

FCC RF Test Report

APPLICANT : Honeywell International Inc
EQUIPMENT : Mobile computer/Smart phone
BRAND NAME : Honeywell
MODEL NAME : CT47X1N
FCC ID : HD5-CT47X1N
STANDARD : 47 CFR Part 2, 96
CLASSIFICATION : Citizens Band End User Devices (CBE)
EQUIPMENT TYPE : End User Equipment
TEST DATE(S) : Nov. 03, 2022 ~ Dec. 20, 2022

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
FG272913H	01	Initial issue of report	Dec. 28, 2022

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 3.32 dB at 10848.00 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

Honeywell International Inc
9680 Old Bailes Rd, Fort Mill, SC 29707 United States

1.2 Manufacturer

Honeywell International Inc
9680 Old Bailes Rd, Fort Mill, SC 29707 United States

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile computer/Smart phone
Brand Name	Honeywell
Model Name	CT47X1N
FCC ID	HD5-CT47X1N
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
Antenna Type	PIFA Antenna
Antenna Gain	<Ant. 8> LTE Band 42: -5.0 dBi LTE Band 43: -5.0 dBi LTE Band 48: -5.0 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM
IMEI Code	Conducted : 990019560025530/990019560025548 Radiation : 990019560031876/990019560031884
HW Version	V1.0
SW Version	OS.21.001-HON.21.001
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. LTE Band 42 supports HPUE mode.

1.4 Maximum EIRP Power and Emission Designator

LTE Band 42		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	3552.5~3597.5	0.0938	4M52G7D	0.0791	4M47W7D
10	3555.0~3595.0	0.0948	8M99G7D	0.0787	9M01W7D
15	3557.5~3592.5	0.0944	13M5G7D	0.0809	13M4W7D
20	3560.0~3590.0	0.0951	17M8G7D	0.0787	17M9W7D
LTE Band 43		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	3602.5~3697.5	0.0774	4M51G7D	0.0671	4M50W7D
10	3605.0~3695.0	0.0778	9M05G7D	0.0664	9M09W7D
15	3607.5~3692.5	0.0764	13M4G7D	0.0622	13M5W7D
20	3610.0~3690.0	0.0780	17M9G7D	0.0624	17M9W7D
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	0.0728	4M50G7D	0.0594	4M51W7D
10	3555.0~3695.0	0.0733	9M03G7D	0.0569	9M03W7D
15	3557.5~3692.5	0.0736	13M5G7D	0.0570	13M4W7D
20	3560.0~3690.0	0.0738	17M9G7D	0.0597	17M9W7D
LTE Band 42 CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5MHz+20MHz		0.0358	23M3G7D	0.0393	23M2W7D
10MHz+20MHz		0.0916	27M8G7D	0.0841	28M1W7D
15MHz+20MHz		0.0929	32M8G7D	0.0818	32M9W7D
20MHz+5MHz		0.0355	23M3G7D	0.0388	23M4W7D
20MHz+10MHz		0.0883	28M2G7D	0.0832	28M2W7D
20MHz+15MHz		0.0891	33M0G7D	0.0718	32M7W7D
20MHz+20MHz		0.0885	37M8G7D	0.0740	37M7W7D

LTE Band 48 CA	QPSK		16QAM/64QAM/256QAM	
BW (MHz) Frequency (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5MHz+20MHz	0.0528	23M2G7D	0.0528	23M5W7D
10MHz+20MHz	0.0601	28M2G7D	0.0610	28M1W7D
15MHz+20MHz	0.0661	32M8G7D	0.0652	33M0W7D
20MHz+5MHz	0.0516	23M2G7D	0.0515	23M3W7D
20MHz+10MHz	0.0575	27M9G7D	0.0587	28M1W7D
20MHz+15MHz	0.0619	32M9G7D	0.0632	33M0W7D
20MHz+20MHz	0.0646	37M6G7D	0.0637	37M6W7D

Note:

1. Based on engineering evaluation, only the worst modulation test results are shown in the report.
2. Manufacturer declares that LTE Band 48C channels shall be set NS_10 to reduce the conducted power.
3. Manufacturer declares that LTE Band 42C channels shall be set NS_08 to reduce the conducted power

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 FAX : +86-512-57900958		
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.

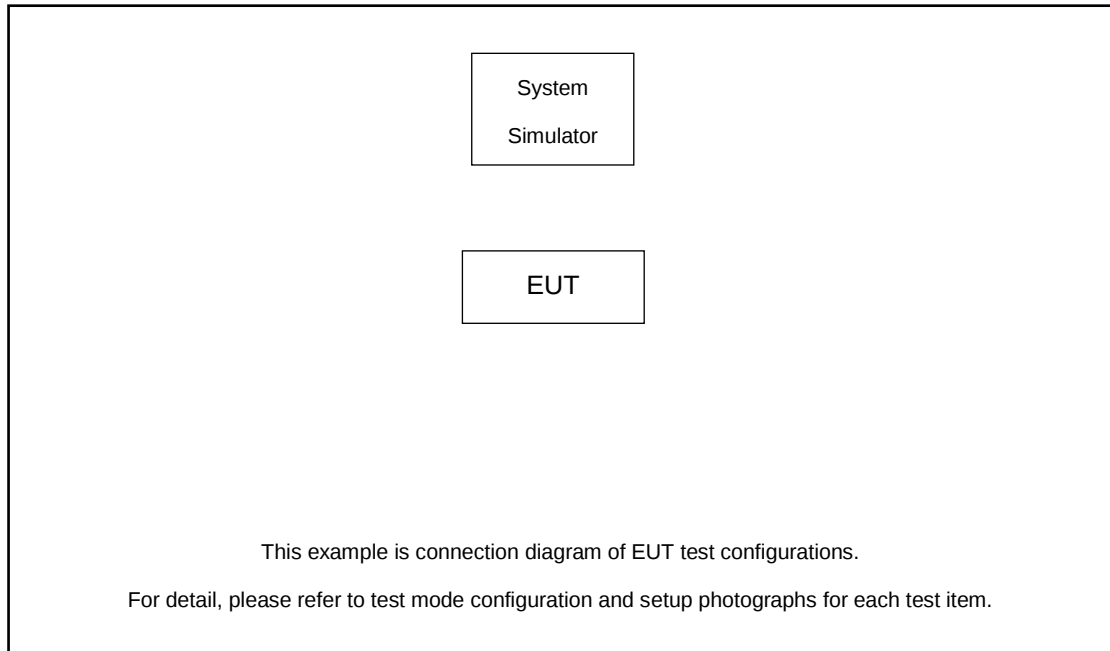
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	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
	43	-	-	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
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	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																



