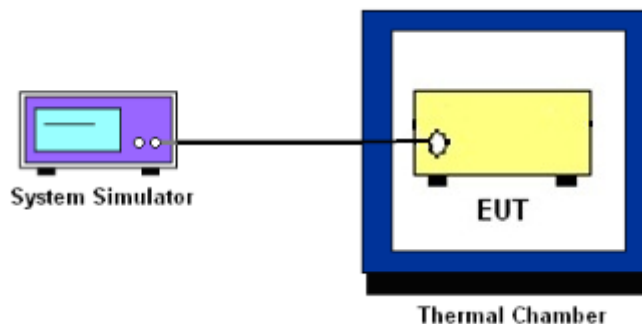
3.1.2 Conducted Output Power / ACLR



3.1.3 26dB & 99% Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power Measurement

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

3.2.2 Test Procedures

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

3.3 EIRP

3.3.1 Description of the EIRP Measurement

EIRP and PSD limits for CBRS equipment as below table:

Device		Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
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 total channel bandwidth EIRP comply with the limit, thus any 10MHz EIRP also comply.

3.3.2 Test Procedures for EIRP

1. Establishing a communications link with the call box (Base station) to measure the Maximum conducted power, the parameters were set to force the EUT transmitting at maximum output power level. Use the average power measurement function to measure total channel power of each channel bandwidth (per ANSI C63.26-2015 Section 5.2.1)
2. Determining ERP and/or EIRP from conducted RF output power measurements (Per ANSI C63.26-2015 Section 5.2.5.5)
 - EIRP = $P_T + G_T - L_C$, ERP = EIRP -2.15, where
 - P_T = transmitter output power in dBm
 - G_T = gain of the transmitting antenna in dBi
 - L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB



3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

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

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

Part 96.41 (e) (1) (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

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ 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.



3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

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

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

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



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ 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.

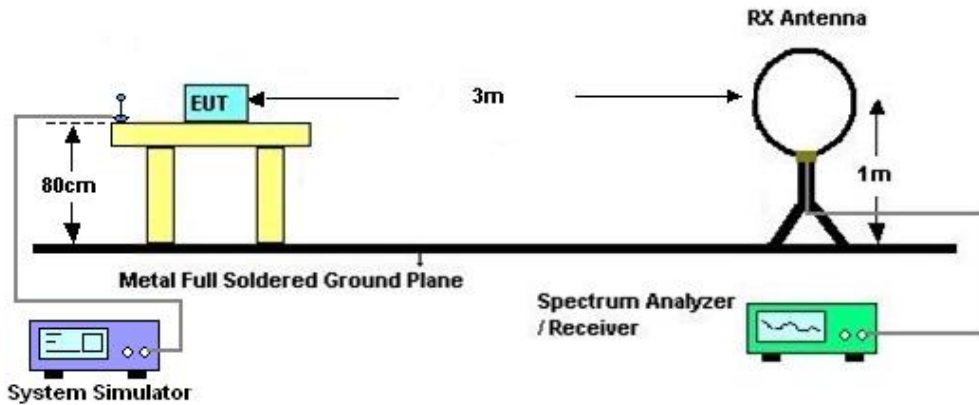
4 Radiated Test Items

4.1 Measuring Instruments

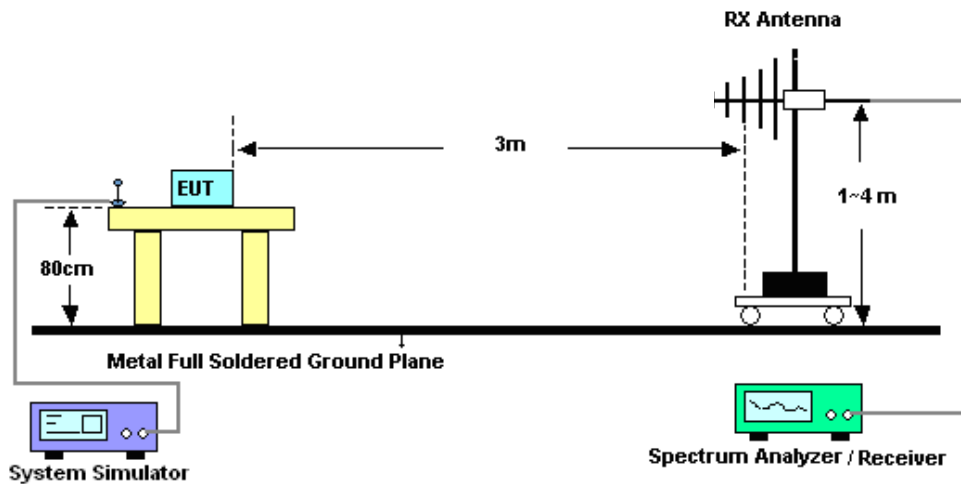
See list of measuring instruments of this test report.

4.2 Test Setup

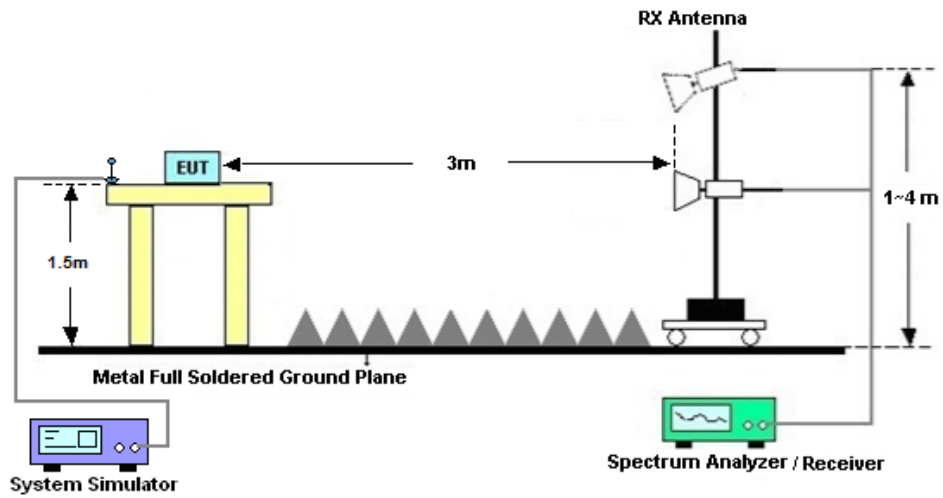
4.2.1 For radiated test below 30MHz



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	101040	10Hz~40GHz	Oct. 12, 2022	Jan. 12, 2023~ Mar. 22, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jan. 12, 2023~ Mar. 22, 2023	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011 440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Jan. 12, 2023~ Mar. 22, 2023	Jul. 14, 2023	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY574710 79	10Hz-44G,MAX 30dB	Oct. 12, 2022	Mar. 20, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Mar. 20, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 24, 2022	Mar. 20, 2023	May 23, 2023	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 16, 2022	Mar. 20, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Mar. 20, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	May 24, 2022	Mar. 20, 2023	May 23, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2023	Mar. 20, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 12, 2022	Mar. 20, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A023 70	1Ghz-18Ghz	Oct. 12, 2022	Mar. 20, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Mar. 20, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 20, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 20, 2023	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



6 Uncertainty of Evaluation

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.1 %

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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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 42 (Ant.0):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Gain	EIRP(W)		
								Channel	L	M
				43190	43340	43490				
				3560	3575	3590				
20	QPSK	1	0	22.01	22.03	22.08	-4.29	0.0592	0.0594	0.0601
20	QPSK	1	99	22.02	22.02	22.00	-4.29	0.0593	0.0593	0.0590
20	QPSK	100	0	21.10	21.13	21.10	-4.29	0.0480	0.0483	0.0480
20	16QAM	1	0	20.98	21.02	21.01	-4.29	0.0467	0.0471	0.0470
20	16QAM	1	99	20.84	20.79	20.62	-4.29	0.0452	0.0447	0.0430
20	16QAM	100	0	20.14	20.14	20.04	-4.29	0.0385	0.0385	0.0376
20	64QAM	1	0	19.90	19.93	19.92	-4.29	0.0364	0.0366	0.0366
20	64QAM	1	99	19.74	19.70	19.59	-4.29	0.0351	0.0348	0.0339
20	64QAM	100	0	19.08	19.09	18.99	-4.29	0.0301	0.0302	0.0295
20	256QAM	1	0	17.09	17.11	17.08	-4.29	0.0191	0.0191	0.0190
20	256QAM	1	99	16.84	16.81	16.70	-4.29	0.0180	0.0179	0.0174
20	256QAM	100	0	17.08	17.07	16.95	-4.29	0.0190	0.0190	0.0185
				43165	43340	43515				
				3557.5	3575	3592.5				
15	QPSK	1	0	22.05	22.03	22.06	-4.29	0.0597	0.0594	0.0598
15	QPSK	1	74	21.95	21.89	21.79	-4.29	0.0583	0.0575	0.0562
15	QPSK	75	0	21.00	20.98	20.89	-4.29	0.0469	0.0467	0.0457
15	16QAM	1	0	20.98	21.04	20.99	-4.29	0.0467	0.0473	0.0468
15	16QAM	1	74	20.91	20.85	20.75	-4.29	0.0459	0.0453	0.0443
15	16QAM	75	0	20.12	20.10	20.06	-4.29	0.0383	0.0381	0.0378
15	64QAM	1	0	19.79	19.82	19.72	-4.29	0.0355	0.0357	0.0349
15	64QAM	1	74	19.83	19.79	19.69	-4.29	0.0358	0.0355	0.0347
15	64QAM	75	0	19.18	19.16	19.07	-4.29	0.0308	0.0307	0.0301
15	256QAM	1	0	16.87	16.94	16.80	-4.29	0.0181	0.0184	0.0178
15	256QAM	1	74	16.92	16.84	16.78	-4.29	0.0183	0.0180	0.0177
15	256QAM	75	0	17.14	17.08	20.84	-4.29	0.0193	0.0190	0.0452
				43140	43340	43540				
				3555	3575	3595				
10	QPSK	1	0	22.05	22.01	22.03	-4.29	0.0597	0.0592	0.0594
10	QPSK	1	49	21.68	21.81	21.73	-4.29	0.0548	0.0565	0.0555
10	QPSK	50	0	21.05	20.82	20.80	-4.29	0.0474	0.0450	0.0448
10	16QAM	1	0	21.03	21.11	21.05	-4.29	0.0472	0.0481	0.0474
10	16QAM	1	49	20.56	20.51	20.47	-4.29	0.0424	0.0419	0.0415
10	16QAM	50	0	20.26	20.03	19.98	-4.29	0.0395	0.0375	0.0371



10	64QAM	1	0	19.89	19.53	19.55	-4.29	0.0363	0.0334	0.0336
10	64QAM	1	49	19.53	19.64	19.57	-4.29	0.0334	0.0343	0.0337
10	64QAM	50	0	18.78	18.99	19.00	-4.29	0.0281	0.0295	0.0296
10	256QAM	1	0	17.00	16.60	16.71	-4.29	0.0187	0.0170	0.0175
10	256QAM	1	49	16.66	16.71	16.70	-4.29	0.0173	0.0175	0.0174
10	256QAM	50	0	16.80	16.98	16.98	-4.29	0.0178	0.0186	0.0186
Channel				43115	43340	43565	Gain	EIRP(W)		
Frequency (MHz)				3552.5	3575	3597.5		L	M	H
5	QPSK	1	0	22.05	22.03	22.01	-4.29	0.0597	0.0594	0.0592
5	QPSK	1	24	21.89	21.91	22.02	-4.29	0.0575	0.0578	0.0593
5	QPSK	25	0	21.01	20.91	21.03	-4.29	0.0470	0.0459	0.0472
5	16QAM	1	0	21.08	21.34	21.01	-4.29	0.0478	0.0507	0.0470
5	16QAM	1	24	20.93	20.81	20.79	-4.29	0.0461	0.0449	0.0447
5	16QAM	25	0	20.20	20.10	20.27	-4.29	0.0390	0.0381	0.0396
5	64QAM	1	0	19.82	19.78	19.75	-4.29	0.0357	0.0354	0.0352
5	64QAM	1	24	19.74	19.76	19.86	-4.29	0.0351	0.0352	0.0361
5	64QAM	25	0	19.15	19.05	19.22	-4.29	0.0306	0.0299	0.0311
5	256QAM	1	0	17.03	16.87	16.88	-4.29	0.0188	0.0181	0.0182
5	256QAM	1	24	16.83	16.84	17.00	-4.29	0.0179	0.0180	0.0187
5	256QAM	25	0	17.09	17.08	17.24	-4.29	0.0191	0.0190	0.0197



LTE Band 43 (Ant.0):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Gain	EIRP(W)		
								L	M	H
Channel				43690	44090	44490		EIRP(W)		
Frequency (MHz)				3610	3650	3690		L	M	H
20	QPSK	1	0	22.97	22.99	22.98	-4.29	0.0738	0.0741	0.0740
20	QPSK	1	99	22.95	22.97	22.87	-4.29	0.0735	0.0738	0.0721
20	QPSK	100	0	22.07	22.06	21.90	-4.29	0.0600	0.0598	0.0577
20	16QAM	1	0	22.00	21.87	21.84	-4.29	0.0590	0.0573	0.0569
20	16QAM	1	99	21.71	21.59	21.66	-4.29	0.0552	0.0537	0.0546
20	16QAM	100	0	20.85	20.90	20.82	-4.29	0.0453	0.0458	0.0450
20	64QAM	1	0	20.79	20.66	20.56	-4.29	0.0447	0.0434	0.0424
20	64QAM	1	99	20.44	20.52	20.35	-4.29	0.0412	0.0420	0.0404
20	64QAM	100	0	20.00	20.11	19.93	-4.29	0.0372	0.0382	0.0366
20	256QAM	1	0	18.01	17.94	17.87	-4.29	0.0236	0.0232	0.0228
20	256QAM	1	99	17.71	17.78	17.66	-4.29	0.0220	0.0223	0.0217
20	256QAM	100	0	17.97	18.03	17.97	-4.29	0.0233	0.0237	0.0233
Channel				43665	44090	44515	Gain	EIRP(W)		
Frequency (MHz)				3607.5	3650	3692.5		L	M	H
15	QPSK	1	0	22.96	22.97	22.95	-4.29	0.0736	0.0738	0.0735
15	QPSK	1	74	22.85	22.88	22.63	-4.29	0.0718	0.0723	0.0682
15	QPSK	75	0	21.92	21.97	21.80	-4.29	0.0579	0.0586	0.0564
15	16QAM	1	0	22.00	21.98	21.82	-4.29	0.0590	0.0587	0.0566
15	16QAM	1	74	21.88	21.63	21.69	-4.29	0.0574	0.0542	0.0550
15	16QAM	75	0	20.91	20.96	20.78	-4.29	0.0459	0.0465	0.0446
15	64QAM	1	0	20.58	20.65	20.58	-4.29	0.0426	0.0433	0.0426
15	64QAM	1	74	20.60	20.61	20.42	-4.29	0.0428	0.0429	0.0410
15	64QAM	75	0	20.12	20.13	19.99	-4.29	0.0383	0.0384	0.0372
15	256QAM	1	0	17.81	17.89	17.85	-4.29	0.0225	0.0229	0.0227
15	256QAM	1	74	17.85	17.87	17.76	-4.29	0.0227	0.0228	0.0222
15	256QAM	75	0	17.97	18.10	18.02	-4.29	0.0233	0.0240	0.0236
Channel				43640	44090	44540	Gain	EIRP(W)		
Frequency (MHz)				3605	3650	3695		L	M	H
10	QPSK	1	0	22.97	22.98	22.96	-4.29	0.0738	0.0740	0.0736
10	QPSK	1	49	22.98	22.90	22.73	-4.29	0.0740	0.0726	0.0698
10	QPSK	50	0	21.94	21.96	21.87	-4.29	0.0582	0.0585	0.0573
10	16QAM	1	0	21.89	22.02	21.84	-4.29	0.0575	0.0593	0.0569
10	16QAM	1	49	21.70	21.91	21.75	-4.29	0.0551	0.0578	0.0557
10	16QAM	50	0	20.92	20.98	20.90	-4.29	0.0460	0.0467	0.0458
10	64QAM	1	0	20.60	20.66	20.55	-4.29	0.0428	0.0434	0.0423
10	64QAM	1	49	20.64	20.67	20.47	-4.29	0.0432	0.0435	0.0415
10	64QAM	50	0	20.13	20.16	20.10	-4.29	0.0384	0.0386	0.0381
10	256QAM	1	0	17.92	17.91	17.83	-4.29	0.0231	0.0230	0.0226
10	256QAM	1	49	17.89	17.90	17.76	-4.29	0.0229	0.0230	0.0222
10	256QAM	50	0	18.09	18.17	18.02	-4.29	0.0240	0.0244	0.0236
Channel				43615	44090	44565	Gain	EIRP(W)		
Frequency (MHz)				3602.5	3650	3697.5		L	M	H
5	QPSK	1	0	22.94	22.97	22.97	-4.29	0.0733	0.0738	0.0738
5	QPSK	1	24	22.93	22.93	22.71	-4.29	0.0731	0.0731	0.0695



5	QPSK	25	0	21.81	21.99	21.82	-4.29	0.0565	0.0589	0.0566
5	16QAM	1	0	22.12	21.66	22.14	-4.29	0.0607	0.0546	0.0610
5	16QAM	1	24	21.58	21.95	21.74	-4.29	0.0536	0.0583	0.0556
5	16QAM	25	0	20.85	21.03	20.86	-4.29	0.0453	0.0472	0.0454
5	64QAM	1	0	20.35	20.57	20.54	-4.29	0.0404	0.0425	0.0422
5	64QAM	1	24	20.49	20.65	20.45	-4.29	0.0417	0.0433	0.0413
5	64QAM	25	0	20.02	20.19	19.96	-4.29	0.0374	0.0389	0.0369
5	256QAM	1	0	17.70	17.85	17.67	-4.29	0.0219	0.0227	0.0218
5	256QAM	1	24	17.70	17.79	17.61	-4.29	0.0219	0.0224	0.0215
5	256QAM	25	0	17.95	18.14	17.87	-4.29	0.0232	0.0243	0.0228



LTE Band 48 (Ant.6):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	for EMC Power Middle Ch. / Freq.	Power High Ch. / Freq.	Gain	EIRP(W)		
Channel				55340	55990	56640		L	M	H
Frequency (MHz)				3560	3625	3690				
20	QPSK	1	0	23.65	23.89	23.68	-4.29	0.0863	0.0912	0.0869
20	QPSK	1	99	23.54	23.72	23.72	-4.29	0.0841	0.0877	0.0877
20	QPSK	100	0	22.62	22.60	22.96	-4.29	0.0681	0.0678	0.0736
20	16QAM	1	0	22.64	22.58	22.83	-4.29	0.0684	0.0675	0.0714
20	16QAM	1	99	22.65	22.39	22.68	-4.29	0.0685	0.0646	0.0690
20	16QAM	100	0	21.97	21.73	22.02	-4.29	0.0586	0.0555	0.0593
20	64QAM	1	0	21.44	21.35	21.57	-4.29	0.0519	0.0508	0.0535
20	64QAM	1	99	21.53	21.29	21.56	-4.29	0.0530	0.0501	0.0533
20	64QAM	100	0	20.95	20.71	20.98	-4.29	0.0463	0.0439	0.0467
20	256QAM	1	0	18.58	18.56	18.85	-4.29	0.0269	0.0267	0.0286
20	256QAM	1	99	18.66	18.42	18.71	-4.29	0.0274	0.0259	0.0277
20	256QAM	100	0	18.88	18.65	18.94	-4.29	0.0288	0.0273	0.0292
Channel				55315	55990	56665	Gain	EIRP(W)		
Frequency (MHz)				3557.5	3625	3692.5		L	M	H
15	QPSK	1	0	23.71	23.72	23.84	-4.29	0.0875	0.0877	0.0902
15	QPSK	1	74	23.64	23.48	23.71	-4.29	0.0861	0.0830	0.0875
15	QPSK	75	0	22.75	22.58	22.88	-4.29	0.0701	0.0675	0.0723
15	16QAM	1	0	22.63	22.75	22.88	-4.29	0.0682	0.0701	0.0723
15	16QAM	1	74	22.66	22.45	22.73	-4.29	0.0687	0.0655	0.0698
15	16QAM	75	0	21.91	21.76	22.02	-4.29	0.0578	0.0558	0.0593
15	64QAM	1	0	21.58	21.50	21.68	-4.29	0.0536	0.0526	0.0548
15	64QAM	1	74	21.54	21.37	21.64	-4.29	0.0531	0.0511	0.0543
15	64QAM	75	0	20.93	20.79	21.04	-4.29	0.0461	0.0447	0.0473
15	256QAM	1	0	18.69	18.62	18.81	-4.29	0.0275	0.0271	0.0283
15	256QAM	1	74	18.68	18.48	18.75	-4.29	0.0275	0.0262	0.0279
15	256QAM	75	0	18.91	18.68	19.03	-4.29	0.0290	0.0275	0.0298
Channel				55290	55990	56690	Gain	EIRP(W)		
Frequency (MHz)				3555	3625	3695		L	M	H
10	QPSK	1	0	23.75	23.69	23.81	-4.29	0.0883	0.0871	0.0895
10	QPSK	1	49	23.69	23.51	23.77	-4.29	0.0871	0.0836	0.0887
10	QPSK	50	0	22.77	22.64	22.87	-4.29	0.0705	0.0684	0.0721
10	16QAM	1	0	22.76	22.62	22.65	-4.29	0.0703	0.0681	0.0685
10	16QAM	1	49	22.71	22.53	22.78	-4.29	0.0695	0.0667	0.0706
10	16QAM	50	0	21.96	21.82	22.05	-4.29	0.0585	0.0566	0.0597
10	64QAM	1	0	21.62	21.49	21.70	-4.29	0.0541	0.0525	0.0551
10	64QAM	1	49	21.61	21.40	21.68	-4.29	0.0540	0.0514	0.0548
10	64QAM	50	0	20.98	20.83	21.07	-4.29	0.0467	0.0451	0.0476
10	256QAM	1	0	18.77	18.63	18.83	-4.29	0.0281	0.0272	0.0284
10	256QAM	1	49	18.73	18.53	18.81	-4.29	0.0278	0.0265	0.0283
10	256QAM	50	0	18.93	18.77	19.05	-4.29	0.0291	0.0281	0.0299
Channel				55265	55990	56715	Gain	EIRP(W)		
Frequency (MHz)				3552.5	3625	3697.5		L	M	H
5	QPSK	1	0	23.76	23.78	23.85	-4.29	0.0885	0.0889	0.0904
5	QPSK	1	24	23.73	23.55	23.84	-4.29	0.0879	0.0843	0.0902



5	QPSK	25	0	22.78	22.62	22.85	-4.29	0.0706	0.0681	0.0718
5	16QAM	1	0	22.73	22.69	22.84	-4.29	0.0698	0.0692	0.0716
5	16QAM	1	24	22.81	22.54	22.81	-4.29	0.0711	0.0668	0.0711
5	16QAM	25	0	22.02	21.84	22.08	-4.29	0.0593	0.0569	0.0601
5	64QAM	1	0	21.65	21.46	21.71	-4.29	0.0545	0.0521	0.0552
5	64QAM	1	24	21.63	21.43	21.69	-4.29	0.0542	0.0518	0.0550
5	64QAM	25	0	20.92	20.78	21.04	-4.29	0.0460	0.0446	0.0473
5	256QAM	1	0	18.75	18.62	18.83	-4.29	0.0279	0.0271	0.0284
5	256QAM	1	24	18.73	18.52	18.83	-4.29	0.0278	0.0265	0.0284
5	256QAM	25	0	18.93	18.78	19.02	-4.29	0.0291	0.0281	0.0297



LTE Band 42C_CA (Ant.0):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Gain	EIRP(W)		
				L	M	H		L	M	H
20+20	Channel									
	QPSK	1RB01RBMAX		9.01	9.04	9.02	-4.29	0.0030	0.0030	0.0030
	QPSK	1RBMAX1RB0		17.80	17.92	17.91	-4.29	0.0224	0.0231	0.0230
	QPSK	FULL		19.93	20.02	20.08	-4.29	0.0366	0.0374	0.0379
	16QAM	1RB01RBMAX		8.99	9.01	9.05	-4.29	0.0030	0.0030	0.0030
	16QAM	1RBMAX1RB0		16.91	16.95	16.99	-4.29	0.0183	0.0185	0.0186
	16QAM	FULL		18.98	19.02	19.15	-4.29	0.0294	0.0297	0.0306
	64QAM	1RB01RBMAX		8.69	8.89	8.72	-4.29	0.0028	0.0029	0.0028
	64QAM	1RBMAX1RB0		14.57	14.70	14.67	-4.29	0.0107	0.0110	0.0109
	64QAM	FULL		18.94	19.10	19.14	-4.29	0.0292	0.0303	0.0305
	256QAM	1RB01RBMAX		8.90	8.81	8.91	-4.29	0.0029	0.0028	0.0029
	256QAM	1RBMAX1RB0		12.74	12.79	12.79	-4.29	0.0070	0.0071	0.0071
256QAM	FULL		16.98	17.03	17.06	-4.29	0.0186	0.0188	0.0189	
20+15	QPSK	1RB01RBMAX		9.15	9.10	9.14	-4.29	0.0031	0.0030	0.0031
	QPSK	1RBMAX1RB0		18.04	17.98	18.02	-4.29	0.0237	0.0234	0.0236
	QPSK	FULL		19.90	19.96	19.98	-4.29	0.0364	0.0369	0.0371
	16QAM	1RB01RBMAX		9.18	9.21	9.12	-4.29	0.0031	0.0031	0.0030
	16QAM	1RBMAX1RB0		17.12	17.01	17.06	-4.29	0.0192	0.0187	0.0189
	16QAM	FULL		19.21	19.12	19.05	-4.29	0.0310	0.0304	0.0299
	64QAM	1RB01RBMAX		8.85	8.95	8.95	-4.29	0.0029	0.0029	0.0029
	64QAM	1RBMAX1RB0		14.80	14.73	14.82	-4.29	0.0112	0.0111	0.0113
	64QAM	FULL		19.12	19.05	19.11	-4.29	0.0304	0.0299	0.0303
	256QAM	1RB01RBMAX		9.04	8.87	8.94	-4.29	0.0030	0.0029	0.0029
	256QAM	1RBMAX1RB0		12.92	12.87	12.89	-4.29	0.0073	0.0072	0.0072
	256QAM	FULL		17.15	17.12	17.14	-4.29	0.0193	0.0192	0.0193
20+10	QPSK	1RB01RBMAX		8.97	9.13	9.03	-4.29	0.0029	0.0030	0.0030
	QPSK	1RBMAX1RB0		17.85	18.01	17.82	-4.29	0.0227	0.0236	0.0225
	QPSK	FULL		19.94	20.05	19.91	-4.29	0.0367	0.0377	0.0365
	16QAM	1RB01RBMAX		8.94	9.13	9.01	-4.29	0.0029	0.0030	0.0030
	16QAM	1RBMAX1RB0		16.88	17.07	16.93	-4.29	0.0182	0.0190	0.0184
	16QAM	FULL		18.96	19.96	18.95	-4.29	0.0293	0.0369	0.0292
	64QAM	1RB01RBMAX		8.82	8.90	8.71	-4.29	0.0028	0.0029	0.0028
	64QAM	1RBMAX1RB0		14.63	14.78	14.59	-4.29	0.0108	0.0112	0.0107
	64QAM	FULL		18.98	19.02	19.11	-4.29	0.0294	0.0297	0.0303
	256QAM	1RB01RBMAX		8.74	8.96	8.92	-4.29	0.0028	0.0029	0.0029
	256QAM	1RBMAX1RB0		12.72	12.89	12.76	-4.29	0.0070	0.0072	0.0070
	256QAM	FULL		16.95	17.10	16.98	-4.29	0.0185	0.0191	0.0186
20+5	QPSK	1RB01RBMAX		9.04	9.19	9.08	-4.29	0.0030	0.0031	0.0030
	QPSK	1RBMAX1RB0		17.93	17.89	17.92	-4.29	0.0231	0.0229	0.0231
	QPSK	FULL		20.01	20.07	19.96	-4.29	0.0373	0.0378	0.0369
	16QAM	1RB01RBMAX		9.07	8.89	9.01	-4.29	0.0030	0.0029	0.0030
	16QAM	1RBMAX1RB0		17.01	16.97	16.95	-4.29	0.0187	0.0185	0.0185
	16QAM	FULL		19.15	19.20	19.06	-4.29	0.0306	0.0310	0.0300
	64QAM	1RB01RBMAX		8.74	9.05	8.89	-4.29	0.0028	0.0030	0.0029
	64QAM	1RBMAX1RB0		14.69	14.93	14.70	-4.29	0.0110	0.0116	0.0110
	64QAM	FULL		19.12	19.10	19.02	-4.29	0.0304	0.0303	0.0297
	256QAM	1RB01RBMAX		8.93	9.02	8.81	-4.29	0.0029	0.0030	0.0028



	256QAM	1RBMAX1RB0	12.81	12.88	12.79	-4.29	0.0071	0.0072	0.0071
	256QAM	FULL	17.12	17.01	16.95	-4.29	0.0192	0.0187	0.0185
15+20	QPSK	1RB01RBMAX	9.13	9.19	9.08	-4.29	0.0030	0.0031	0.0030
	QPSK	1RBMAX1RB0	18.01	17.98	17.96	-4.29	0.0236	0.0234	0.0233
	QPSK	FULL	19.92	20.05	19.99	-4.29	0.0366	0.0377	0.0372
	16QAM	1RB01RBMAX	9.24	9.17	9.05	-4.29	0.0031	0.0031	0.0030
	16QAM	1RBMAX1RB0	17.04	17.09	16.99	-4.29	0.0188	0.0191	0.0186
	16QAM	FULL	19.12	19.16	19.10	-4.29	0.0304	0.0307	0.0303
	64QAM	1RB01RBMAX	8.98	8.87	8.93	-4.29	0.0029	0.0029	0.0029
	64QAM	1RBMAX1RB0	14.76	14.75	14.74	-4.29	0.0111	0.0111	0.0111
	64QAM	FULL	18.72	18.64	18.55	-4.29	0.0277	0.0272	0.0267
	256QAM	1RB01RBMAX	8.90	9.08	8.85	-4.29	0.0029	0.0030	0.0029
	256QAM	1RBMAX1RB0	12.90	12.92	12.83	-4.29	0.0073	0.0073	0.0071
	256QAM	FULL	17.02	17.10	17.08	-4.29	0.0187	0.0191	0.0190
10+20	QPSK	1RB01RBMAX	9.04	9.11	9.15	-4.29	0.0030	0.0030	0.0031
	QPSK	1RBMAX1RB0	17.86	18.05	17.99	-4.29	0.0228	0.0238	0.0234
	QPSK	FULL	19.95	19.87	19.93	-4.29	0.0368	0.0361	0.0366
	16QAM	1RB01RBMAX	8.81	8.89	9.00	-4.29	0.0028	0.0029	0.0030
	16QAM	1RBMAX1RB0	16.91	17.07	16.88	-4.29	0.0183	0.0190	0.0182
	16QAM	FULL	18.71	18.84	18.89	-4.29	0.0277	0.0285	0.0288
	64QAM	1RB01RBMAX	8.69	8.70	8.83	-4.29	0.0028	0.0028	0.0028
	64QAM	1RBMAX1RB0	14.60	14.73	14.71	-4.29	0.0107	0.0111	0.0110
	64QAM	FULL	18.55	18.42	18.46	-4.29	0.0267	0.0259	0.0261
	256QAM	1RB01RBMAX	8.61	8.59	8.72	-4.29	0.0027	0.0027	0.0028
	256QAM	1RBMAX1RB0	12.74	12.89	12.81	-4.29	0.0070	0.0072	0.0071
	256QAM	FULL	16.72	16.81	13.89	-4.29	0.0175	0.0179	0.0091
5+20	QPSK	1RB01RBMAX	8.86	8.91	9.08	-4.29	0.0029	0.0029	0.0030
	QPSK	1RBMAX1RB0	17.96	18.02	17.81	-4.29	0.0233	0.0236	0.0225
	QPSK	FULL	19.82	19.77	19.86	-4.29	0.0357	0.0353	0.0361
	16QAM	1RB01RBMAX	8.76	8.99	8.76	-4.29	0.0028	0.0030	0.0028
	16QAM	1RBMAX1RB0	16.90	16.99	16.85	-4.29	0.0182	0.0186	0.0180
	16QAM	FULL	18.61	18.86	18.89	-4.29	0.0270	0.0286	0.0288
	64QAM	1RB01RBMAX	8.64	8.73	8.64	-4.29	0.0027	0.0028	0.0027
	64QAM	1RBMAX1RB0	14.45	14.51	14.45	-4.29	0.0104	0.0105	0.0104
	64QAM	FULL	18.55	18.71	18.69	-4.29	0.0267	0.0277	0.0275
	256QAM	1RB01RBMAX	8.76	8.85	8.76	-4.29	0.0028	0.0029	0.0028
	256QAM	1RBMAX1RB0	12.74	12.85	12.74	-4.29	0.0070	0.0072	0.0070
	256QAM	FULL	16.68	16.71	16.82	-4.29	0.0173	0.0175	0.0179



LTE Band 43C_CA (Ant.0):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low	for EMC	Power High	Gain	EIRP(W)		
				Ch. / Freq.	Power Middle	Ch. / Freq.		L	M	H
Channel				L	M	H				
20+20	QPSK	1RB01RBMAX		10.19	10.16	10.22	-4.29	0.0039	0.0039	0.0039
	QPSK	1RBMAX1RB0		18.80	18.91	18.95	-4.29	0.0282	0.0290	0.0292
	QPSK	FULL		18.89	18.83	19.02	-4.29	0.0288	0.0284	0.0297
	16QAM	1RB01RBMAX		10.08	10.10	10.16	-4.29	0.0038	0.0038	0.0039
	16QAM	1RBMAX1RB0		17.96	17.81	17.93	-4.29	0.0233	0.0225	0.0231
	16QAM	FULL		18.15	18.06	18.11	-4.29	0.0243	0.0238	0.0241
	64QAM	1RB01RBMAX		9.85	9.78	9.86	-4.29	0.0036	0.0035	0.0036
	64QAM	1RBMAX1RB0		15.69	15.76	15.77	-4.29	0.0138	0.0140	0.0141
	64QAM	FULL		17.96	17.85	18.01	-4.29	0.0233	0.0227	0.0236
	256QAM	1RB01RBMAX		10.02	9.97	10.04	-4.29	0.0037	0.0037	0.0038
	256QAM	1RBMAX1RB0		13.87	13.90	13.93	-4.29	0.0091	0.0091	0.0092
	256QAM	FULL		17.07	17.09	17.11	-4.29	0.0190	0.0191	0.0191
5+20	QPSK	1RB01RBMAX		10.26	10.17	10.20	-4.29	0.0040	0.0039	0.0039
	QPSK	1RBMAX1RB0		18.94	18.92	18.81	-4.29	0.0292	0.0290	0.0283
	QPSK	FULL		21.02	21.06	20.98	-4.29	0.0471	0.0475	0.0467
	16QAM	1RB01RBMAX		10.18	10.11	10.09	-4.29	0.0039	0.0038	0.0038
	16QAM	1RBMAX1RB0		17.97	17.82	17.97	-4.29	0.0233	0.0225	0.0233
	16QAM	FULL		20.15	20.19	20.11	-4.29	0.0385	0.0389	0.0382
	64QAM	1RB01RBMAX		9.90	9.79	9.86	-4.29	0.0036	0.0035	0.0036
	64QAM	1RBMAX1RB0		15.81	15.77	15.70	-4.29	0.0142	0.0141	0.0138
	64QAM	FULL		20.17	20.11	20.13	-4.29	0.0387	0.0382	0.0384
	256QAM	1RB01RBMAX		10.08	9.98	10.03	-4.29	0.0038	0.0037	0.0037
	256QAM	1RBMAX1RB0		13.97	13.91	13.88	-4.29	0.0093	0.0092	0.0091
	256QAM	FULL		18.13	18.17	18.08	-4.29	0.0242	0.0244	0.0239



LTE Band 48C_CA (Ant.0):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low	for EMC	Power High	Gain	EIRP(W)		
				Ch. / Freq.	Power Middle	Ch. / Freq.		L	M	H
Channel				L	M	H				
20+20	QPSK	1RB01RBMAX		9.38	9.13	9.29	-4.29	0.0032	0.0030	0.0032
	QPSK	1RBMAX1RB0		18.05	17.84	18.09	-4.29	0.0238	0.0226	0.0240
	QPSK	FULL		20.23	20.18	20.26	-4.29	0.0393	0.0388	0.0395
	16QAM	1RB01RBMAX		9.24	9.19	9.21	-4.29	0.0031	0.0031	0.0031
	16QAM	1RBMAX1RB0		17.12	16.92	17.13	-4.29	0.0192	0.0183	0.0192
	16QAM	FULL		19.23	19.15	19.29	-4.29	0.0312	0.0306	0.0316
	64QAM	1RB01RBMAX		8.93	8.89	8.93	-4.29	0.0029	0.0029	0.0029
	64QAM	1RBMAX1RB0		14.90	14.68	14.87	-4.29	0.0115	0.0109	0.0114
	64QAM	FULL		19.12	19.10	19.22	-4.29	0.0304	0.0303	0.0311
	256QAM	1RB01RBMAX		9.04	9.12	9.12	-4.29	0.0030	0.0030	0.0030
	256QAM	1RBMAX1RB0		13.02	12.84	12.99	-4.29	0.0075	0.0072	0.0074
	256QAM	FULL		17.13	17.08	17.16	-4.29	0.0192	0.0190	0.0194
20+15	QPSK	1RB01RBMAX		9.33	9.10	9.21	-4.29	0.0032	0.0030	0.0031
	QPSK	1RBMAX1RB0		17.89	17.80	18.02	-4.29	0.0229	0.0224	0.0236
	QPSK	FULL		20.11	20.08	20.15	-4.29	0.0382	0.0379	0.0385
	16QAM	1RB01RBMAX		9.18	9.03	9.15	-4.29	0.0031	0.0030	0.0031
	16QAM	1RBMAX1RB0		17.06	16.86	17.07	-4.29	0.0189	0.0181	0.0190
	16QAM	FULL		19.17	19.09	19.23	-4.29	0.0308	0.0302	0.0312
	64QAM	1RB01RBMAX		8.87	8.83	8.87	-4.29	0.0029	0.0028	0.0029
	64QAM	1RBMAX1RB0		14.84	14.62	14.81	-4.29	0.0114	0.0108	0.0113
	64QAM	FULL		19.05	19.15	19.18	-4.29	0.0299	0.0306	0.0308
	256QAM	1RB01RBMAX		8.98	9.06	9.06	-4.29	0.0029	0.0030	0.0030
	256QAM	1RBMAX1RB0		12.96	12.78	12.93	-4.29	0.0074	0.0071	0.0073
	256QAM	FULL		17.09	17.13	17.07	-4.29	0.0191	0.0192	0.0190
20+10	QPSK	1RB01RBMAX		9.45	9.20	9.36	-4.29	0.0033	0.0031	0.0032
	QPSK	1RBMAX1RB0		18.12	17.91	18.16	-4.29	0.0242	0.0230	0.0244
	QPSK	FULL		20.29	20.16	20.36	-4.29	0.0398	0.0386	0.0405
	16QAM	1RB01RBMAX		9.31	9.26	9.28	-4.29	0.0032	0.0031	0.0032
	16QAM	1RBMAX1RB0		17.19	16.99	17.20	-4.29	0.0195	0.0186	0.0195
	16QAM	FULL		19.30	19.22	19.38	-4.29	0.0317	0.0311	0.0323
	64QAM	1RB01RBMAX		9.00	8.96	9.00	-4.29	0.0030	0.0029	0.0030
	64QAM	1RBMAX1RB0		14.97	14.75	14.94	-4.29	0.0117	0.0111	0.0116
	64QAM	FULL		19.19	19.15	19.27	-4.29	0.0309	0.0306	0.0315
	256QAM	1RB01RBMAX		9.11	9.19	9.19	-4.29	0.0030	0.0031	0.0031
	256QAM	1RBMAX1RB0		13.09	12.91	13.06	-4.29	0.0076	0.0073	0.0075
	256QAM	FULL		17.13	17.16	17.28	-4.29	0.0192	0.0194	0.0199
20+5	QPSK	1RB01RBMAX		9.41	9.16	9.32	-4.29	0.0033	0.0031	0.0032
	QPSK	1RBMAX1RB0		18.08	17.87	18.12	-4.29	0.0239	0.0228	0.0242
	QPSK	FULL		20.26	20.11	20.34	-4.29	0.0395	0.0382	0.0403
	16QAM	1RB01RBMAX		9.27	9.22	9.24	-4.29	0.0031	0.0031	0.0031
	16QAM	1RBMAX1RB0		17.15	16.95	17.16	-4.29	0.0193	0.0185	0.0194
	16QAM	FULL		19.26	19.18	19.30	-4.29	0.0314	0.0308	0.0317
	64QAM	1RB01RBMAX		8.79	8.75	8.79	-4.29	0.0028	0.0028	0.0028
	64QAM	1RBMAX1RB0		14.76	14.54	14.73	-4.29	0.0111	0.0106	0.0111
	64QAM	FULL		19.01	19.10	19.05	-4.29	0.0296	0.0303	0.0299