Test Items	Band	Bandwidth (MHz)										Modulation				RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	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
	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
	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	
	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
	48C_CA	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
	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
	48C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v		v	v	v	v
Radiated Spurious Emission	42C_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.	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 between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

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

Example :

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

= 8.72 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

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

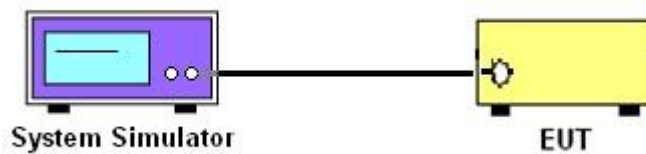
3 Conducted Test Items

3.1 Measuring Instruments

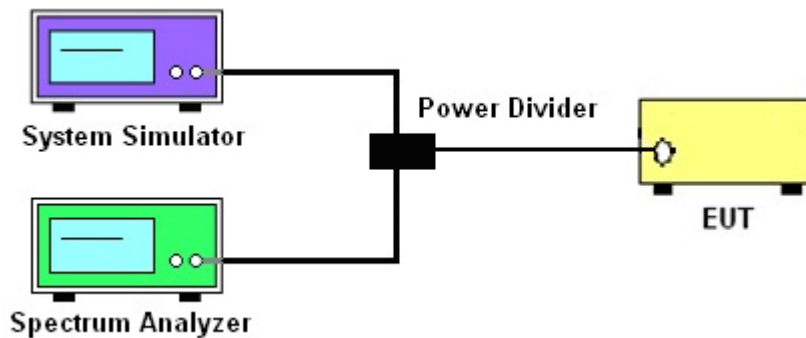
See list of measuring instruments of this test report.

3.1.1 Test Setup

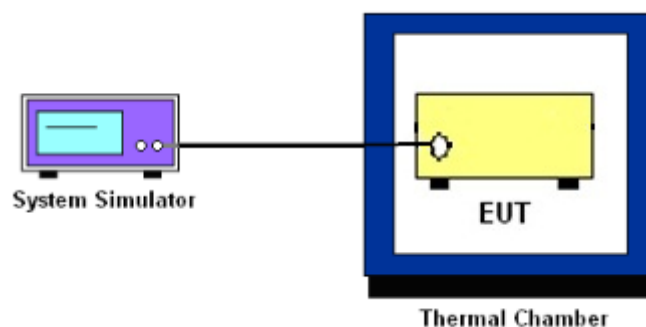
3.1.2 Conducted Output Power / ACLR



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 limits for CBRS equipment as below table:

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

Remark: The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz)

3.3.2 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)
$$\text{EIRP} = P_T + G_T - L_C, \text{ ERP} = \text{EIRP} - 2.15, \text{ where}$$
$$P_T = \text{transmitter output power in dBm}$$
$$G_T = \text{gain of the transmitting antenna in dBi}$$
$$L_C = \text{signal attenuation in the connecting cable between the transmitter and antenna in dB}$$

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.