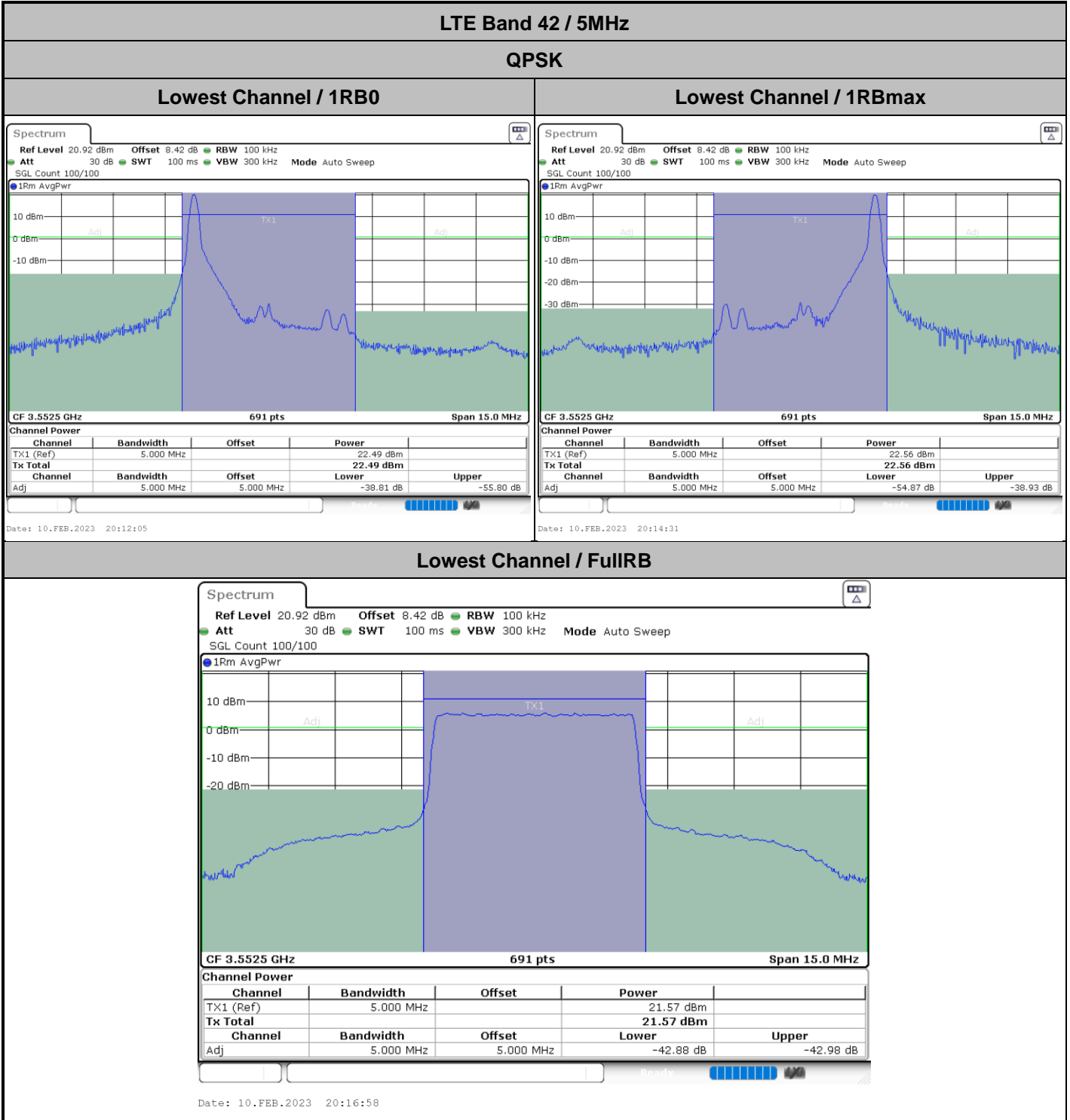


	256QAM	1RB01RBMAX	8.90	8.98	8.98	-4.29	0.0029	0.0029	0.0029
	256QAM	1RBMAX1RB0	12.88	12.70	12.85	-4.29	0.0072	0.0069	0.0072
	256QAM	FULL	16.96	19.05	19.11	-4.29	0.0185	0.0299	0.0303
15+20	QPSK	1RB01RBMAX	9.26	9.15	9.22	-4.29	0.0031	0.0031	0.0031
	QPSK	1RBMAX1RB0	18.05	17.86	18.07	-4.29	0.0238	0.0228	0.0239
	QPSK	FULL	20.20	20.08	20.31	-4.29	0.0390	0.0379	0.0400
	16QAM	1RB01RBMAX	9.22	9.03	9.16	-4.29	0.0031	0.0030	0.0031
	16QAM	1RBMAX1RB0	17.10	16.90	17.05	-4.29	0.0191	0.0182	0.0189
	16QAM	FULL	19.21	19.13	19.27	-4.29	0.0310	0.0305	0.0315
	64QAM	1RB01RBMAX	8.86	8.75	8.72	-4.29	0.0029	0.0028	0.0028
	64QAM	1RBMAX1RB0	14.71	14.49	14.68	-4.29	0.0110	0.0105	0.0109
	64QAM	FULL	18.96	18.93	19.05	-4.29	0.0293	0.0291	0.0299
	256QAM	1RB01RBMAX	8.85	8.93	8.93	-4.29	0.0029	0.0029	0.0029
	256QAM	1RBMAX1RB0	12.80	12.71	12.85	-4.29	0.0071	0.0070	0.0072
	256QAM	FULL	16.89	16.75	16.91	-4.29	0.0182	0.0176	0.0183
10+20	QPSK	1RB01RBMAX	9.33	9.15	9.27	-4.29	0.0032	0.0031	0.0031
	QPSK	1RBMAX1RB0	18.10	17.87	18.04	-4.29	0.0240	0.0228	0.0237
	QPSK	FULL	20.25	20.11	20.26	-4.29	0.0394	0.0382	0.0395
	16QAM	1RB01RBMAX	9.27	9.22	9.24	-4.29	0.0031	0.0031	0.0031
	16QAM	1RBMAX1RB0	17.15	16.95	17.16	-4.29	0.0193	0.0185	0.0194
	16QAM	FULL	19.20	19.15	19.32	-4.29	0.0310	0.0306	0.0318
	64QAM	1RB01RBMAX	8.96	8.92	8.96	-4.29	0.0029	0.0029	0.0029
	64QAM	1RBMAX1RB0	14.93	14.71	14.90	-4.29	0.0116	0.0110	0.0115
	64QAM	FULL	19.11	19.08	19.24	-4.29	0.0303	0.0301	0.0313
	256QAM	1RB01RBMAX	9.07	9.15	9.15	-4.29	0.0030	0.0031	0.0031
	256QAM	1RBMAX1RB0	13.05	12.87	13.02	-4.29	0.0075	0.0072	0.0075
	256QAM	FULL	17.12	17.05	17.11	-4.29	0.0192	0.0189	0.0191
5+20	QPSK	1RB01RBMAX	9.30	9.19	9.25	-4.29	0.0032	0.0031	0.0031
	QPSK	1RBMAX1RB0	18.01	17.86	18.05	-4.29	0.0236	0.0228	0.0238
	QPSK	FULL	20.31	20.18	20.24	-4.29	0.0400	0.0388	0.0394
	16QAM	1RB01RBMAX	9.24	9.13	9.17	-4.29	0.0031	0.0030	0.0031
	16QAM	1RBMAX1RB0	17.02	16.82	17.05	-4.29	0.0187	0.0179	0.0189
	16QAM	FULL	19.32	19.25	19.12	-4.29	0.0318	0.0313	0.0304
	64QAM	1RB01RBMAX	8.96	8.80	8.82	-4.29	0.0029	0.0028	0.0028
	64QAM	1RBMAX1RB0	14.78	14.70	14.91	-4.29	0.0112	0.0110	0.0115
	64QAM	FULL	19.16	19.08	19.03	-4.29	0.0307	0.0301	0.0298
	256QAM	1RB01RBMAX	9.12	8.90	8.91	-4.29	0.0030	0.0029	0.0029
	256QAM	1RBMAX1RB0	12.86	12.82	12.78	-4.29	0.0072	0.0071	0.0071
	256QAM	FULL	17.15	16.94	16.91	-4.29	0.0193	0.0184	0.0183



LTE Band 42

ACLR



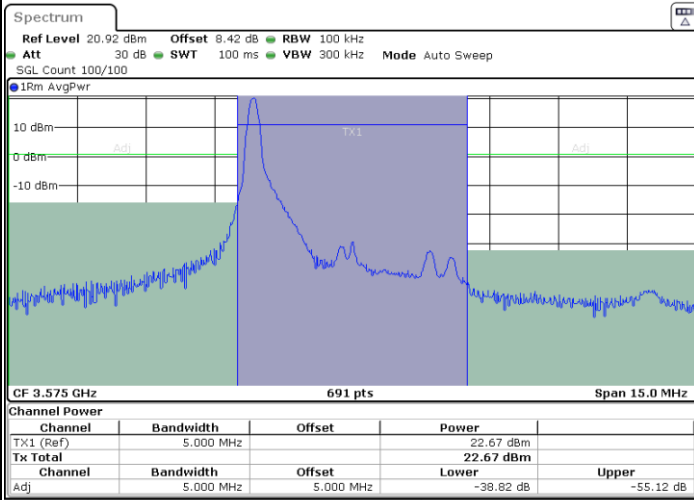


LTE Band 42 / 5MHz

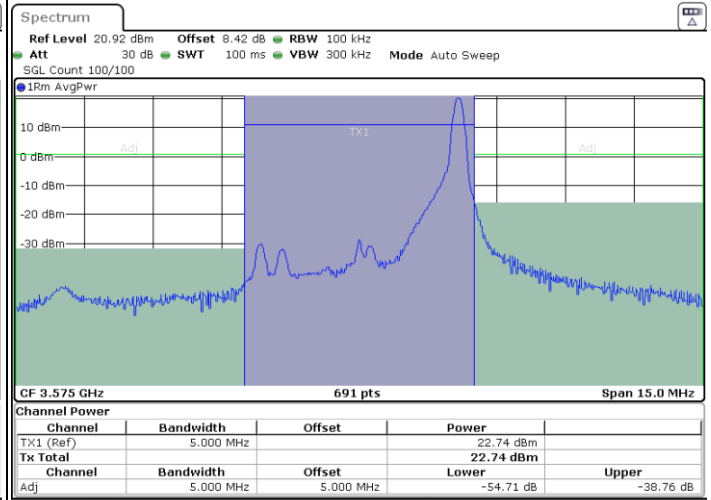
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax

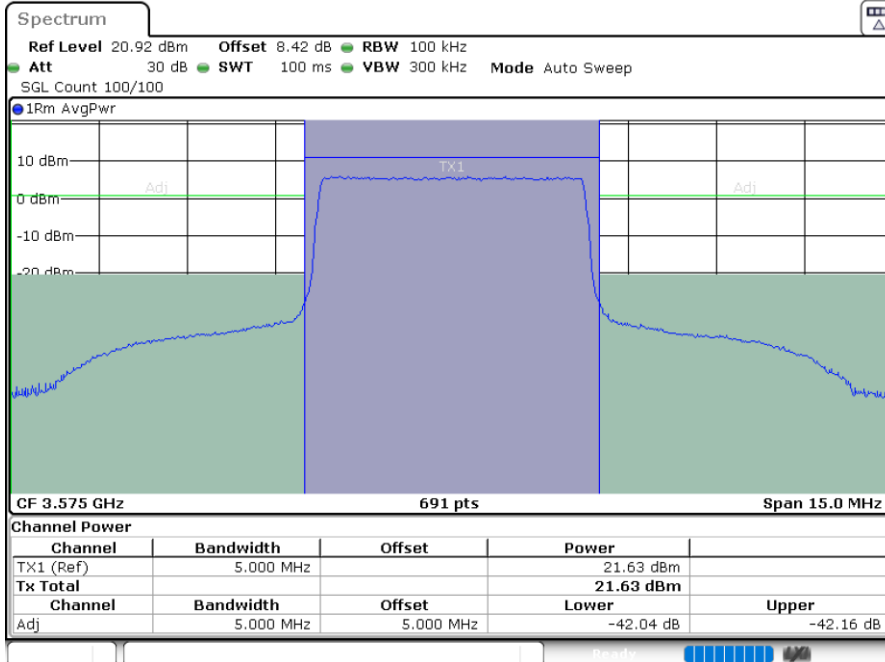


Date: 10.FEB.2023 20:19:25



Date: 10.FEB.2023 20:21:51

Middle Channel / FullRB



Date: 10.FEB.2023 20:24:17

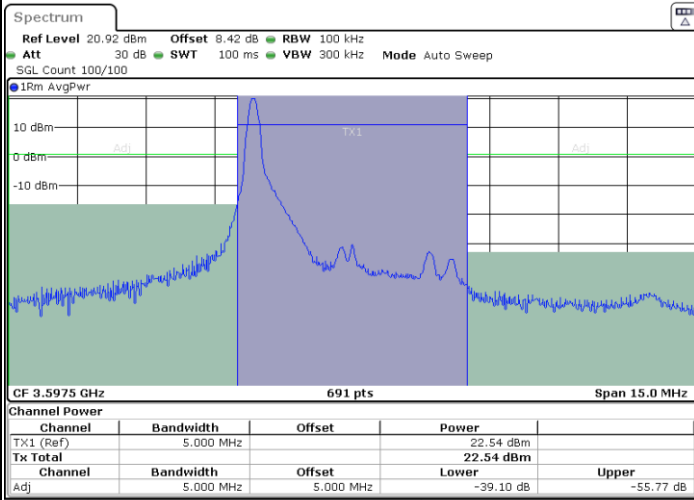


LTE Band 42 / 5MHz

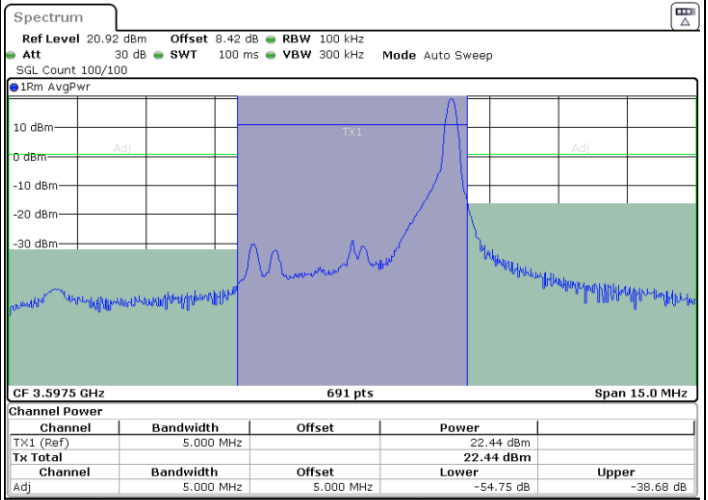
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

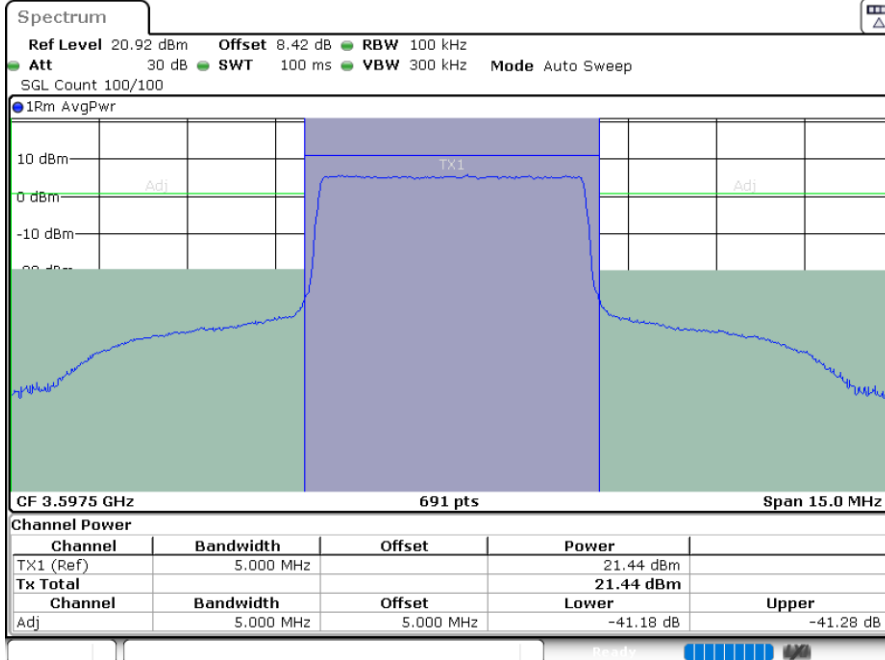


Date: 10.FEB.2023 20:29:02



Date: 10.FEB.2023 20:31:28

Highest Channel / FullRB



Date: 10.FEB.2023 20:33:55

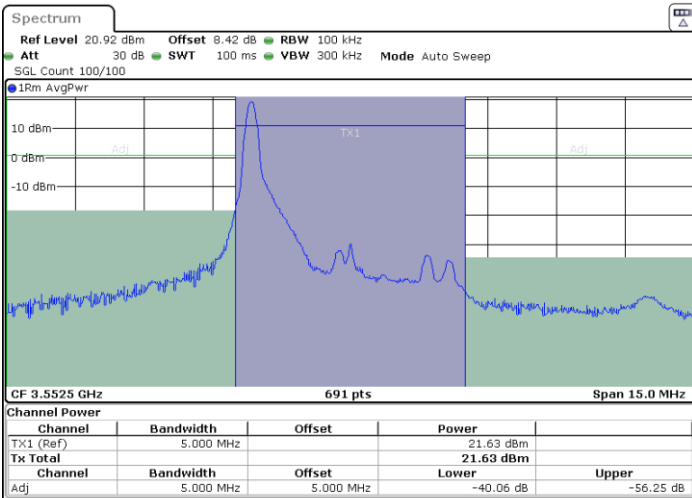


LTE Band 42 / 5MHz

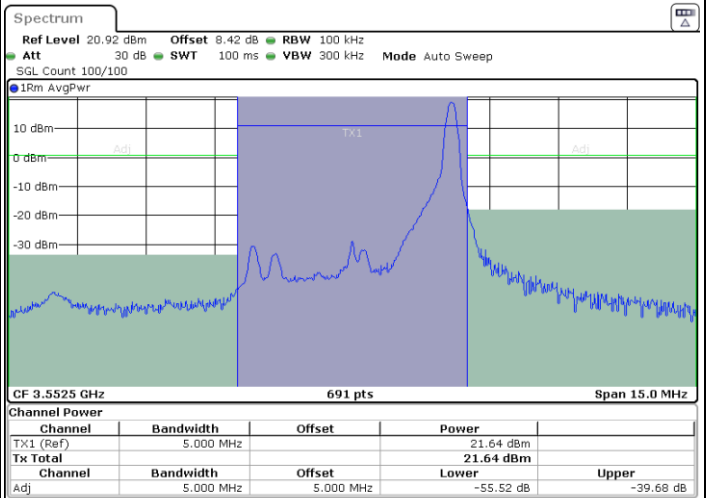
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

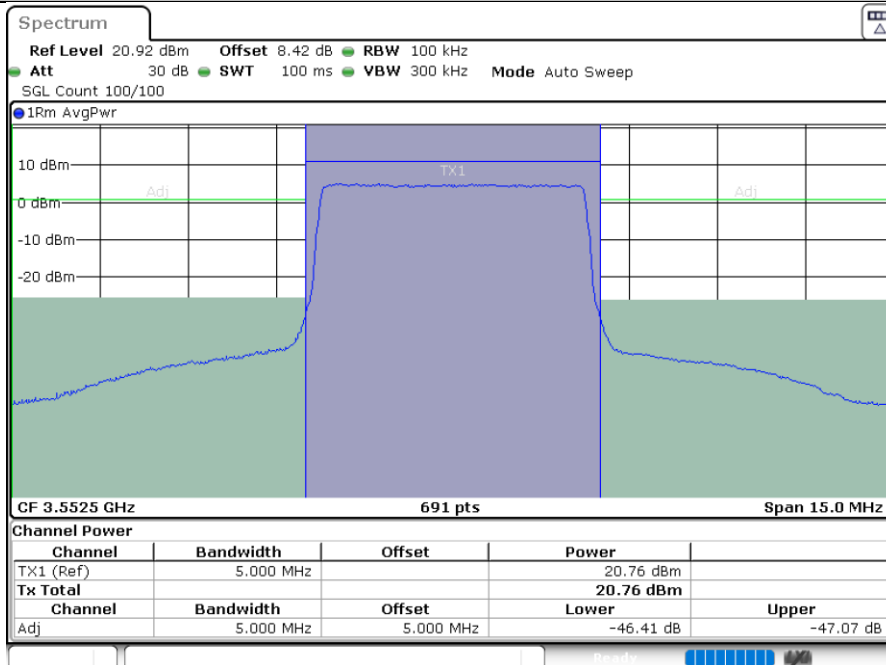


Date: 10.FEB.2023 20:12:42



Date: 10.FEB.2023 20:15:08

Lowest Channel / FullRB



Date: 10.FEB.2023 20:17:34

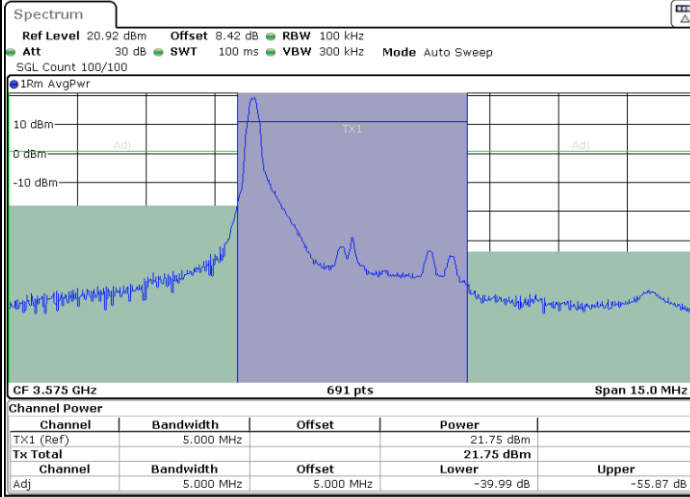


LTE Band 42 / 5MHz

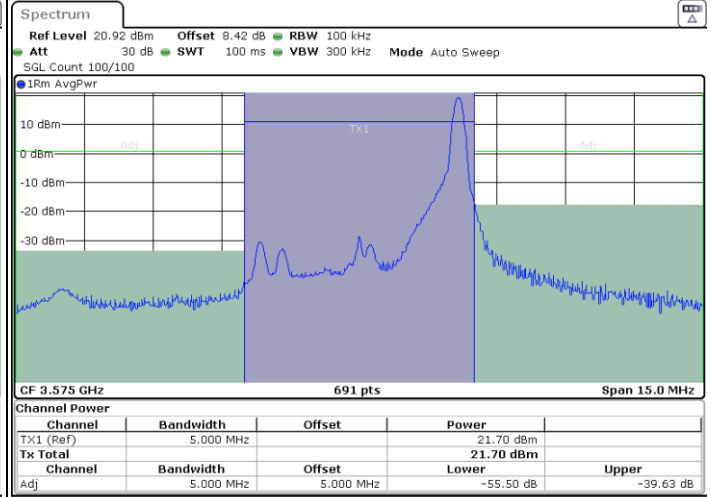
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

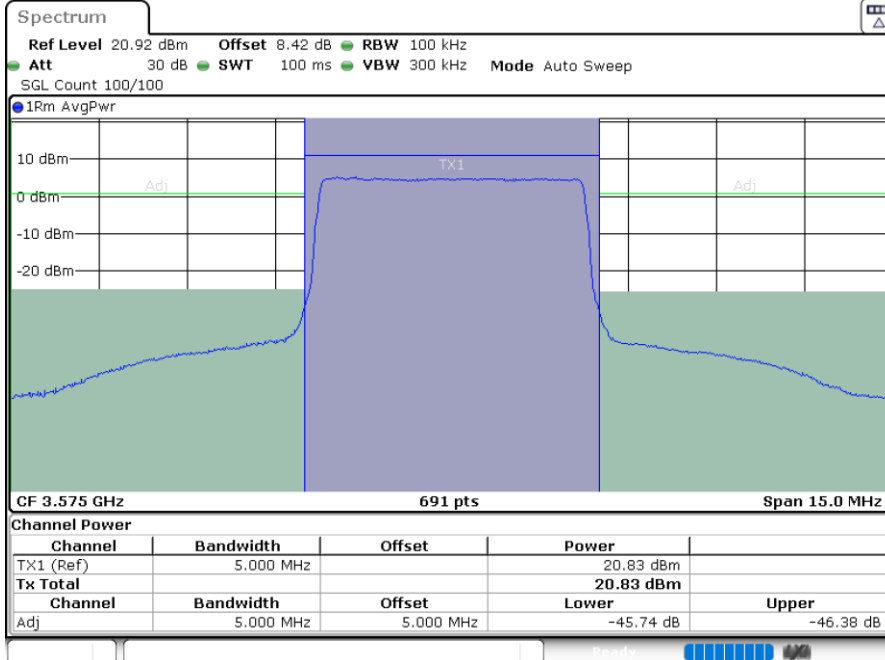


Date: 10.FEB.2023 20:20:01



Date: 10.FEB.2023 20:22:27

Middle Channel / FullRB



Date: 10.FEB.2023 20:24:54

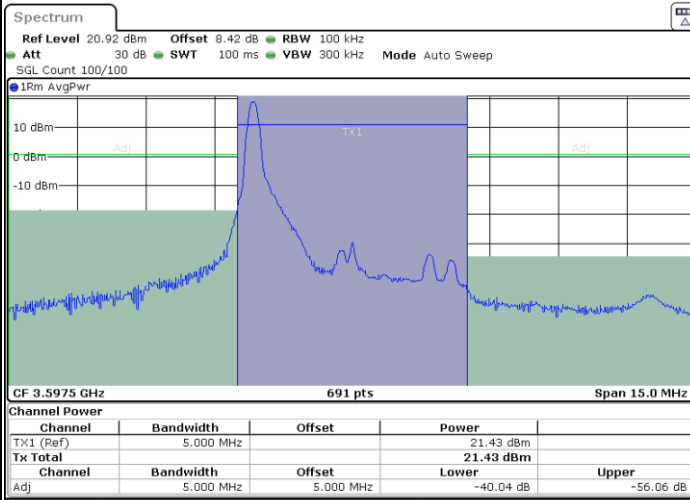


LTE Band 42 / 5MHz

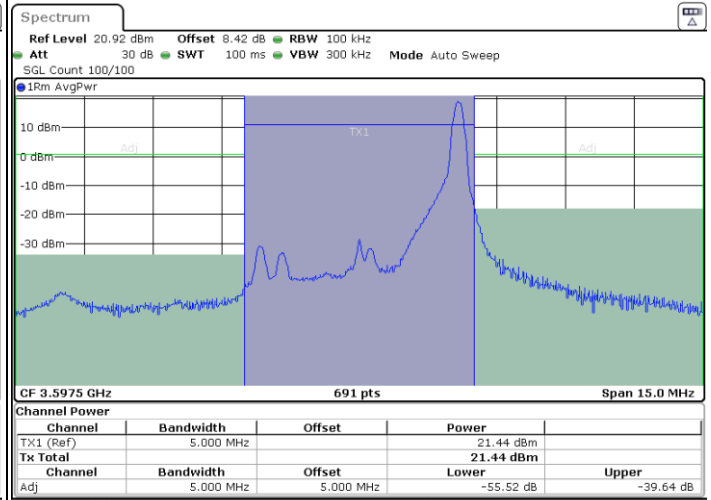
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

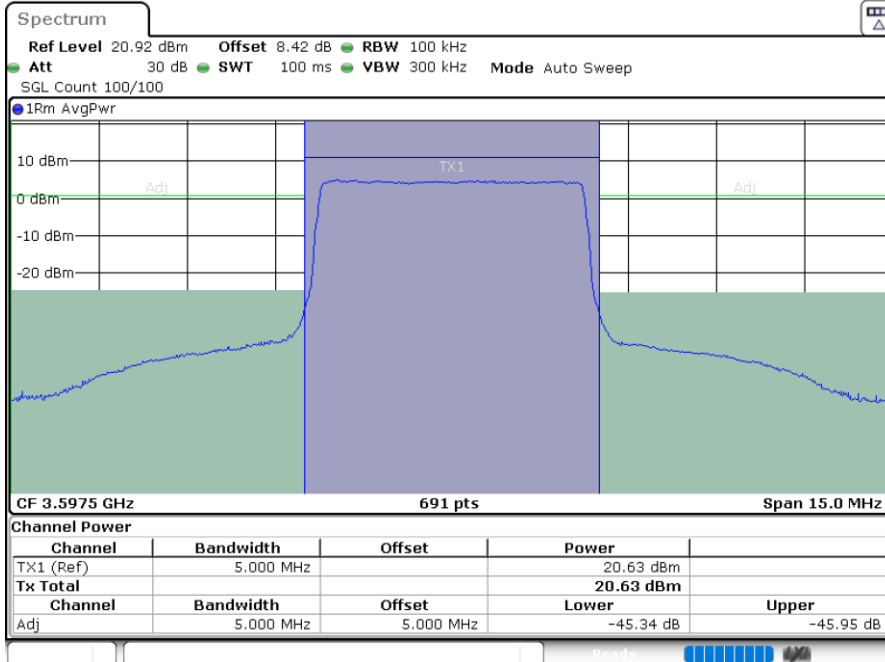


Date: 10.FEB.2023 20:29:39



Date: 10.FEB.2023 20:32:05

Highest Channel / FullRB



Date: 10.FEB.2023 20:34:31

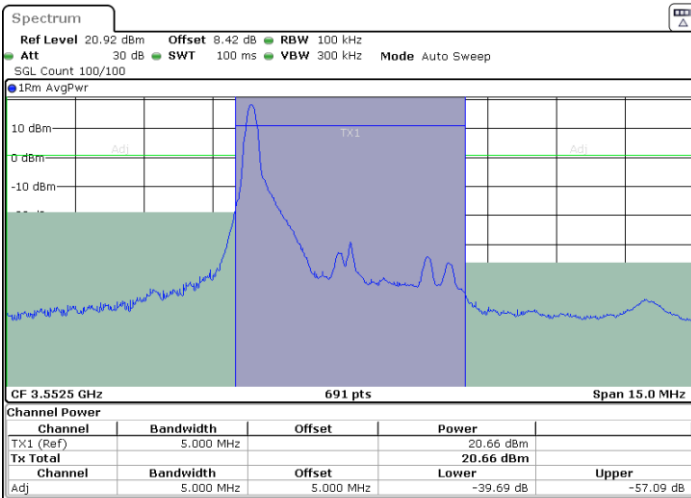


LTE Band 42 / 5MHz

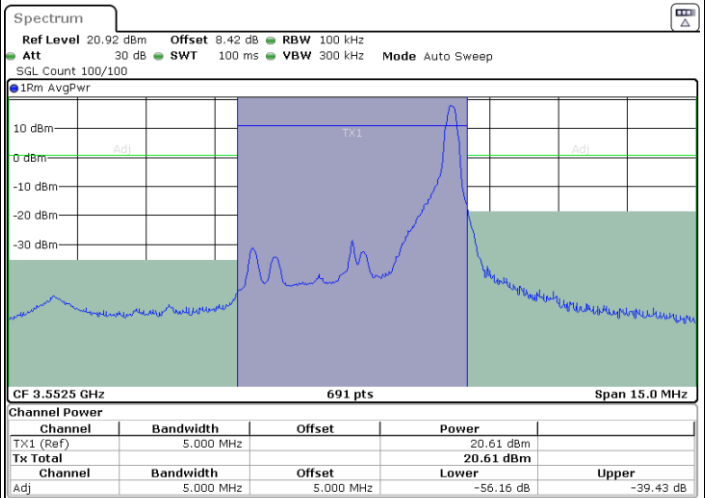
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

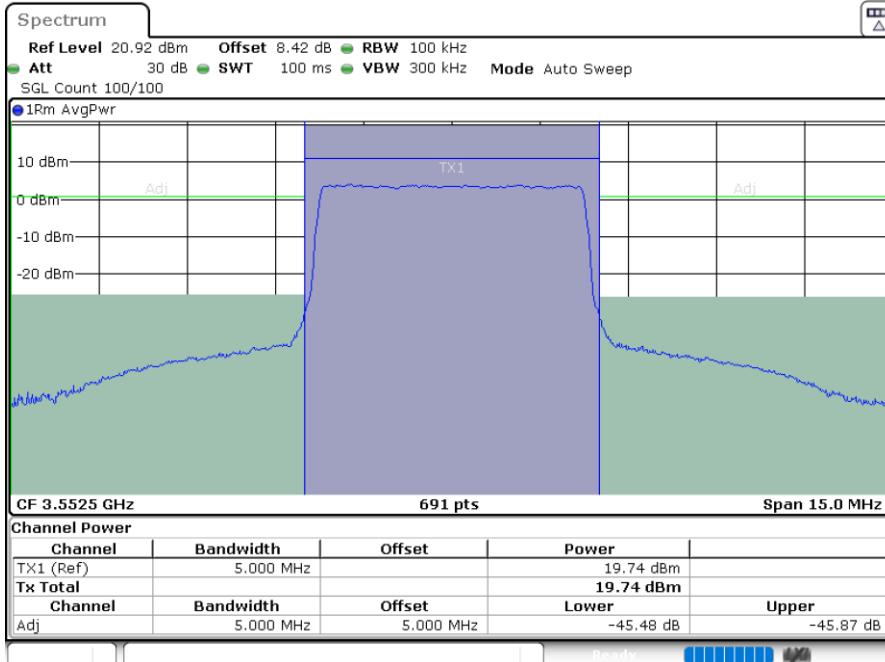


Date: 10.FEB.2023 20:13:19



Date: 10.FEB.2023 20:15:44

Lowest Channel / FullRB



Date: 10.FEB.2023 20:18:11

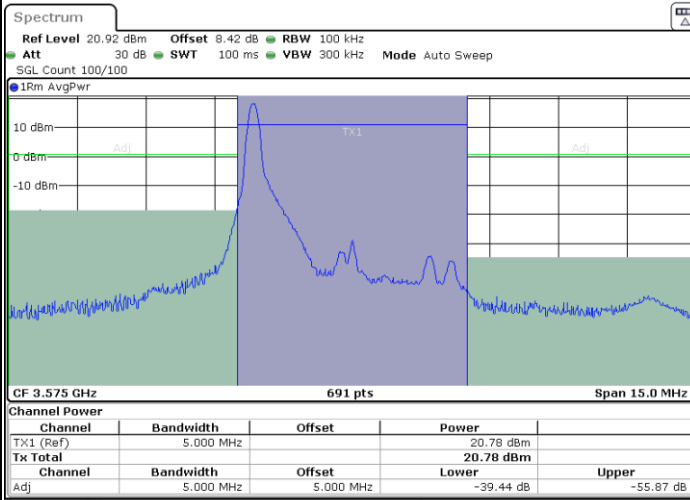


LTE Band 42 / 5MHz

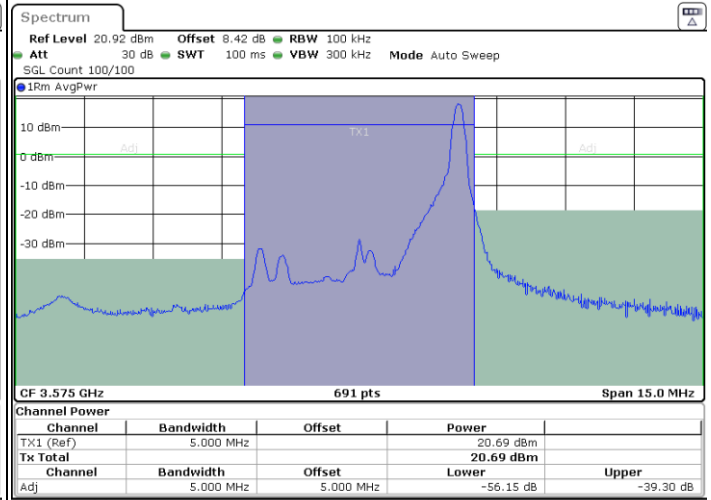
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

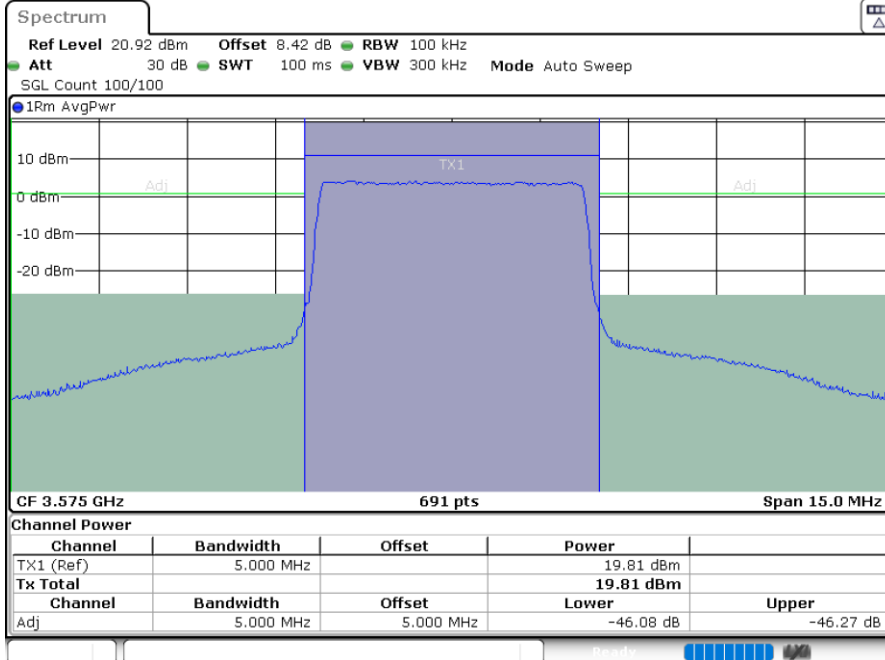


Date: 10.FEB.2023 20:20:38



Date: 10.FEB.2023 20:23:04

Middle Channel / FullRB



Date: 10.FEB.2023 20:25:30

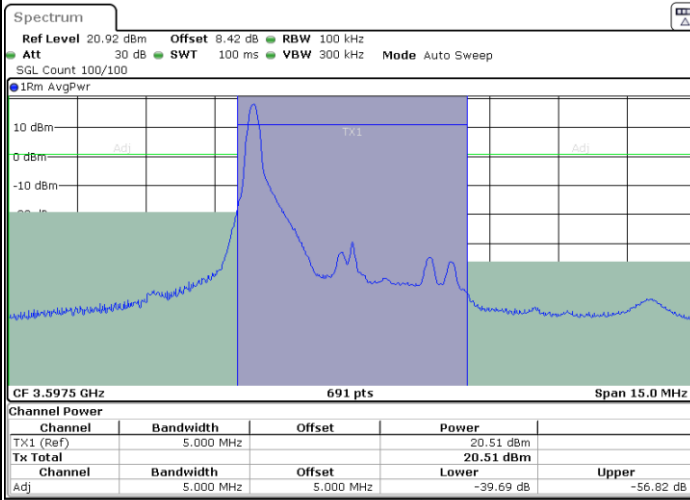


LTE Band 42 / 5MHz

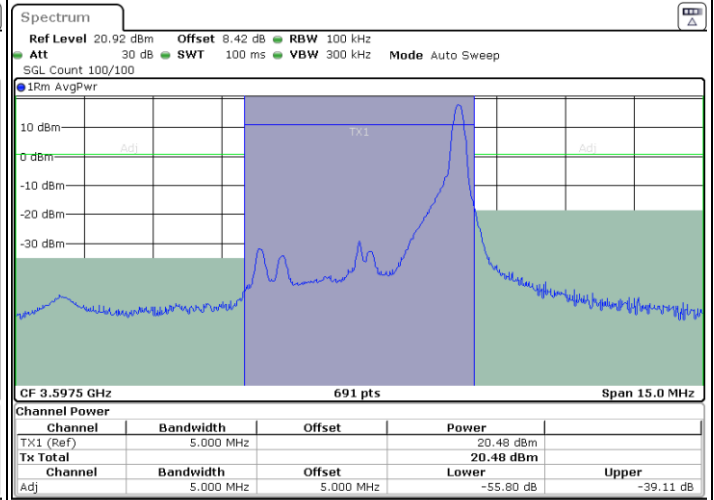
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

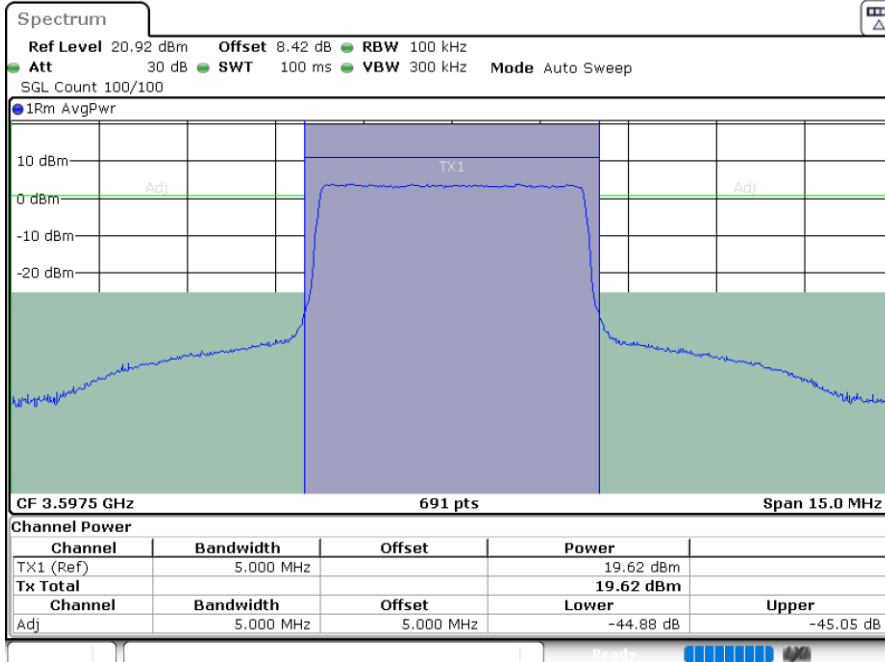


Date: 10.FEB.2023 20:30:15



Date: 10.FEB.2023 20:32:42

Highest Channel / FullRB



Date: 10.FEB.2023 20:35:07

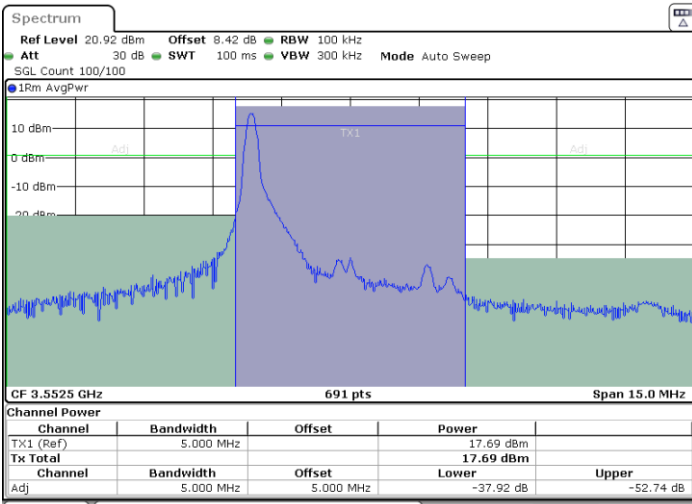


LTE Band 42 / 5MHz

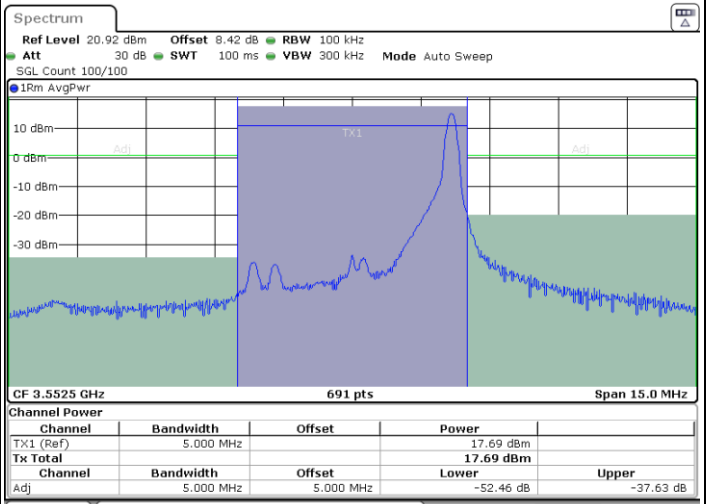
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

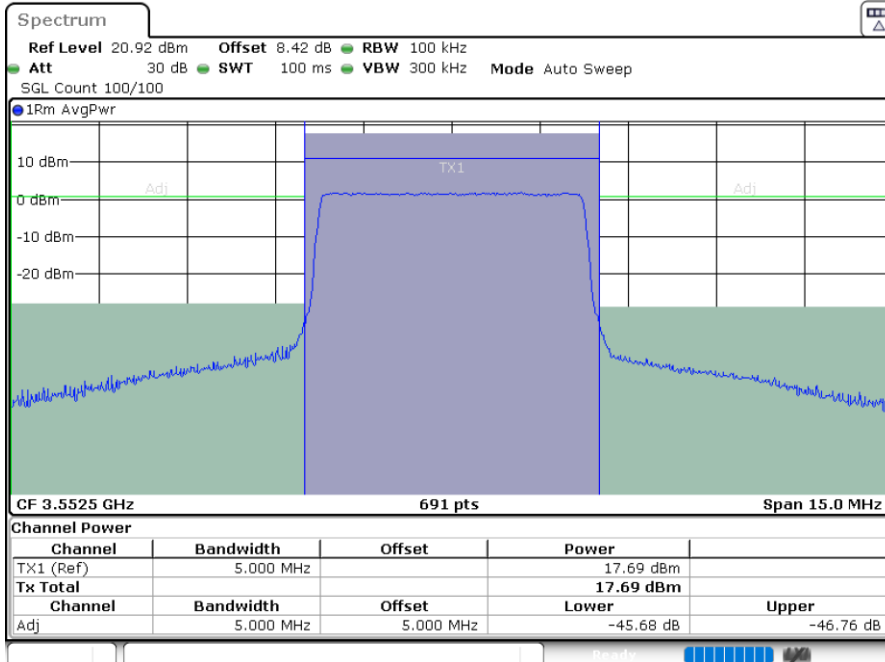


Date: 10.FEB.2023 20:13:55



Date: 10.FEB.2023 20:16:21

Lowest Channel / FullIRB



Date: 10.FEB.2023 20:18:48

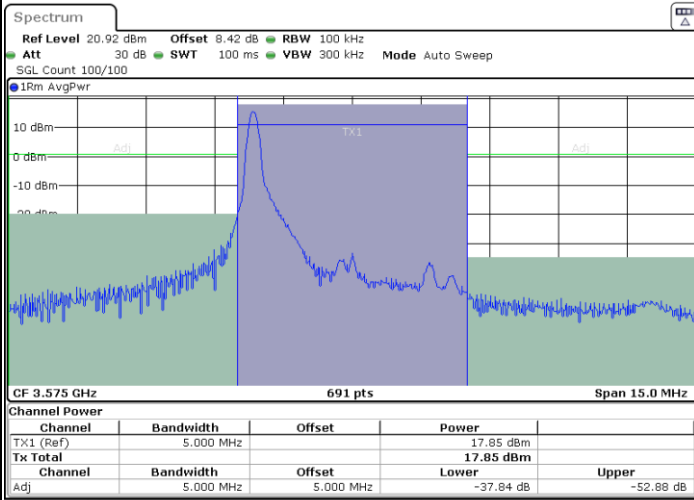


LTE Band 42 / 5MHz

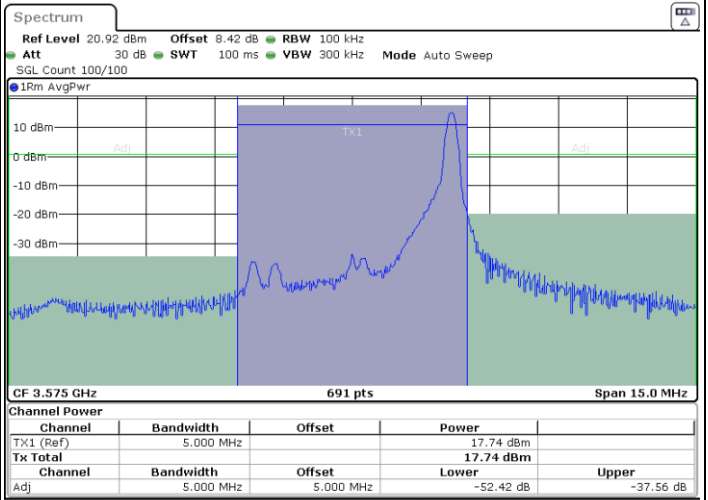
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