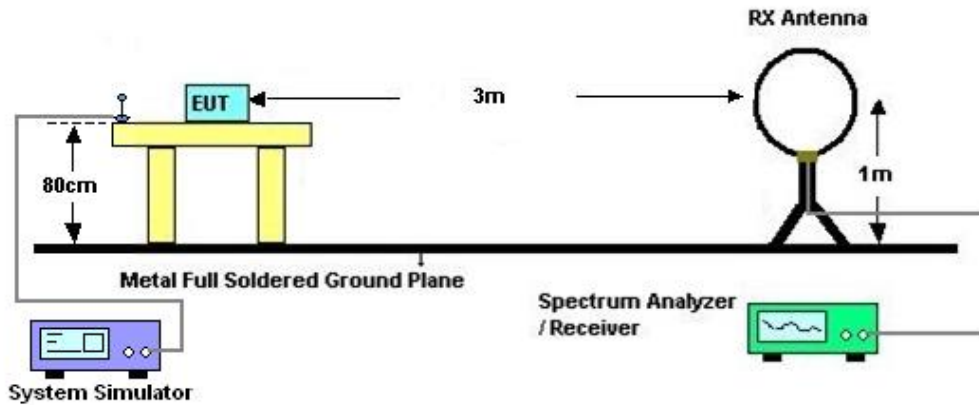
4 Radiated Test Items

4.1 Measuring Instruments

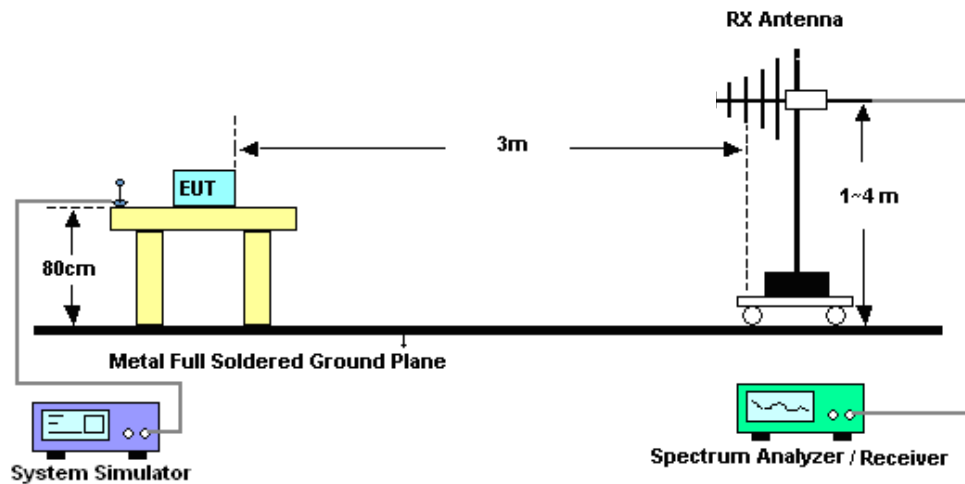
See list of measuring instruments of this test report.

4.2 Test Setup

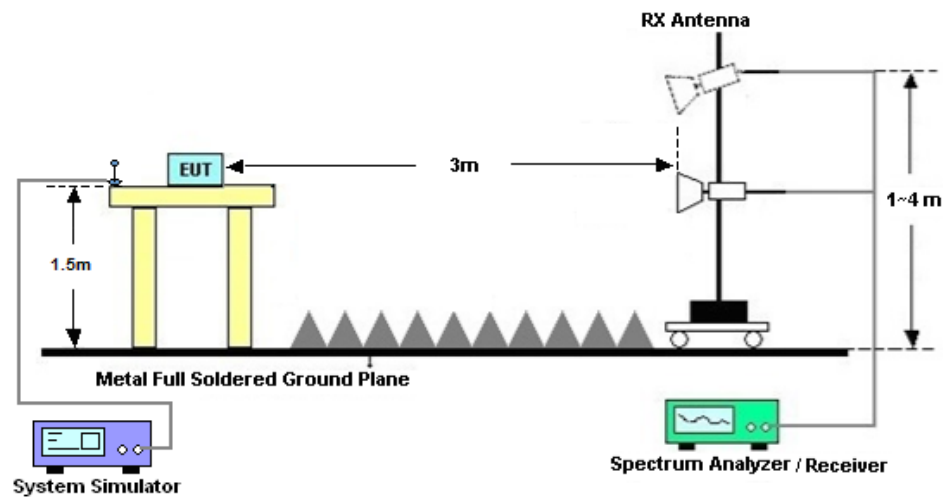
4.2.1 For radiated test below 30MHz



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	Nov. 03, 2022~Dec. 20, 2022	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2022	Nov. 03, 2022~Dec. 20, 2022	Aug. 25, 2023	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Nov. 03, 2022~Dec. 20, 2022	Jul. 14, 2023	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz~44G, MAX 30dB	Oct. 12, 2022	Nov. 14, 2022	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Nov. 14, 2022	Oct. 15, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	May 24, 2022	Nov. 14, 2022	May 23, 2023	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Jan. 05, 2022	Nov. 14, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Nov. 14, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz~1GHz	Jan. 05, 2022	Nov. 14, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2022	Nov. 14, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz~18Ghz	Oct. 12, 2022	Nov. 14, 2022	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz~18Ghz	Oct. 12, 2022	Nov. 14, 2022	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 14, 2022	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 14, 2022	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 14, 2022	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	± 0.10 %

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.3dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.8dB
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----- THE END -----

Appendix A. Test Results of Conducted Test

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

Conducted Output Power(Average power) and EIRP

LTE Band 42:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				43190	43340	43490			
Frequency (MHz)				3560	3575	3590	L	M	H
20	QPSK	1	0	24.78	24.64	24.49	0.0951	0.0920	0.0889
20	QPSK	1	99	24.42	24.56	24.03	0.0875	0.0904	0.0800
20	QPSK	100	0	23.47	23.54	23.26	0.0703	0.0714	0.0670
20	16QAM	1	0	23.96	23.76	23.68	0.0787	0.0752	0.0738
20	64QAM	1	0	21.69	21.39	21.34	0.0467	0.0436	0.0431
20	256QAM	1	0	20.57	20.43	20.29	0.0361	0.0349	0.0338
Channel				43165	43340	43515	EIRP(W)		
Frequency (MHz)				3557.5	3575	3592.5	L	M	H
15	QPSK	1	0	24.75	24.47	24.45	0.0944	0.0885	0.0881
15	16QAM	1	0	24.08	23.71	23.77	0.0809	0.0743	0.0753
Channel				43140	43340	43540	EIRP(W)		
Frequency (MHz)				3555	3575	3595	L	M	H
10	QPSK	1	0	24.77	24.39	24.35	0.0948	0.0869	0.0861
10	16QAM	1	0	23.96	23.62	23.59	0.0787	0.0728	0.0723
Channel				43115	43340	43565	EIRP(W)		
Frequency (MHz)				3552.5	3575	3597.5	L	M	H
5	QPSK	1	0	24.72	24.43	24.25	0.0938	0.0877	0.0841
5	16QAM	1	0	23.98	23.75	23.43	0.0791	0.0750	0.0697