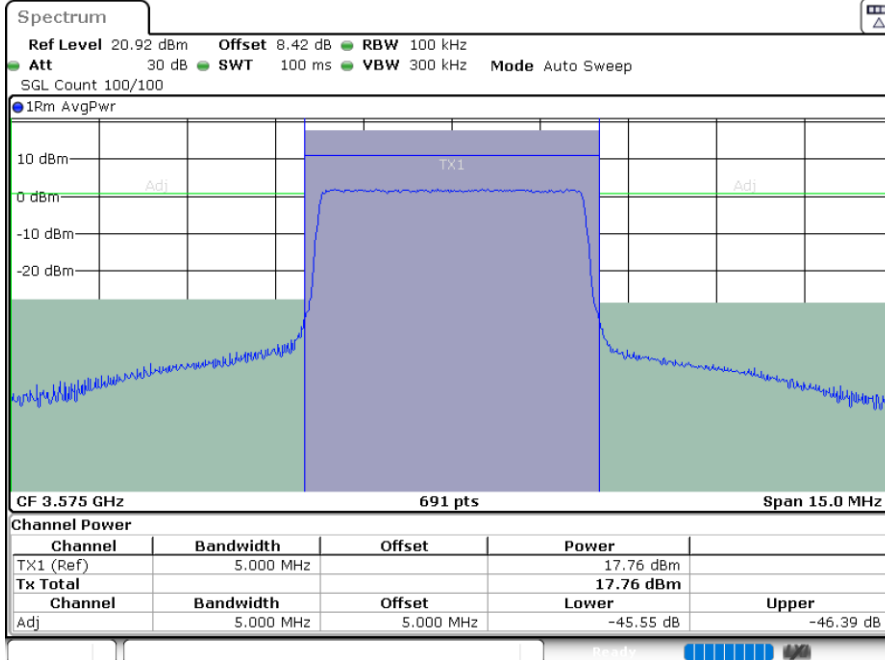


Date: 10.FEB.2023 20:21:14



Date: 10.FEB.2023 20:23:40

Middle Channel / FullRB



Date: 10.FEB.2023 20:26:07

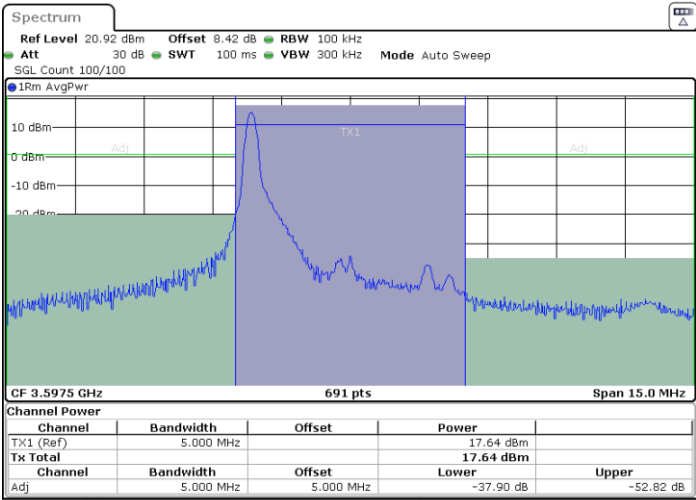


LTE Band 42 / 5MHz

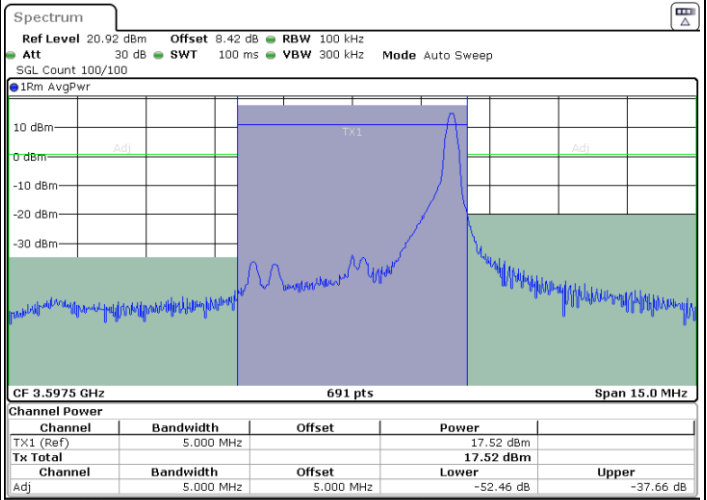
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

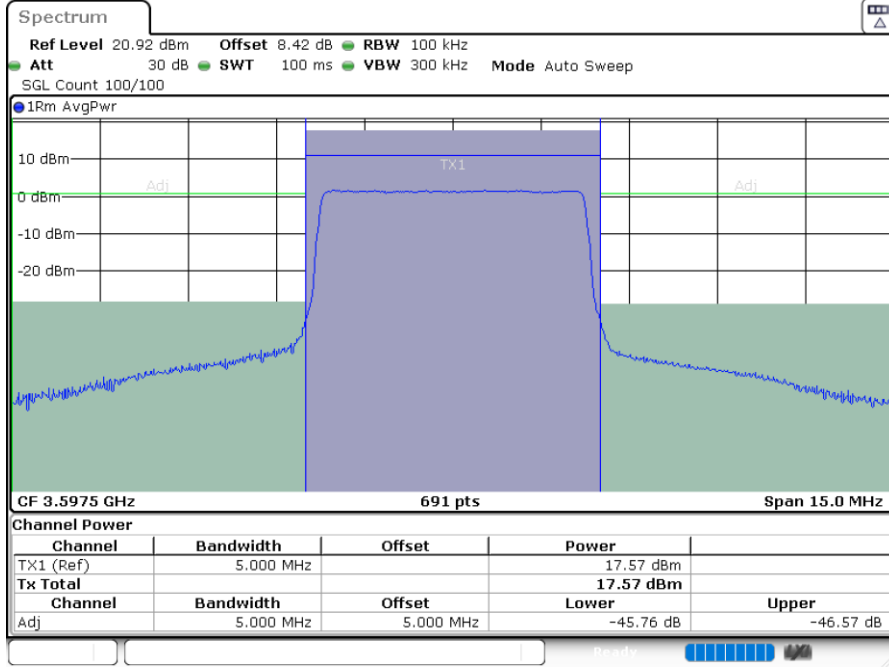


Date: 10.FEB.2023 20:30:52



Date: 10.FEB.2023 20:33:18

Highest Channel / FullRB



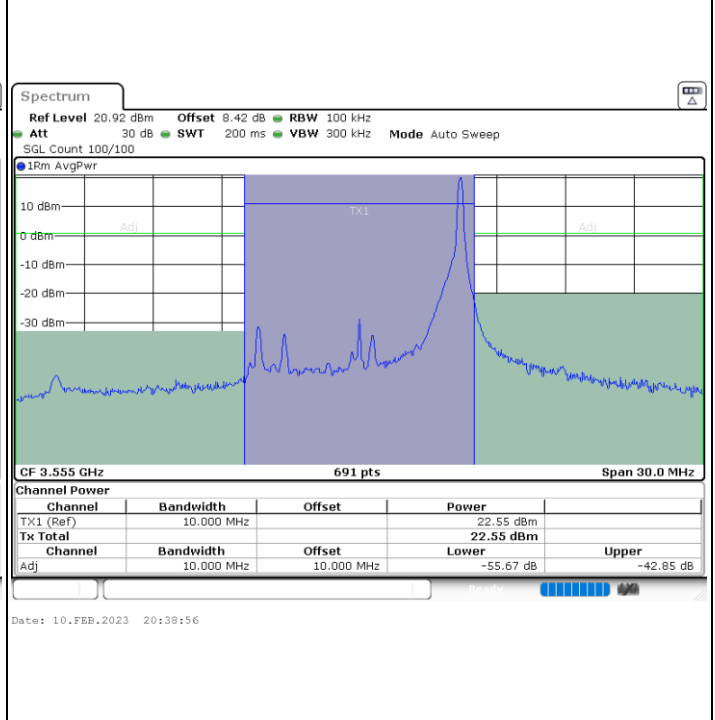
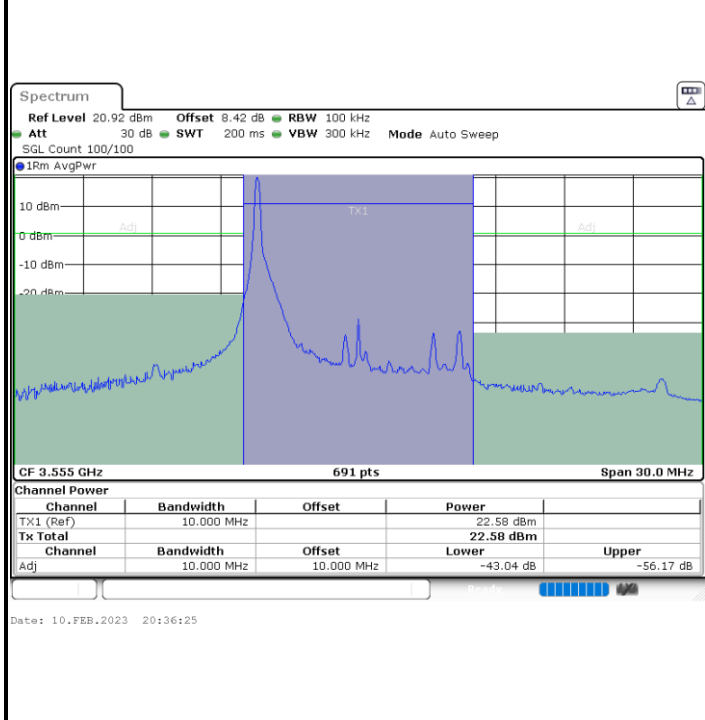
Date: 10.FEB.2023 20:35:44



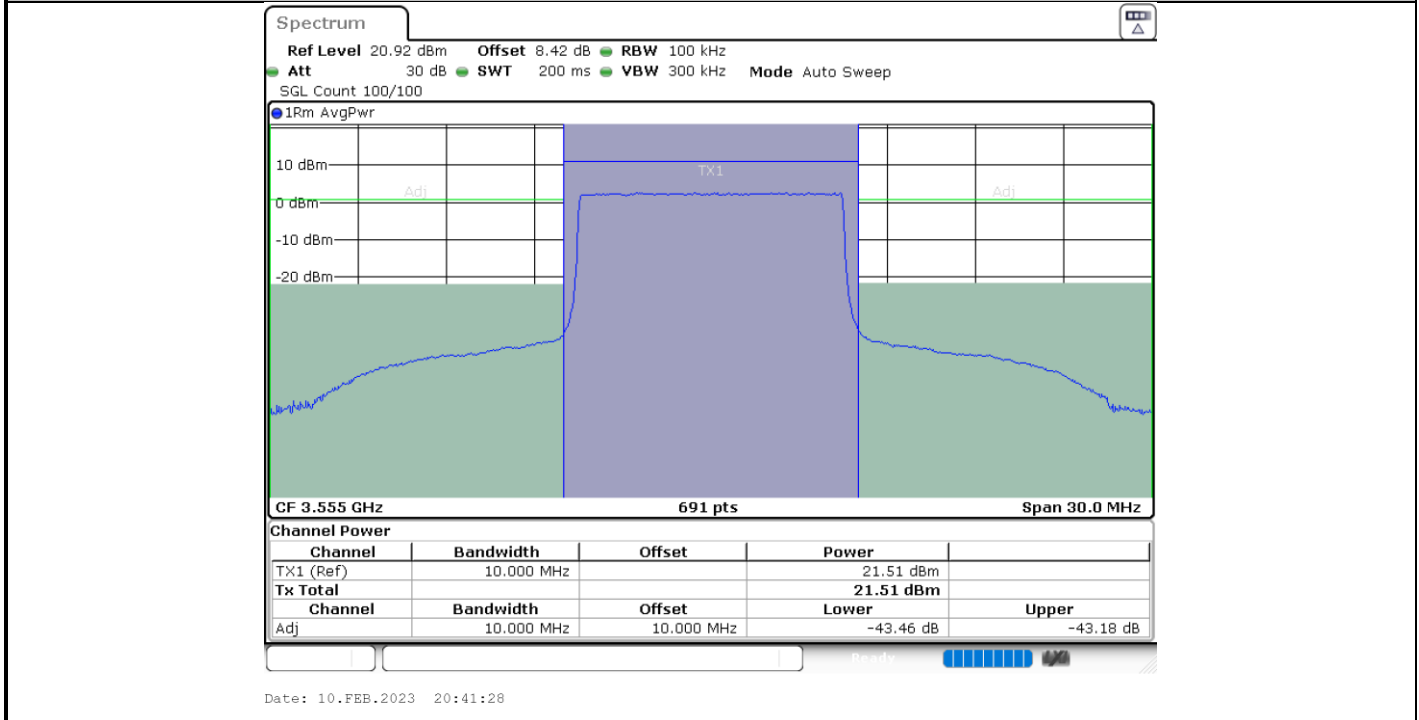
LTE Band 42 / 10MHz

QPSK

Lowest Channel / 1RB0 **Lowest Channel / 1RBmax**



Lowest Channel / FullIRB



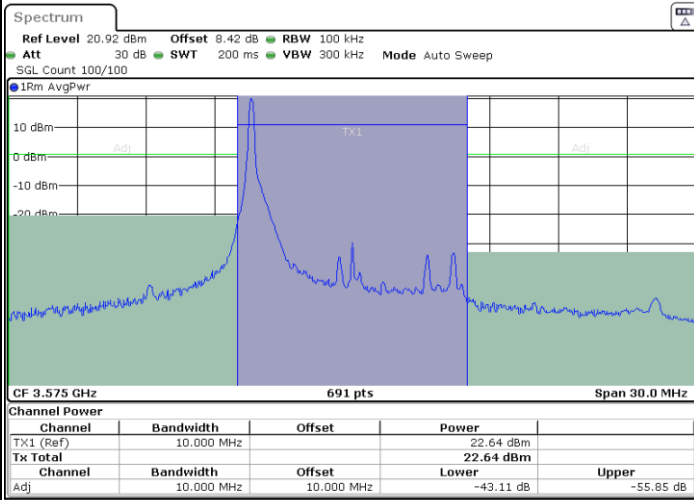


LTE Band 42 / 10MHz

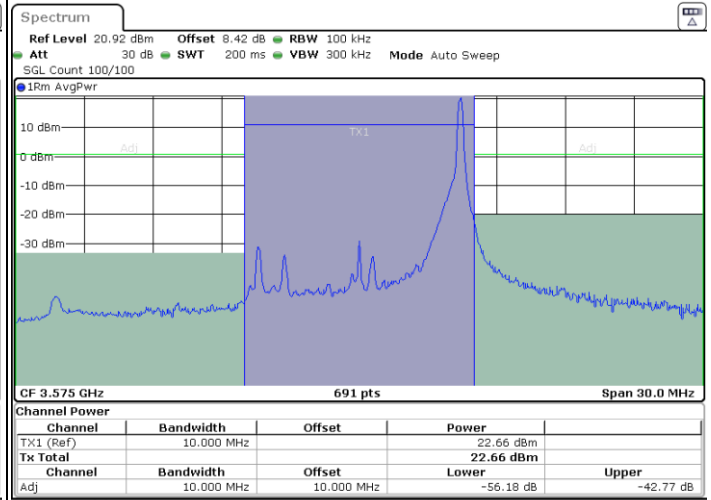
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax

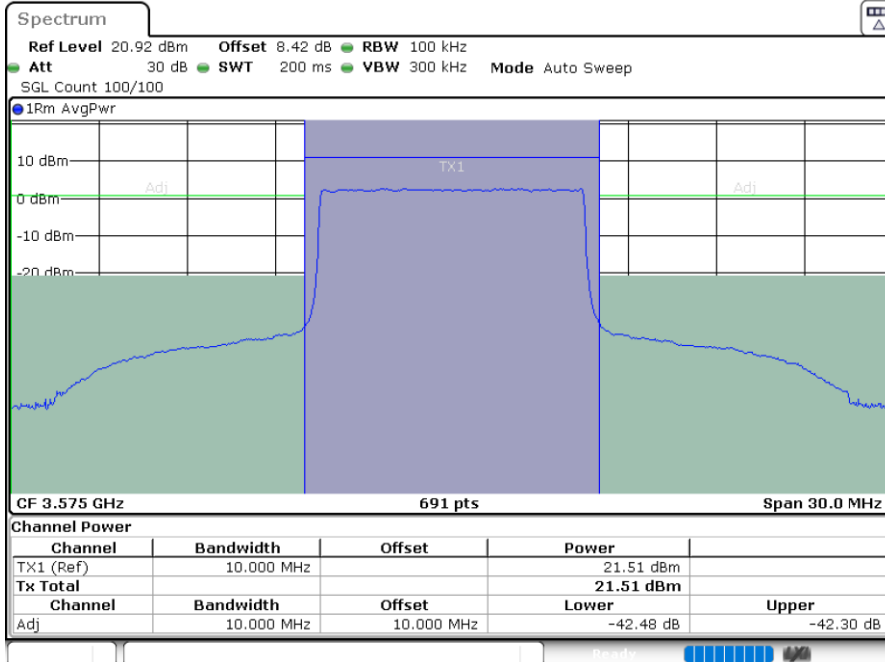


Date: 10.FEB.2023 20:44:02



Date: 10.FEB.2023 20:46:35

Middle Channel / FullRB



Date: 10.FEB.2023 20:49:08

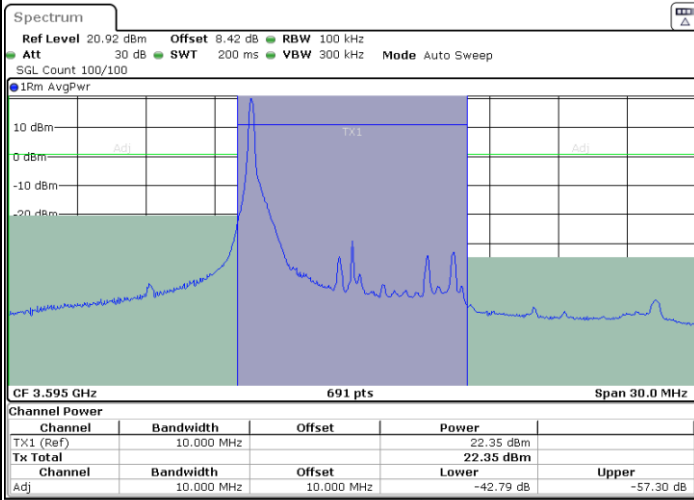


LTE Band 42 / 10MHz

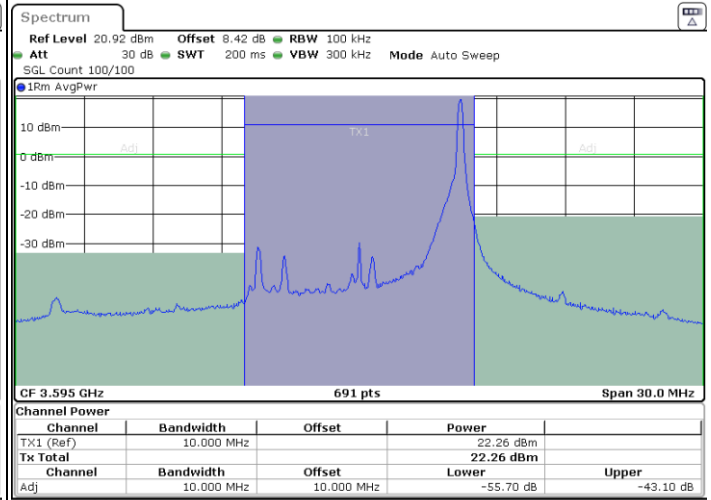
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

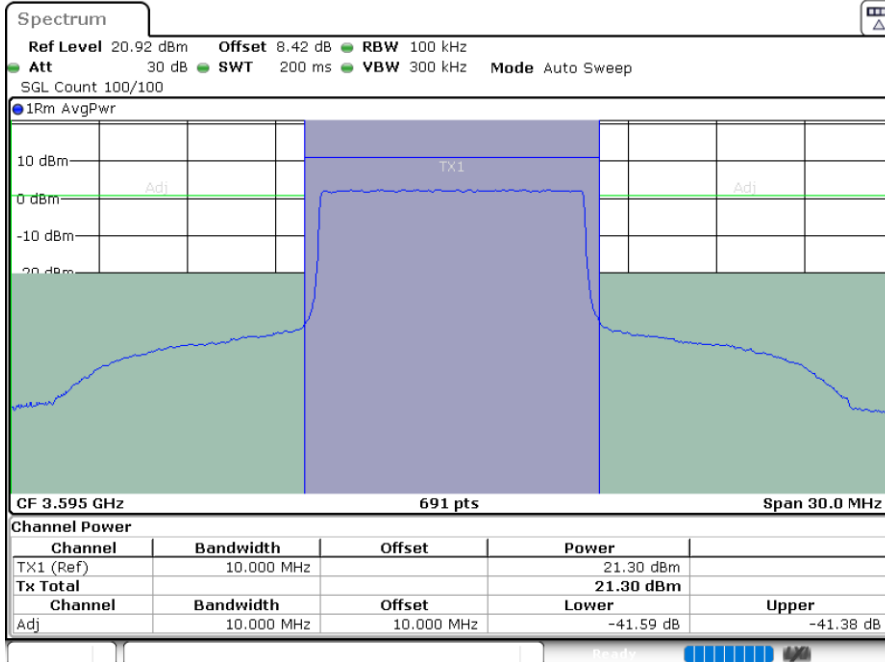


Date: 10.FEB.2023 20:51:41



Date: 10.FEB.2023 20:54:12

Highest Channel / FullRB



Date: 10.FEB.2023 20:56:43

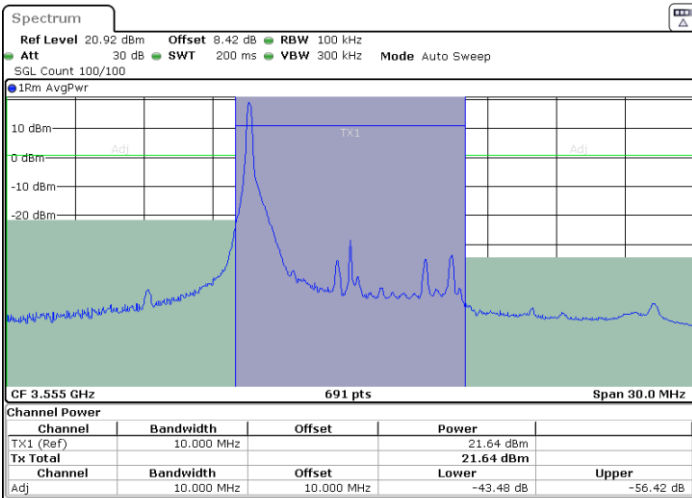


LTE Band 42 / 10MHz

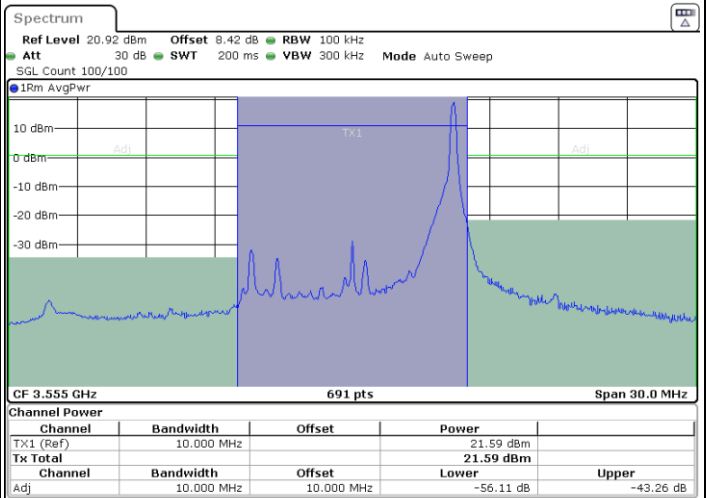
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

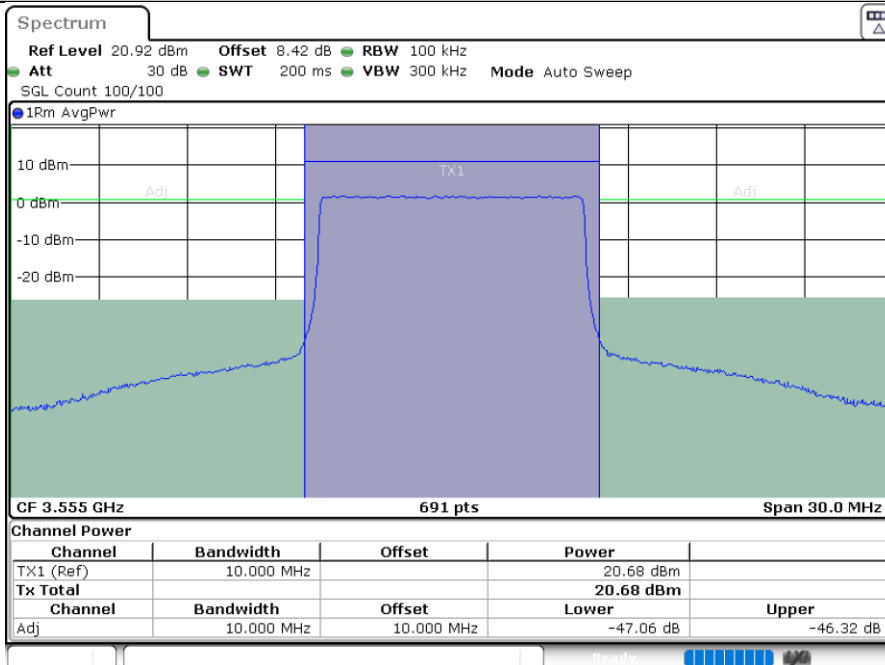


Date: 10.FEB.2023 20:37:03



Date: 10.FEB.2023 20:39:34

Lowest Channel / FullRB



Date: 10.FEB.2023 20:42:05

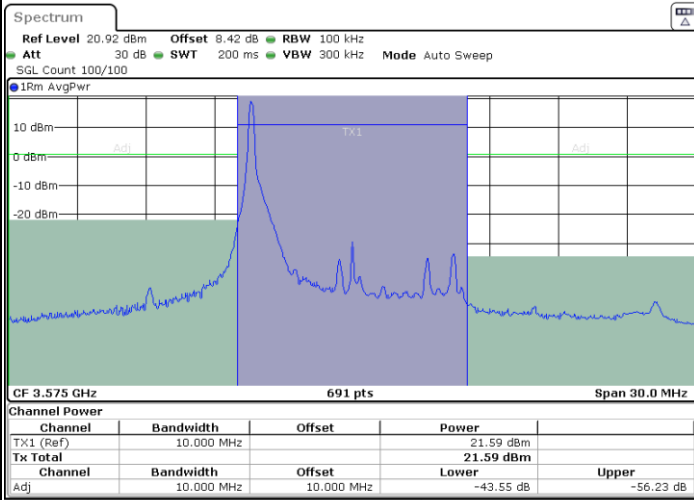


LTE Band 42 / 10MHz

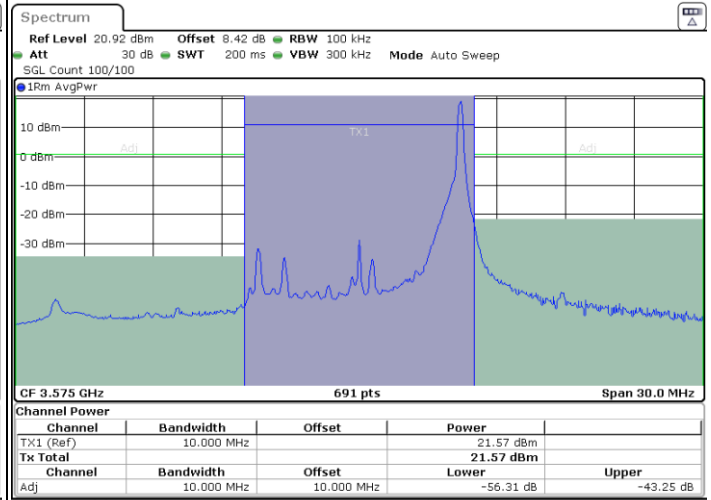
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

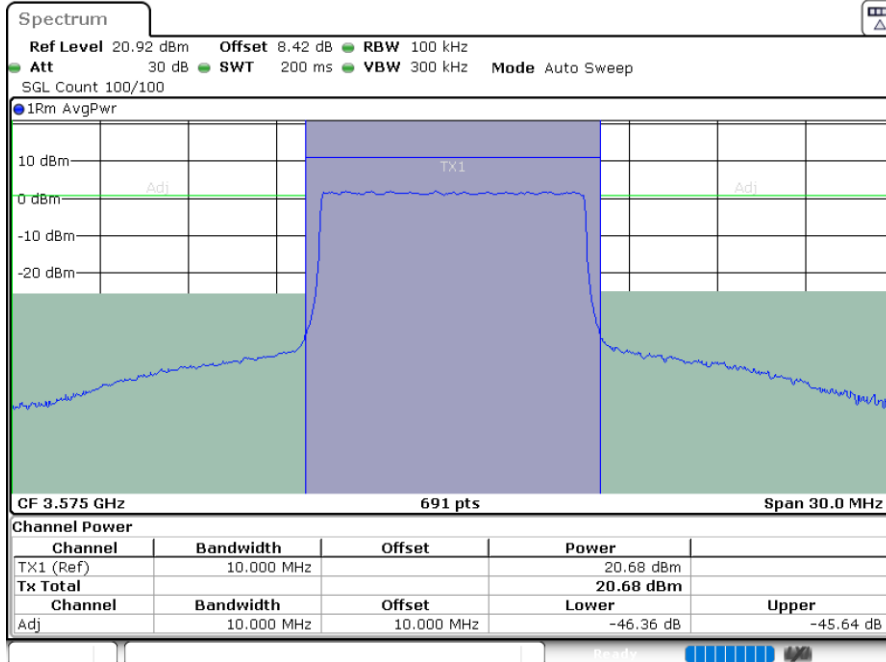


Date: 10.FEB.2023 20:44:41



Date: 10.FEB.2023 20:47:13

Middle Channel / FullRB



Date: 10.FEB.2023 20:49:46

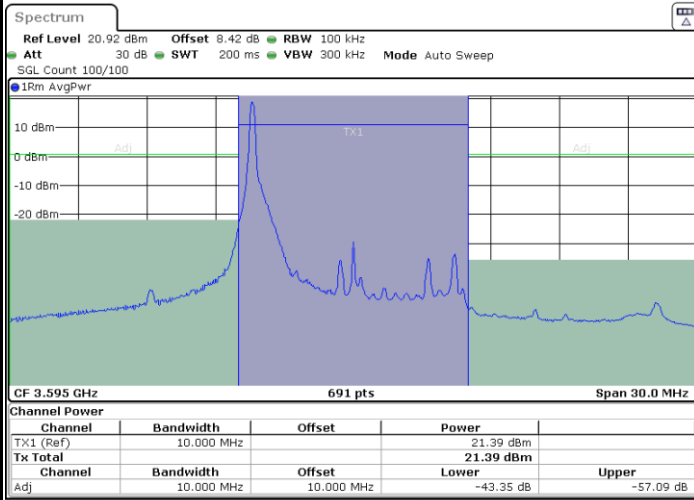


LTE Band 42 / 10MHz

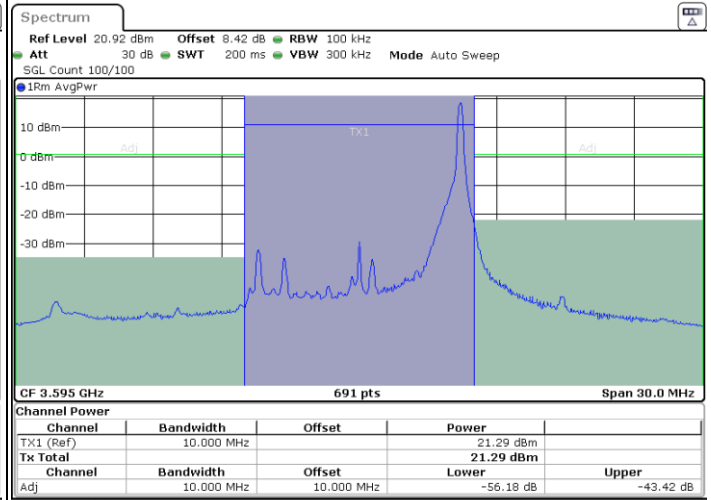
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

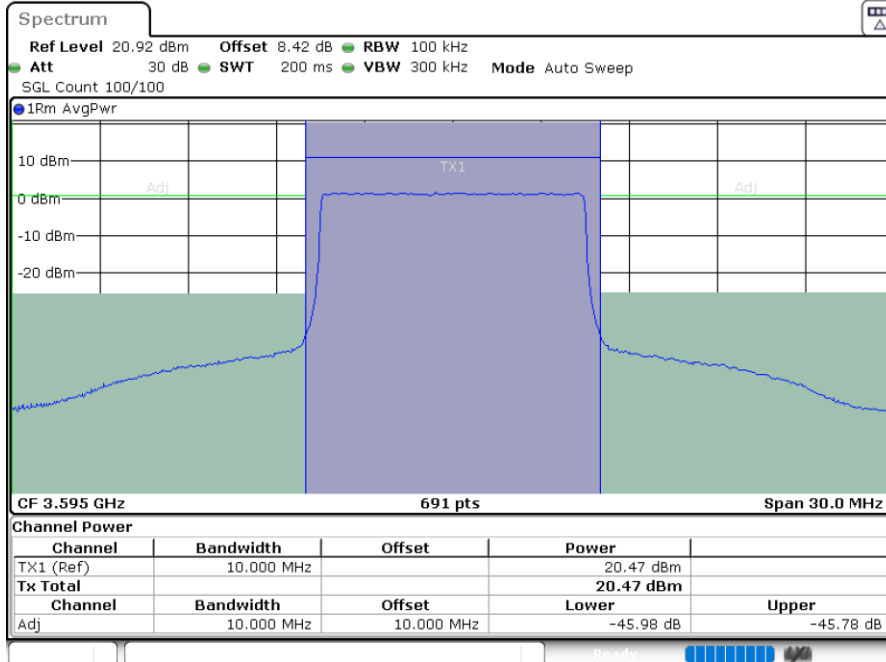


Date: 10.FEB.2023 20:52:19



Date: 10.FEB.2023 20:54:50

Highest Channel / FullRB



Date: 10.FEB.2023 20:57:21

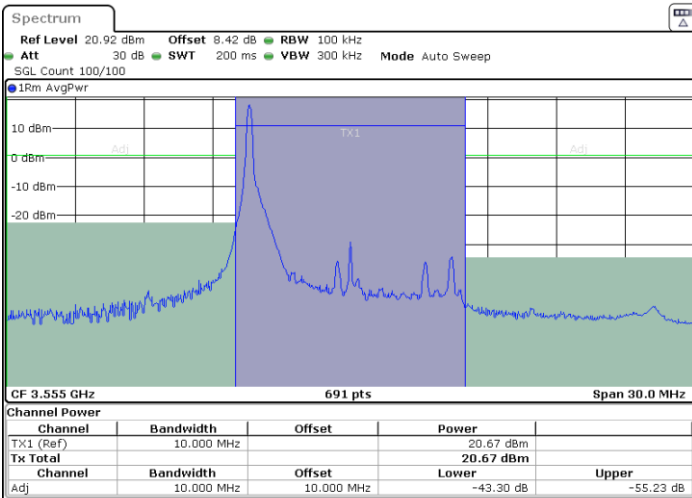


LTE Band 42 / 10MHz

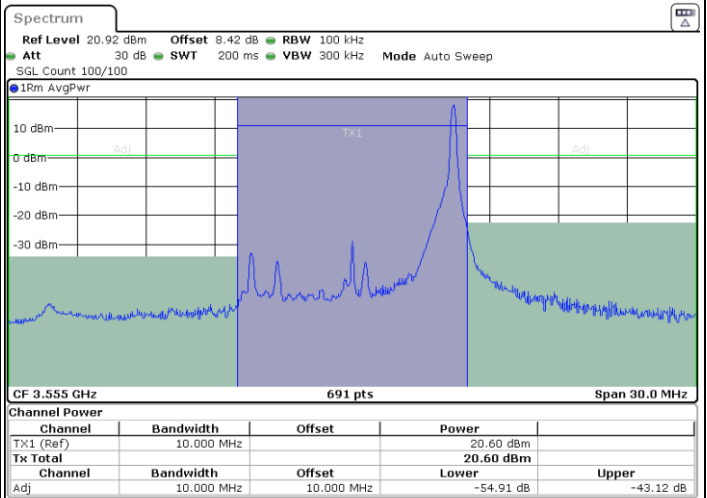
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

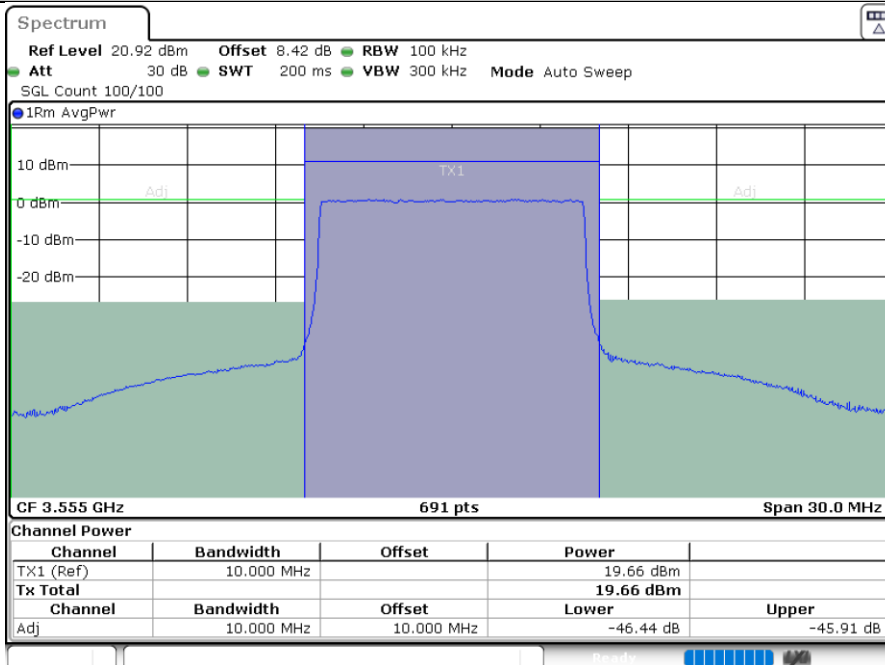


Date: 10.FEB.2023 20:37:40



Date: 10.FEB.2023 20:40:12

Lowest Channel / FullRB



Date: 10.FEB.2023 20:42:43

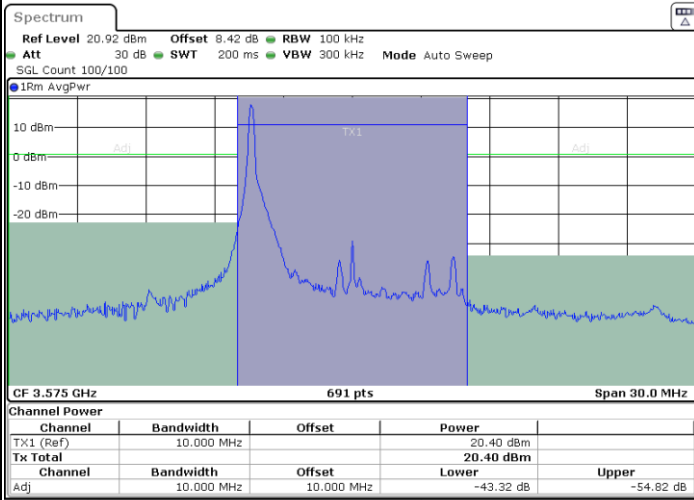


LTE Band 42 / 10MHz

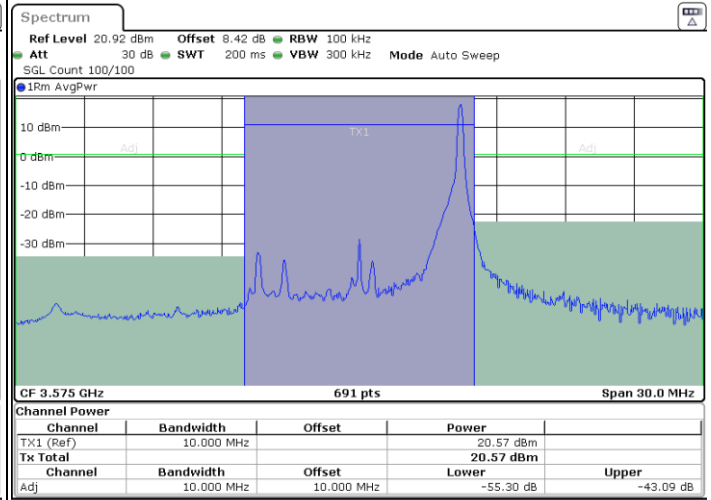
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

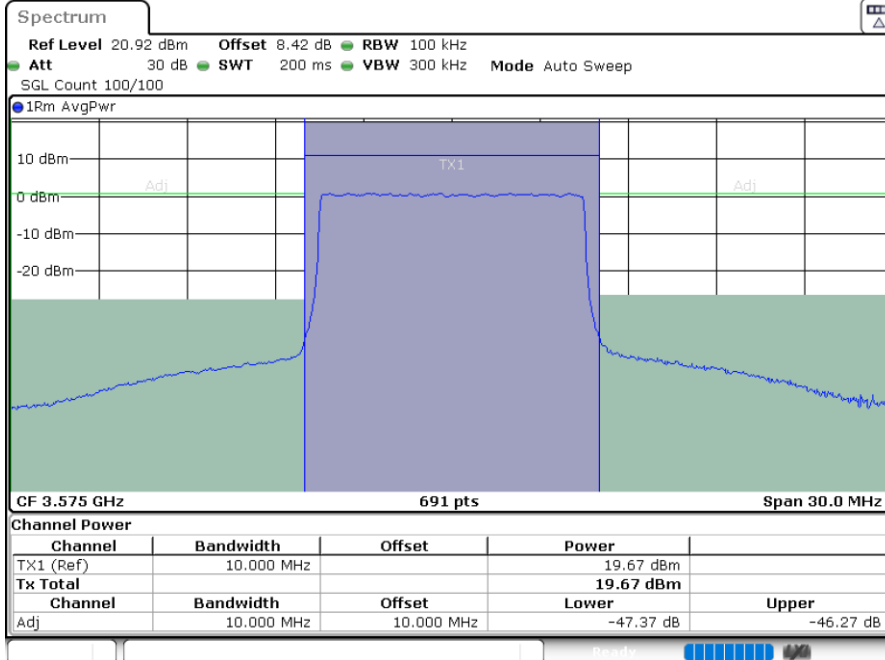


Date: 10.FEB.2023 20:45:19



Date: 10.FEB.2023 20:47:52

Middle Channel / FullRB



Date: 10.FEB.2023 20:50:25

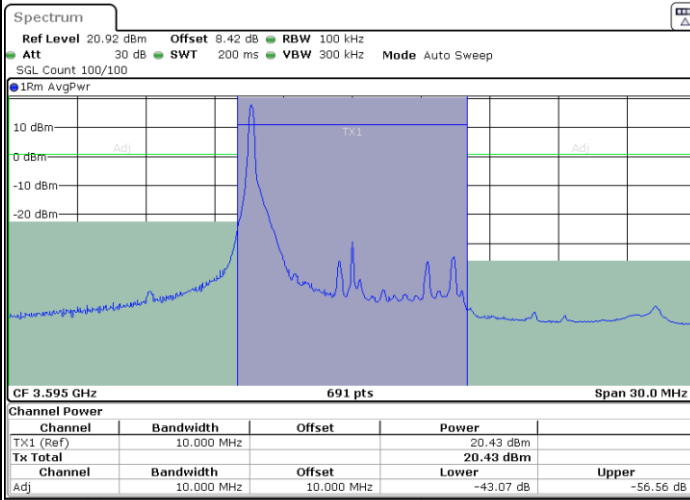


LTE Band 42 / 10MHz

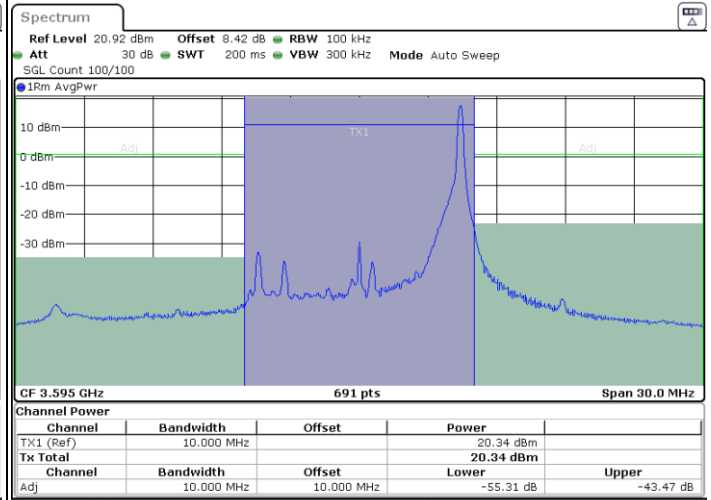
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