**LTE Band 43:**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				43690	44090	44490			
Frequency (MHz)				3610	3650	3690	L	M	H
20	QPSK	1	0	23.72	23.92	23.88	0.0745	0.0780	0.0773
20	QPSK	1	99	23.77	23.63	23.64	0.0753	0.0729	0.0731
20	QPSK	100	0	22.78	22.73	22.82	0.0600	0.0593	0.0605
20	16QAM	1	0	22.87	22.95	22.91	0.0612	0.0624	0.0618
20	64QAM	1	0	21.64	21.65	21.64	0.0461	0.0462	0.0461
20	256QAM	1	0	18.72	18.77	18.80	0.0236	0.0238	0.0240
Channel				43665	44090	44515	EIRP(W)		
Frequency (MHz)				3607.5	3650	3692.5	L	M	H
15	QPSK	1	0	23.77	23.82	23.83	0.0753	0.0762	0.0764
15	16QAM	1	0	22.91	22.93	22.94	0.0618	0.0621	0.0622
Channel				43640	44090	44540	EIRP(W)		
Frequency (MHz)				3605	3650	3695	L	M	H
10	QPSK	1	0	23.83	23.82	23.91	0.0764	0.0762	0.0778
10	16QAM	1	0	23.22	23.21	23.19	0.0664	0.0662	0.0659
Channel				43615	44090	44565	EIRP(W)		
Frequency (MHz)				3602.5	3650	3697.5	L	M	H
5	QPSK	1	0	23.85	23.89	23.68	0.0767	0.0774	0.0738
5	16QAM	1	0	23.14	23.27	23.12	0.0652	0.0671	0.0649

LTE Band 48:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				55340	55990	56640			
Frequency (MHz)				3560	3625	3690	L	M	H
20	QPSK	1	0	23.62	23.61	23.68	0.0728	0.0726	0.0738
20	QPSK	1	99	23.52	23.56	23.52	0.0711	0.0718	0.0711
20	QPSK	100	0	22.68	22.76	22.61	0.0586	0.0597	0.0577
20	16QAM	1	0	22.47	22.76	22.58	0.0558	0.0597	0.0573
20	64QAM	1	0	21.32	21.24	21.42	0.0429	0.0421	0.0439
20	256QAM	1	0	18.53	18.60	18.53	0.0225	0.0229	0.0225
Channel				55315	55990	56665	EIRP(W)		
Frequency (MHz)				3557.5	3625	3692.5	L	M	H
15	QPSK	1	0	23.51	23.67	23.53	0.0710	0.0736	0.0713
15	16QAM	1	0	22.35	22.56	22.48	0.0543	0.0570	0.0560
Channel				55290	55990	56690	EIRP(W)		
Frequency (MHz)				3555	3625	3695	L	M	H
10	QPSK	1	0	23.48	23.65	23.61	0.0705	0.0733	0.0726
10	16QAM	1	0	22.33	22.55	22.45	0.0541	0.0569	0.0556
Channel				55265	55990	56715	EIRP(W)		
Frequency (MHz)				3552.5	3625	3697.5	L	M	H
5	QPSK	1	0	23.48	23.62	23.59	0.0705	0.0728	0.0723
5	16QAM	1	0	22.32	22.74	22.51	0.0540	0.0594	0.0564