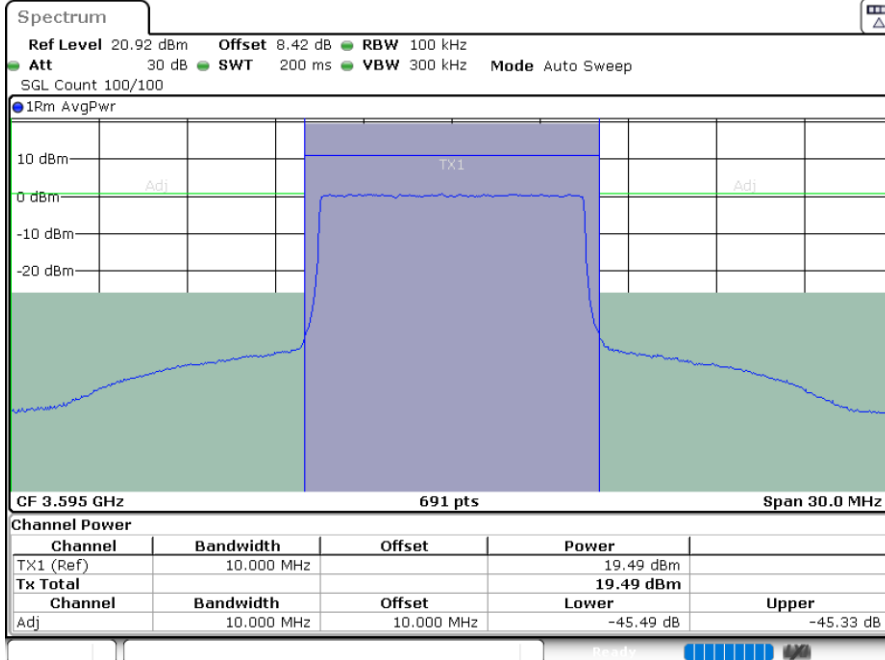


Date: 10.FEB.2023 20:52:57



Date: 10.FEB.2023 20:55:28

Highest Channel / FullRB



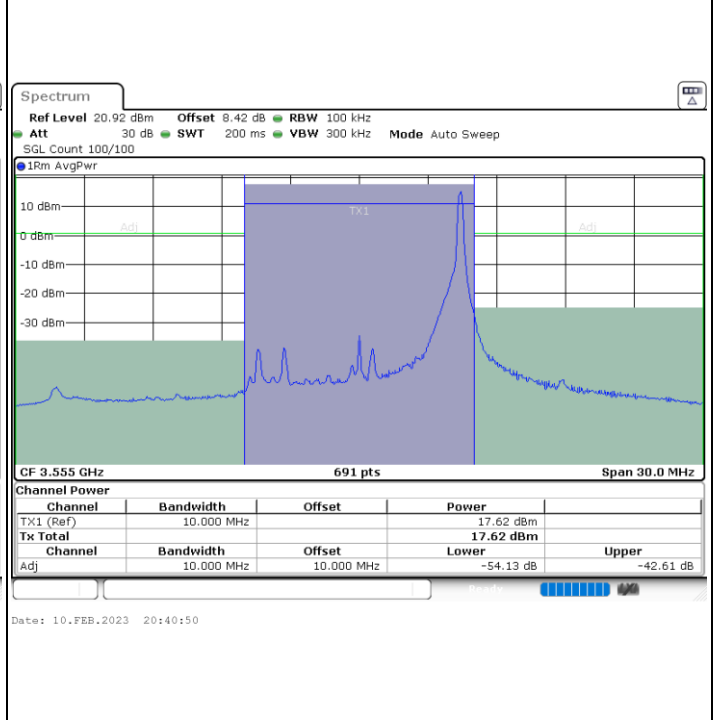
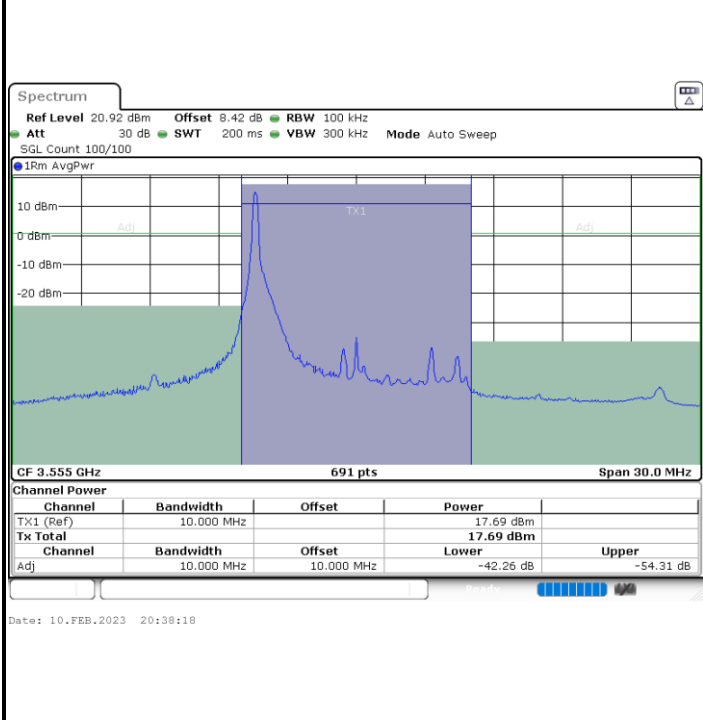
Date: 10.FEB.2023 20:57:59



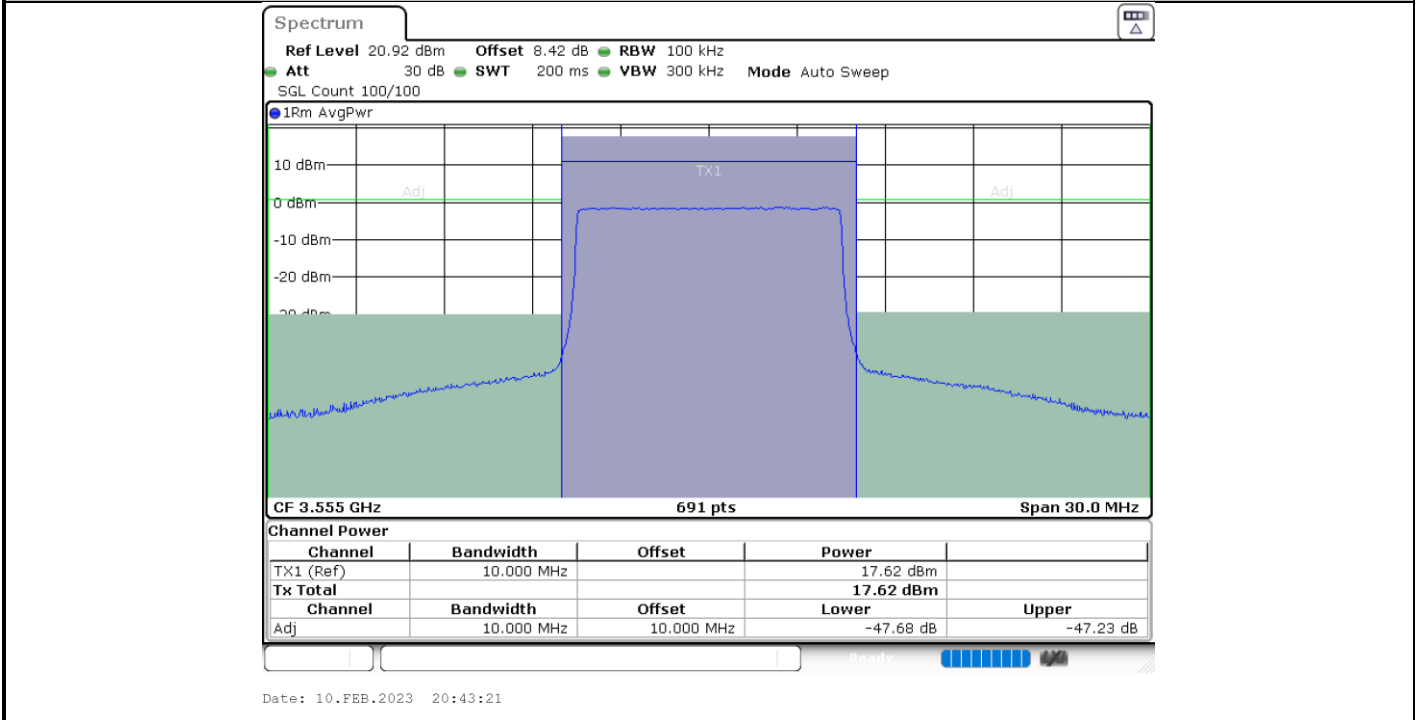
LTE Band 42 / 10MHz

256QAM

Lowest Channel / 1RB0 Lowest Channel / 1RBmax



Lowest Channel / FullIRB



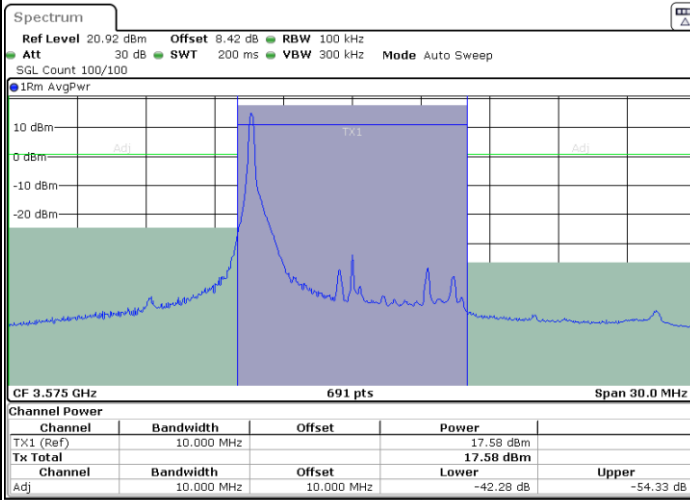


LTE Band 42 / 10MHz

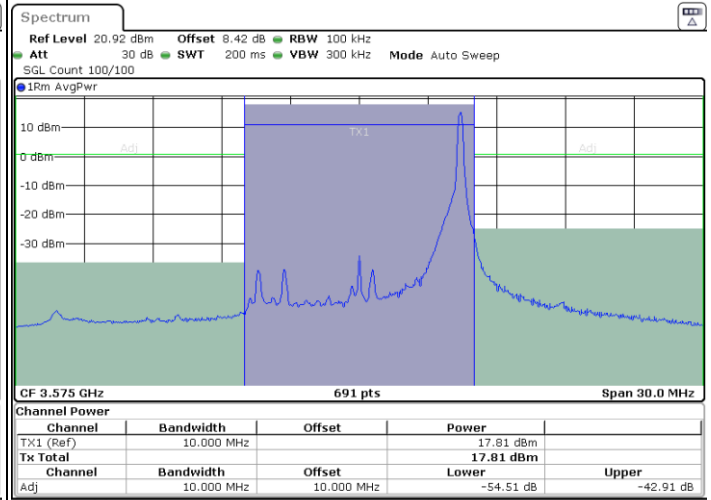
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

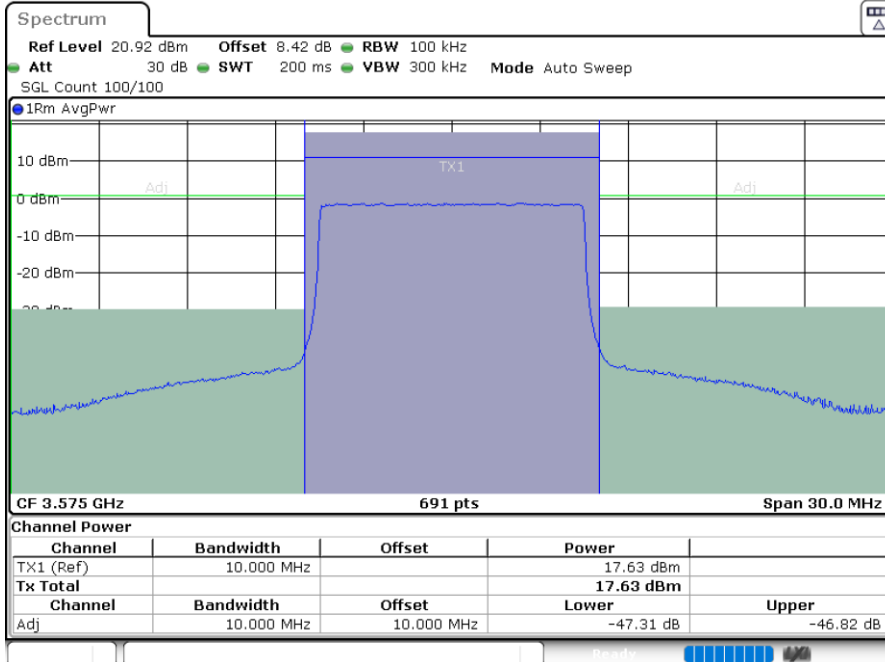


Date: 10.FEB.2023 20:45:57



Date: 10.FEB.2023 20:48:30

Middle Channel / FullRB



Date: 10.FEB.2023 20:51:03

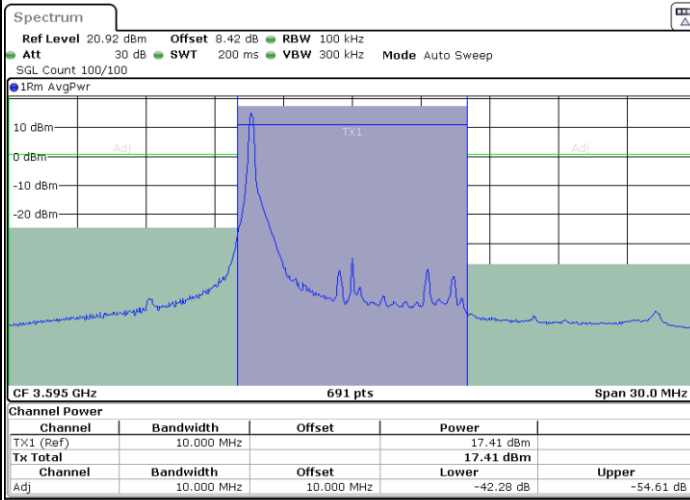


LTE Band 42 / 10MHz

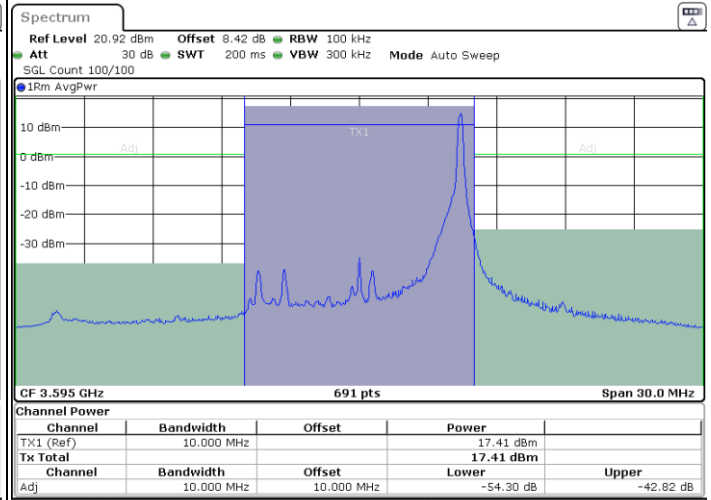
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

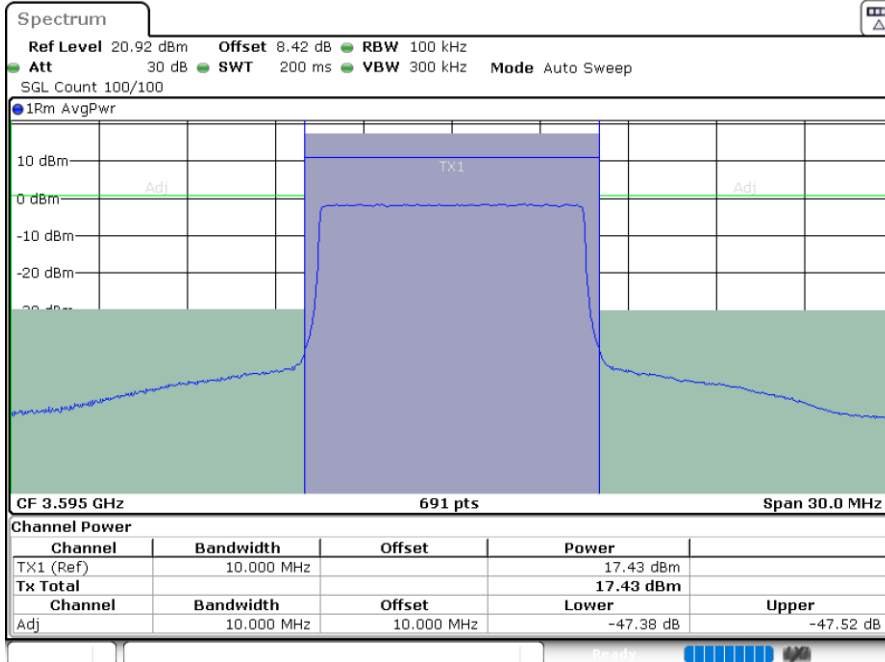


Date: 10.FEB.2023 20:53:35



Date: 10.FEB.2023 20:56:05

Highest Channel / FullRB



Date: 10.FEB.2023 20:58:37

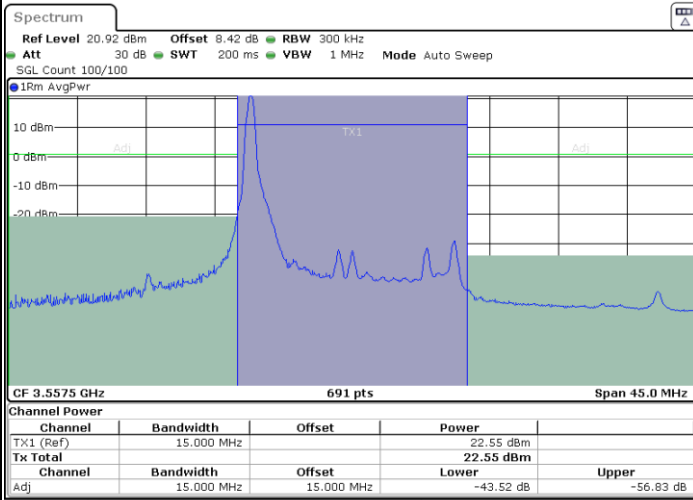


LTE Band 42 / 15MHz

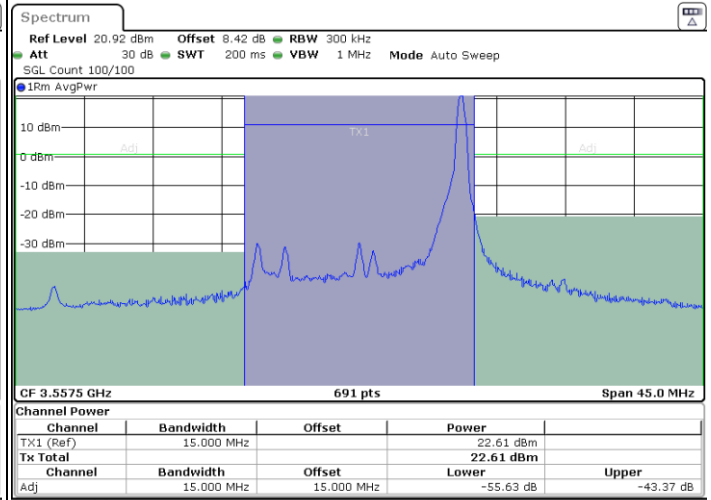
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

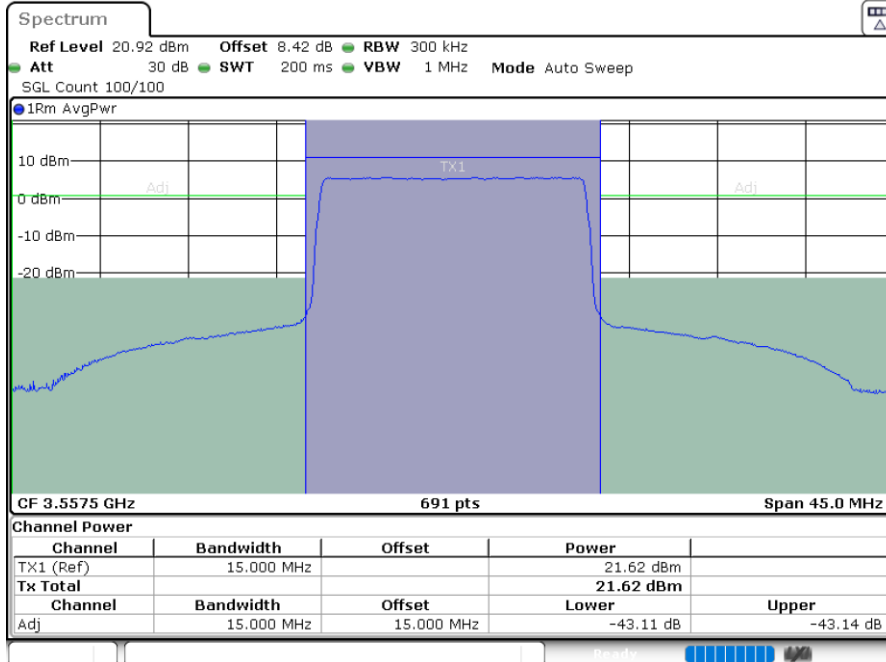


Date: 10.FEB.2023 21:09:11



Date: 10.FEB.2023 21:11:40

Lowest Channel / FullRB



Date: 10.FEB.2023 21:14:10

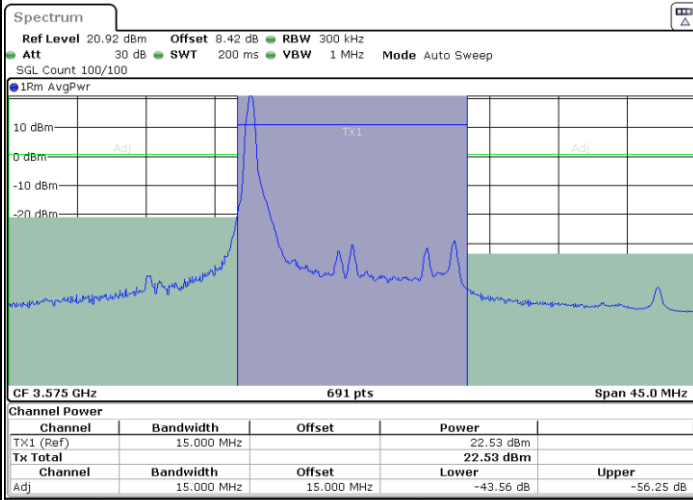


LTE Band 42 / 15MHz

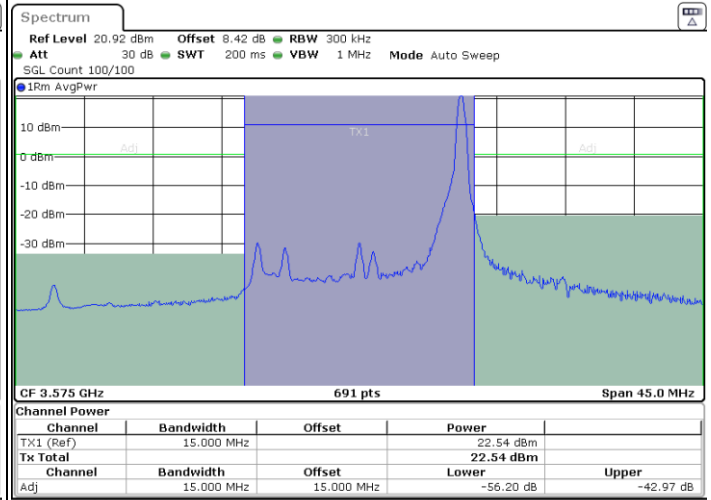
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax

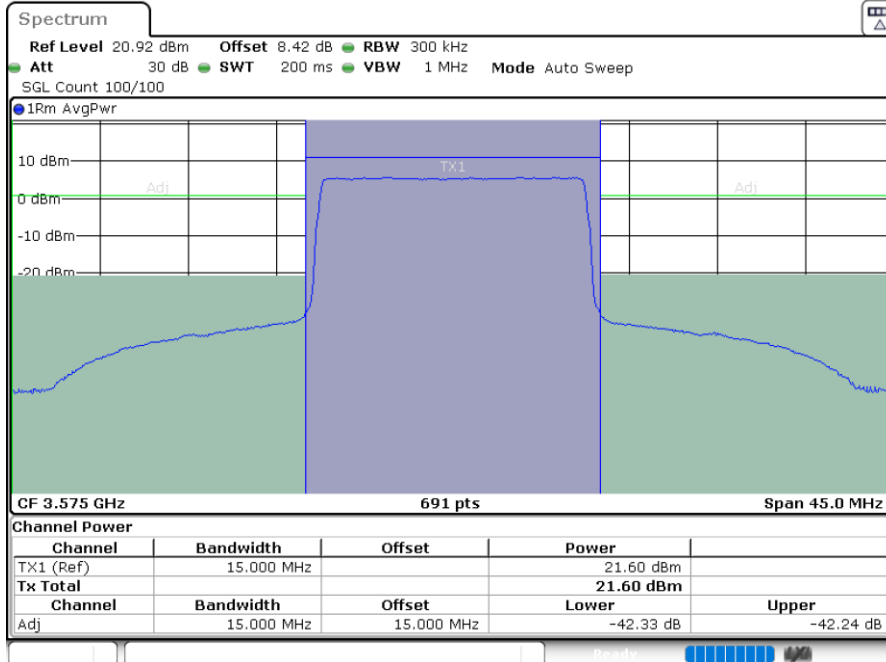


Date: 10.FEB.2023 21:16:39



Date: 10.FEB.2023 21:19:09

Middle Channel / FullRB



Date: 10.FEB.2023 21:21:38

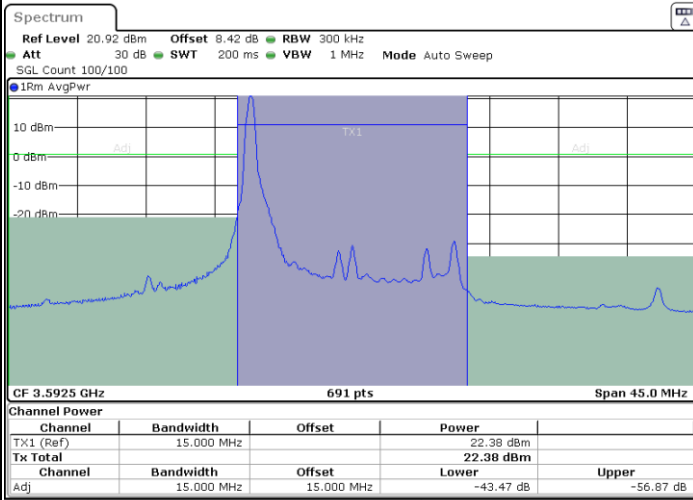


LTE Band 42 / 15MHz

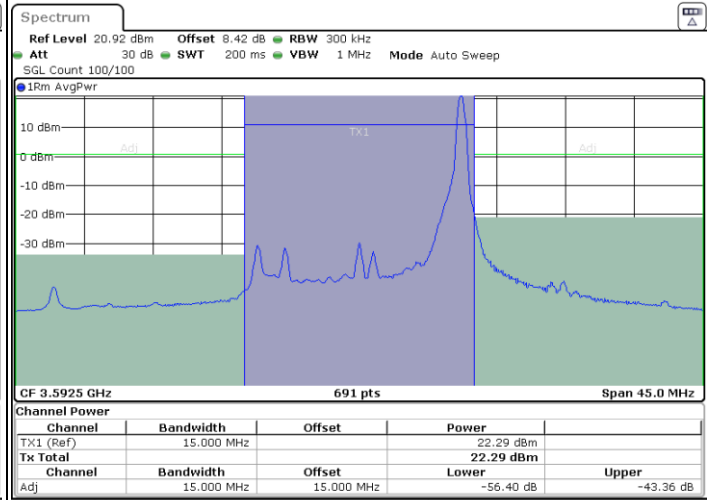
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

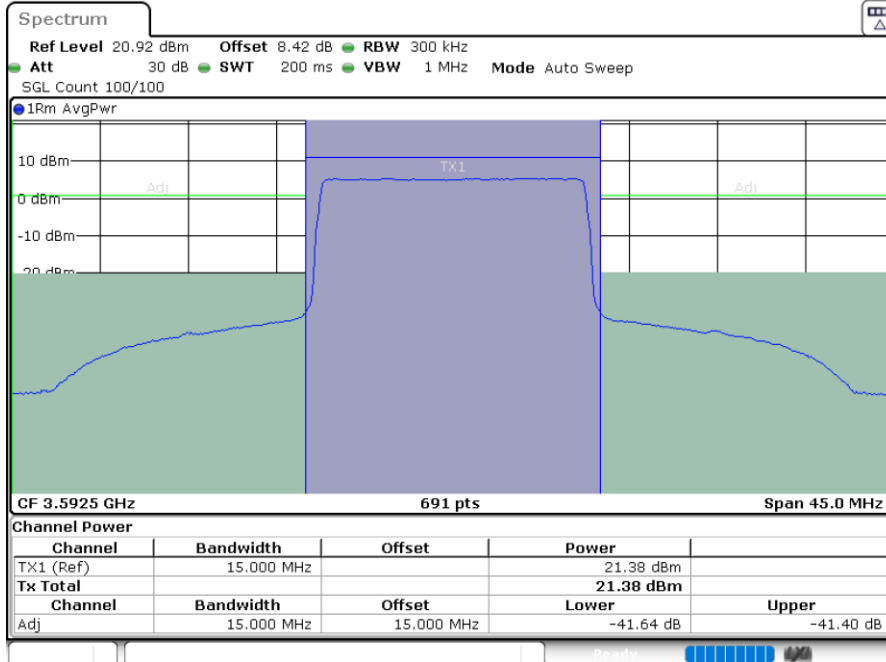


Date: 10.FEB.2023 21:24:07



Date: 10.FEB.2023 21:26:36

Highest Channel / FullRB



Date: 10.FEB.2023 21:29:06

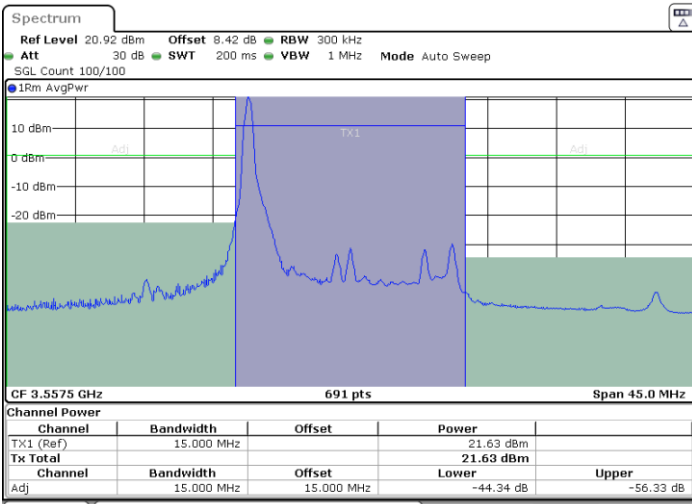


LTE Band 42 / 15MHz

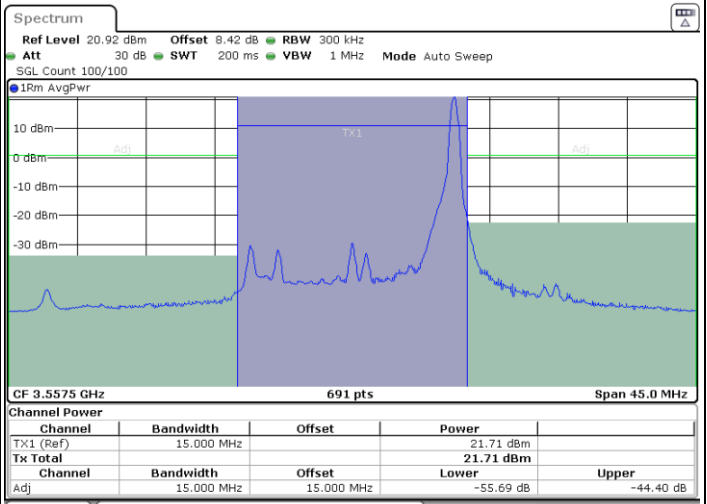
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

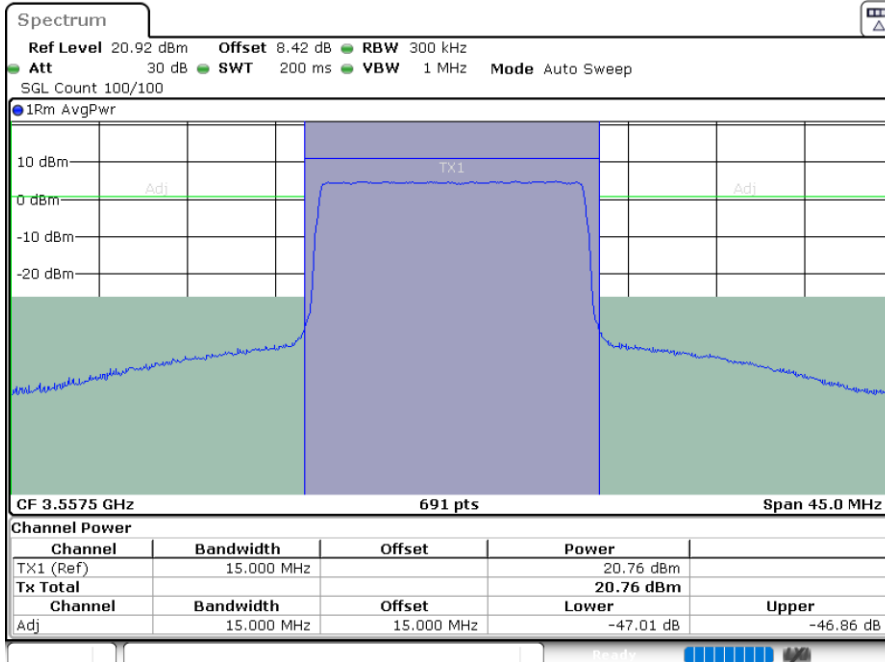


Date: 10.FEB.2023 21:09:48



Date: 10.FEB.2023 21:12:18

Lowest Channel / FullIRB



Date: 10.FEB.2023 21:14:47

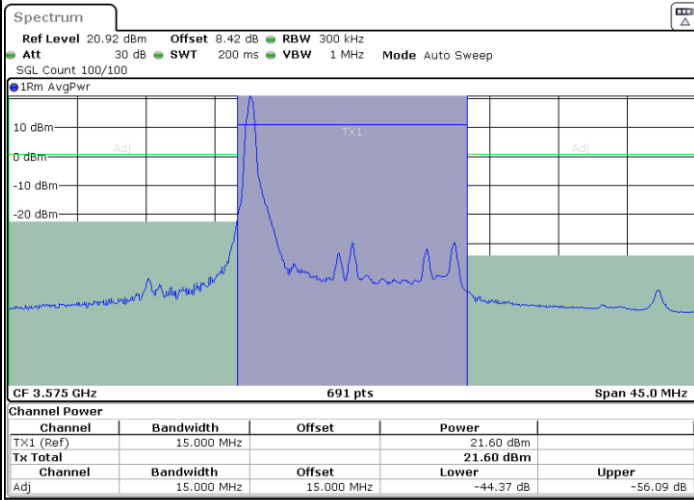


LTE Band 42 / 15MHz

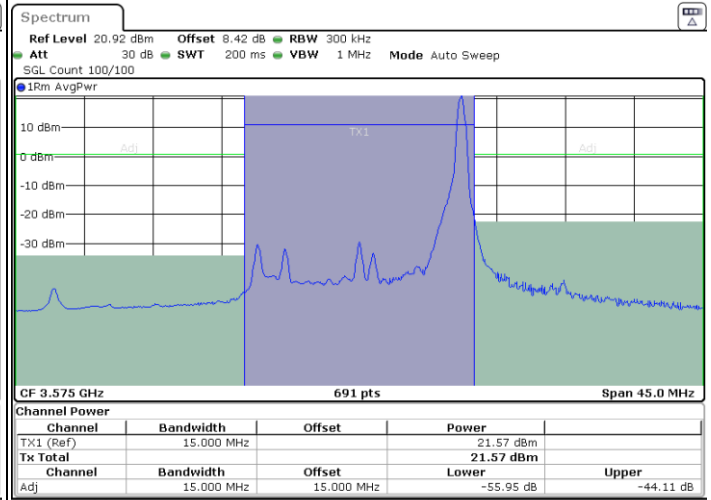
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

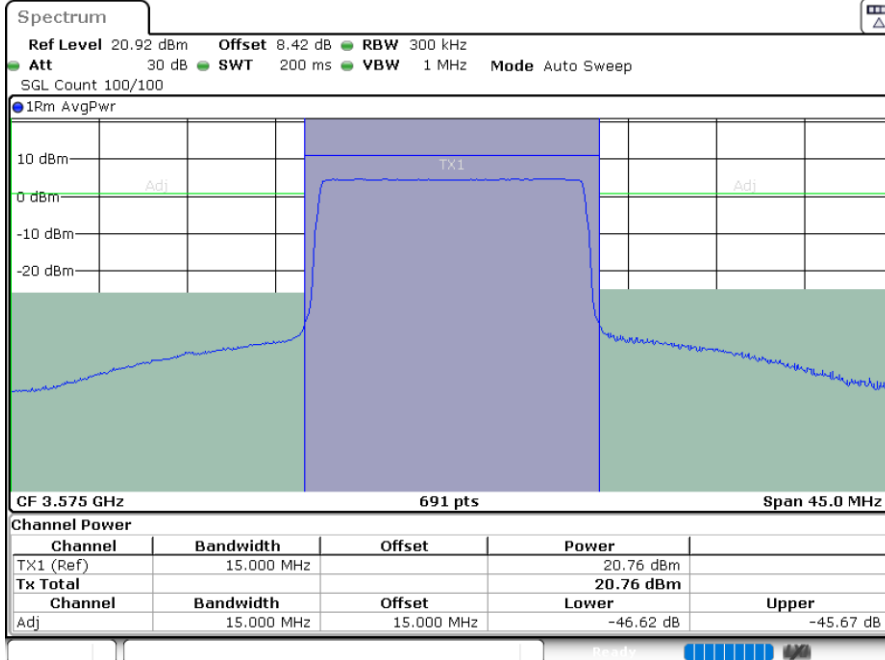


Date: 10.FEB.2023 21:17:17



Date: 10.FEB.2023 21:19:46

Middle Channel / FullRB



Date: 10.FEB.2023 21:22:15

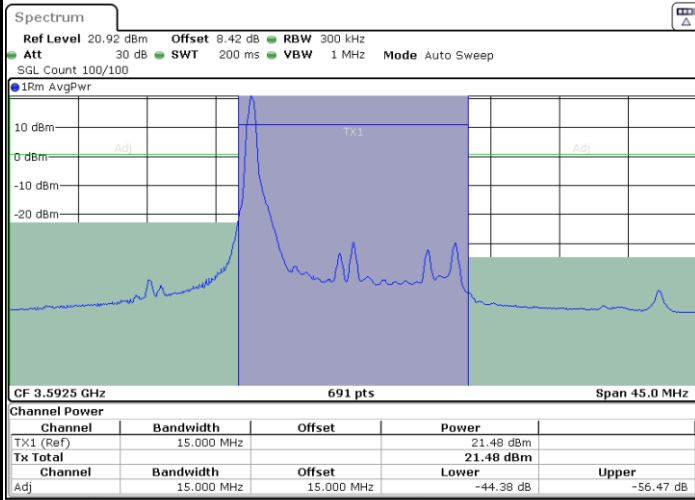


LTE Band 42 / 15MHz

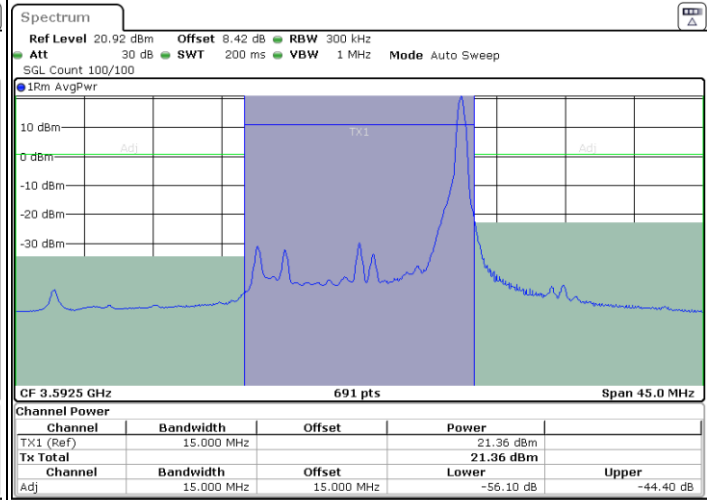
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

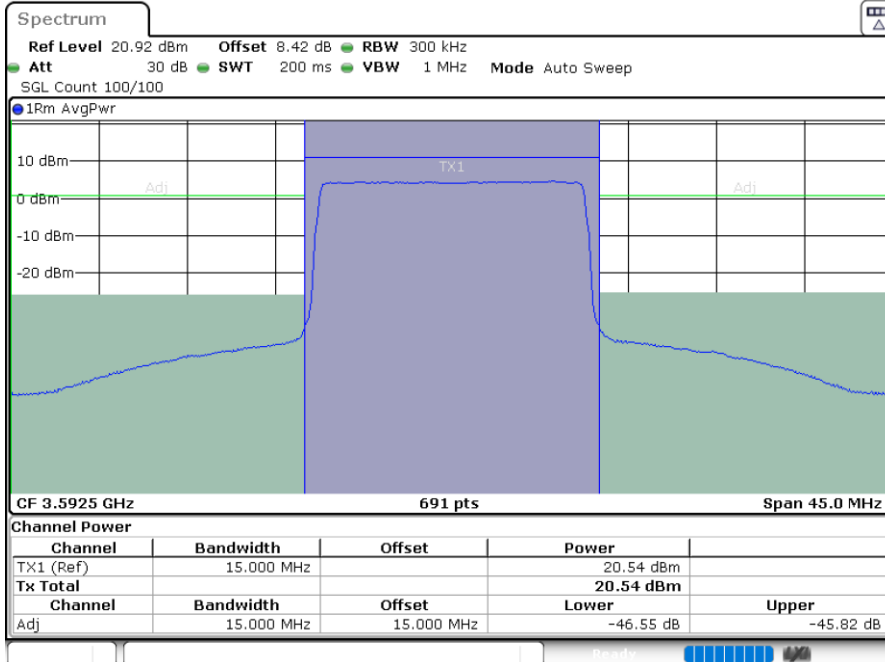


Date: 10.FEB.2023 21:24:45



Date: 10.FEB.2023 21:27:14

Highest Channel / FullRB



Date: 10.FEB.2023 21:29:43