LTE Band 42C:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP		
Channel				L	M	H	L	M	H
20+20	QPSK	1RB01RBMAX		-1.57	-1.54	-1.58	0.0002	0.0002	0.0002
	QPSK	1RBMAX1RB0		24.45	24.47	24.34	0.0881	0.0885	0.0859
	QPSK	FULL		10.69	10.74	10.66	0.0037	0.0037	0.0037
	16QAM	1RB01RBMAX		-1.58	-1.59	-1.62	0.0002	0.0002	0.0002
	16QAM	1RBMAX1RB0		23.69	23.63	23.67	0.0740	0.0729	0.0736
	16QAM	FULL		10.65	10.70	10.65	0.0037	0.0037	0.0037
	64QAM	1RB01RBMAX		-1.81	-1.80	-1.79	0.0002	0.0002	0.0002
	64QAM	1RBMAX1RB0		20.35	20.37	20.35	0.0343	0.0344	0.0343
	64QAM	FULL		10.64	10.69	10.65	0.0037	0.0037	0.0037
	256QAM	1RB01RBMAX		-1.70	-1.65	-1.64	0.0002	0.0002	0.0002
	256QAM	1RBMAX1RB0		19.32	19.45	19.48	0.0270	0.0279	0.0281
	256QAM	FULL		10.61	10.67	10.63	0.0036	0.0037	0.0037
20+15	QPSK	1RB01RBMAX		-0.82	-0.94	-0.94	0.0003	0.0003	0.0003
	QPSK	1RBMAX1RB0		24.48	24.50	24.36	0.0887	0.0891	0.0863
	QPSK	FULL		12.78	12.83	12.79	0.0060	0.0061	0.0060
	16QAM	1RBMAX1RB0		23.56	23.55	23.53	0.0718	0.0716	0.0713
	64QAM	1RBMAX1RB0		20.62	20.41	20.22	0.0365	0.0348	0.0333
	256QAM	1RBMAX1RB0		19.38	19.54	19.40	0.0274	0.0284	0.0275
20+10	QPSK	1RB01RBMAX		-0.47	-0.42	-0.38	0.0003	0.0003	0.0003
	QPSK	1RBMAX1RB0		24.38	24.44	24.46	0.0867	0.0879	0.0883
	QPSK	FULL		12.69	12.76	12.79	0.0059	0.0060	0.0060
	16QAM	1RBMAX1RB0		24.20	23.85	23.57	0.0832	0.0767	0.0719
	64QAM	1RBMAX1RB0		20.92	20.43	20.26	0.0391	0.0349	0.0336
	256QAM	1RBMAX1RB0		12.86	12.61	12.23	0.0061	0.0058	0.0053
20+5	QPSK	1RB01RBMAX		0.46	0.49	0.49	0.0004	0.0004	0.0004
	QPSK	1RBMAX1RB0		20.50	20.50	20.45	0.0355	0.0355	0.0351
	QPSK	FULL		12.66	12.64	12.63	0.0058	0.0058	0.0058
	16QAM	1RBMAX1RB0		20.84	20.89	20.83	0.0384	0.0388	0.0383
	64QAM	1RBMAX1RB0		20.17	20.19	20.10	0.0329	0.0330	0.0324
	256QAM	1RBMAX1RB0		19.45	19.40	19.18	0.0279	0.0275	0.0262
15+20	QPSK	1RB01RBMAX		-1.03	-1.01	-0.82	0.0002	0.0003	0.0003
	QPSK	1RBMAX1RB0		24.46	24.58	24.68	0.0883	0.0908	0.0929
	QPSK	FULL		12.81	12.83	12.79	0.0060	0.0061	0.0060
	16QAM	1RBMAX1RB0		23.89	23.94	24.13	0.0774	0.0783	0.0818
	64QAM	1RBMAX1RB0		20.57	20.60	20.94	0.0361	0.0363	0.0393
	256QAM	1RBMAX1RB0		19.21	19.72	19.87	0.0264	0.0296	0.0307
10+20	QPSK	1RB01RBMAX		-0.48	-0.55	-0.40	0.0003	0.0003	0.0003
	QPSK	1RBMAX1RB0		24.51	24.62	24.58	0.0893	0.0916	0.0908
	QPSK	FULL		12.64	12.77	12.76	0.0058	0.0060	0.0060
	16QAM	1RBMAX1RB0		24.01	24.25	23.86	0.0796	0.0841	0.0769
	64QAM	1RBMAX1RB0		20.86	20.98	20.44	0.0385	0.0396	0.0350
	256QAM	1RBMAX1RB0		12.75	12.77	12.45	0.0060	0.0060	0.0056
5+20	QPSK	1RB01RBMAX		0.60	0.51	0.50	0.0004	0.0004	0.0004
	QPSK	1RBMAX1RB0		20.54	20.51	20.47	0.0358	0.0356	0.0352
	QPSK	FULL		12.74	12.75	12.63	0.0059	0.0060	0.0058
	16QAM	1RBMAX1RB0		20.93	20.94	20.90	0.0392	0.0393	0.0389
	64QAM	1RBMAX1RB0		20.26	20.20	20.16	0.0336	0.0331	0.0328
	256QAM	1RBMAX1RB0		19.48	19.49	19.40	0.0281	0.0281	0.0275



LTE Band 48C:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP		
Channel				L	M	H	L	M	H
20+20	QPSK	1RB01RBMAX		0.73	13.93	1.79	0.0004	0.0078	0.0005
	QPSK	1RBMAX1RB0		19.70	23.10	19.50	0.0295	0.0646	0.0282
	QPSK	FULL		9.36	19.68	9.31	0.0027	0.0294	0.0027
	16QAM	1RB01RBMAX		0.90	14.13	1.85	0.0004	0.0082	0.0005
	16QAM	1RBMAX1RB0		19.68	23.04	19.48	0.0294	0.0637	0.0281
	16QAM	FULL		9.49	19.72	9.43	0.0028	0.0296	0.0028
	64QAM	1RB01RBMAX		0.53	13.86	1.54	0.0004	0.0077	0.0005
	64QAM	1RBMAX1RB0		19.38	20.89	19.23	0.0274	0.0388	0.0265
	64QAM	FULL		9.47	19.76	9.48	0.0028	0.0299	0.0028
	256QAM	1RB01RBMAX		0.72	14.03	1.79	0.0004	0.0080	0.0005
	256QAM	1RBMAX1RB0		19.06	19.05	19.21	0.0255	0.0254	0.0264
	256QAM	FULL		9.52	19.26	9.45	0.0028	0.0267	0.0028
20+15	QPSK	1RB01RBMAX		0.53	9.52	1.93	0.0004	0.0028	0.0005
	QPSK	1RBMAX1RB0		18.05	22.92	18.24	0.0202	0.0619	0.0211
	QPSK	FULL		9.16	18.21	9.66	0.0026	0.0209	0.0029
	16QAM	1RB01RBMAX		0.70	9.50	2.03	0.0004	0.0028	0.0005
	16QAM	1RBMAX1RB0		18.04	23.01	18.22	0.0201	0.0632	0.0210
	16QAM	FULL		9.55	18.21	9.64	0.0029	0.0209	0.0029
	64QAM	1RB01RBMAX		0.45	9.36	1.72	0.0004	0.0027	0.0005
	64QAM	1RBMAX1RB0		17.70	22.14	17.79	0.0186	0.0518	0.0190
	64QAM	FULL		9.22	18.31	9.63	0.0026	0.0214	0.0029
	256QAM	1RB01RBMAX		0.59	9.40	1.89	0.0004	0.0028	0.0005
	256QAM	1RBMAX1RB0		18.02	19.46	18.41	0.0200	0.0279	0.0219
	256QAM	FULL		9.26	18.30	9.62	0.0027	0.0214	0.0029
20+10	QPSK	1RB01RBMAX		0.80	9.59	1.80	0.0004	0.0029	0.0005
	QPSK	1RBMAX1RB0		18.08	22.60	18.01	0.0203	0.0575	0.0200
	QPSK	FULL		9.41	15.33	9.33	0.0028	0.0108	0.0027
	16QAM	1RB01RBMAX		0.85	9.58	1.79	0.0004	0.0029	0.0005
	16QAM	1RBMAX1RB0		18.06	22.69	18.07	0.0202	0.0587	0.0203
	16QAM	FULL		9.48	15.31	9.34	0.0028	0.0107	0.0027
	64QAM	1RB01RBMAX		0.59	9.24	1.56	0.0004	0.0027	0.0005
	64QAM	1RBMAX1RB0		17.73	20.93	17.63	0.0187	0.0392	0.0183
	64QAM	FULL		9.51	15.39	9.40	0.0028	0.0109	0.0028
	256QAM	1RB01RBMAX		0.69	9.42	1.74	0.0004	0.0028	0.0005
	256QAM	1RBMAX1RB0		18.11	19.06	18.25	0.0205	0.0255	0.0211
	256QAM	FULL		9.51	15.40	9.45	0.0028	0.0110	0.0028
20+5	QPSK	1RB01RBMAX		0.83	14.38	1.71	0.0004	0.0087	0.0005
	QPSK	1RBMAX1RB0		19.19	22.13	19.00	0.0262	0.0516	0.0251
	QPSK	FULL		9.51	19.31	9.28	0.0028	0.0270	0.0027
	16QAM	1RB01RBMAX		0.90	14.60	1.83	0.0004	0.0091	0.0005
	16QAM	1RBMAX1RB0		19.21	22.12	18.98	0.0264	0.0515	0.0250
	16QAM	FULL		9.56	19.33	9.31	0.0029	0.0271	0.0027
	64QAM	1RB01RBMAX		0.63	14.14	1.54	0.0004	0.0082	0.0005
	64QAM	1RBMAX1RB0		18.81	20.83	18.67	0.0240	0.0383	0.0233
	64QAM	FULL		9.58	19.30	9.28	0.0029	0.0269	0.0027
	256QAM	1RB01RBMAX		0.51	14.29	1.64	0.0004	0.0085	0.0005
	256QAM	1RBMAX1RB0		19.12	19.14	18.99	0.0258	0.0259	0.0251
	256QAM	FULL		9.60	19.37	9.36	0.0029	0.0274	0.0027

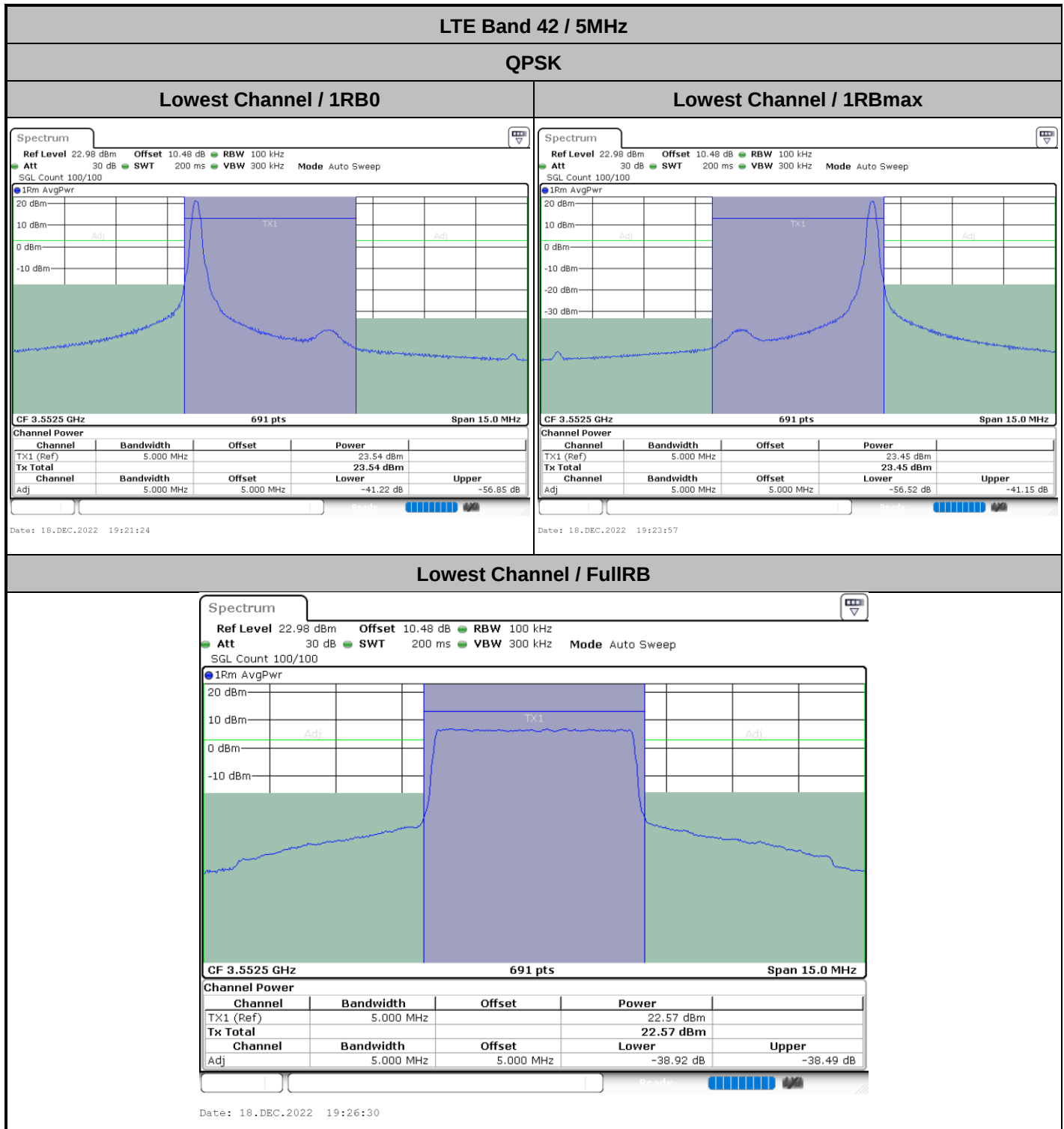


15+20	QPSK	1RB01RBMAX	0.66	9.62	1.61	0.0004	0.0029	0.0005
	QPSK	1RBMAX1RB0	18.19	23.20	17.95	0.0208	0.0661	0.0197
	QPSK	FULL	9.38	18.30	9.28	0.0027	0.0214	0.0027
	16QAM	1RB01RBMAX	0.84	9.61	1.68	0.0004	0.0029	0.0005
	16QAM	1RBMAX1RB0	18.53	23.14	17.94	0.0225	0.0652	0.0197
	16QAM	FULL	9.44	18.28	9.04	0.0028	0.0213	0.0025
	64QAM	1RB01RBMAX	0.52	9.18	1.43	0.0004	0.0026	0.0004
	64QAM	1RBMAX1RB0	18.04	20.75	17.67	0.0201	0.0376	0.0185
	64QAM	FULL	9.47	18.38	9.27	0.0028	0.0218	0.0027
	256QAM	1RB01RBMAX	0.65	9.31	1.58	0.0004	0.0027	0.0005
	256QAM	1RBMAX1RB0	18.08	18.99	18.17	0.0203	0.0251	0.0207
	256QAM	FULL	9.46	18.36	9.39	0.0028	0.0217	0.0027
10+20	QPSK	1RB01RBMAX	0.88	9.59	1.79	0.0004	0.0029	0.0005
	QPSK	1RBMAX1RB0	18.23	22.79	18.19	0.0210	0.0601	0.0208
	QPSK	FULL	9.51	15.44	9.38	0.0028	0.0111	0.0027
	16QAM	1RB01RBMAX	1.01	9.52	1.97	0.0004	0.0028	0.0005
	16QAM	1RBMAX1RB0	18.56	22.85	18.44	0.0227	0.0610	0.0221
	16QAM	FULL	9.58	15.45	9.46	0.0029	0.0111	0.0028
	64QAM	1RB01RBMAX	0.68	9.24	1.58	0.0004	0.0027	0.0005
	64QAM	1RBMAX1RB0	18.05	20.96	18.03	0.0202	0.0394	0.0201
	64QAM	FULL	9.60	15.53	9.48	0.0029	0.0113	0.0028
	256QAM	1RB01RBMAX	0.84	9.44	1.76	0.0004	0.0028	0.0005
	256QAM	1RBMAX1RB0	18.19	19.10	18.19	0.0208	0.0257	0.0208
	256QAM	FULL	9.56	15.47	9.54	0.0029	0.0111	0.0028
5+20	QPSK	1RB01RBMAX	1.03	14.48	1.76	0.0004	0.0089	0.0005
	QPSK	1RBMAX1RB0	18.66	22.23	18.62	0.0232	0.0528	0.0230
	QPSK	FULL	9.54	19.48	9.28	0.0028	0.0281	0.0027
	16QAM	1RB01RBMAX	1.18	14.64	1.62	0.0004	0.0092	0.0005
	16QAM	1RBMAX1RB0	18.78	22.23	18.67	0.0239	0.0528	0.0233
	16QAM	FULL	9.64	19.62	9.32	0.0029	0.0290	0.0027
	64QAM	1RB01RBMAX	0.77	14.28	1.43	0.0004	0.0085	0.0004
	64QAM	1RBMAX1RB0	18.38	21.03	18.22	0.0218	0.0401	0.0210
	64QAM	FULL	9.54	19.39	9.33	0.0028	0.0275	0.0027
	256QAM	1RB01RBMAX	0.90	14.37	1.74	0.0004	0.0086	0.0005
	256QAM	1RBMAX1RB0	18.83	19.35	18.66	0.0242	0.0272	0.0232
	256QAM	FULL	9.53	19.42	9.20	0.0028	0.0277	0.0026



LTE Band 42

ACLR

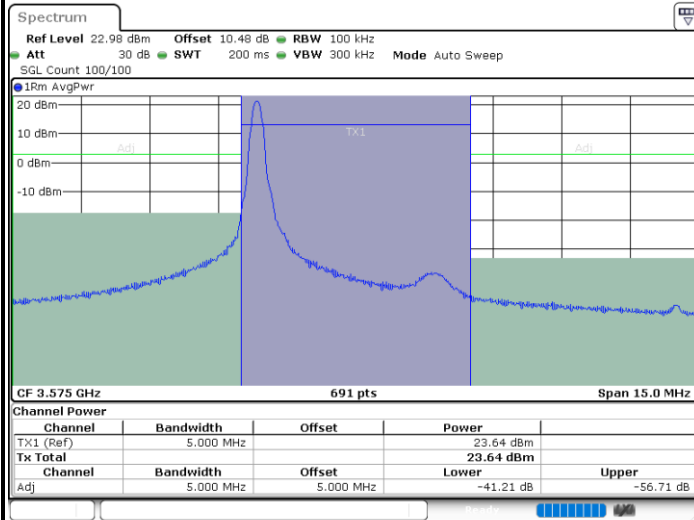




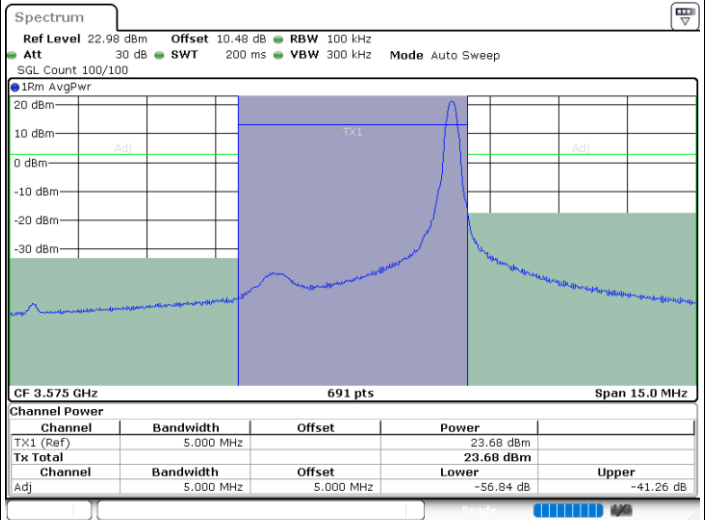
LTE Band 42 / 5MHz

QPSK

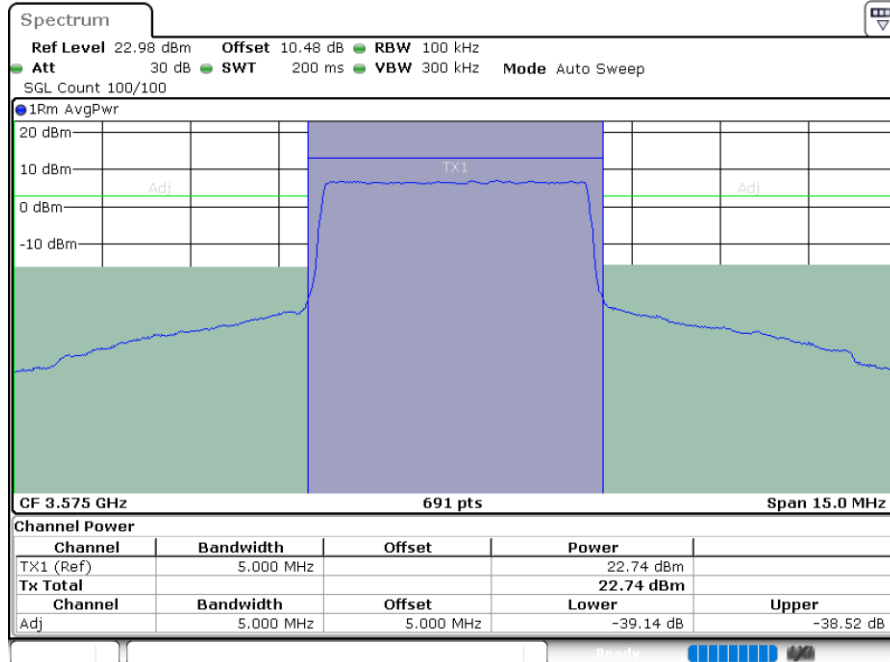
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB

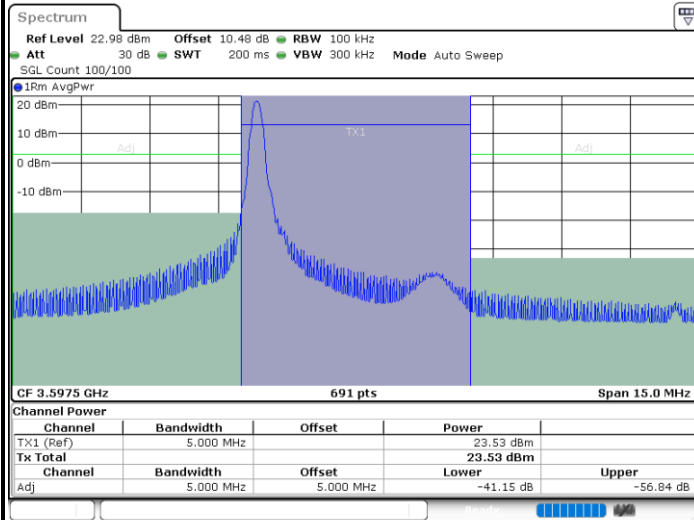




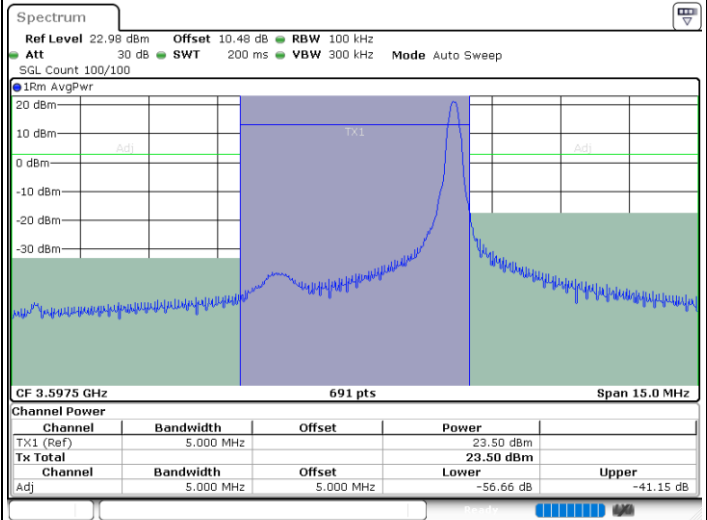
LTE Band 42 / 5MHz

QPSK

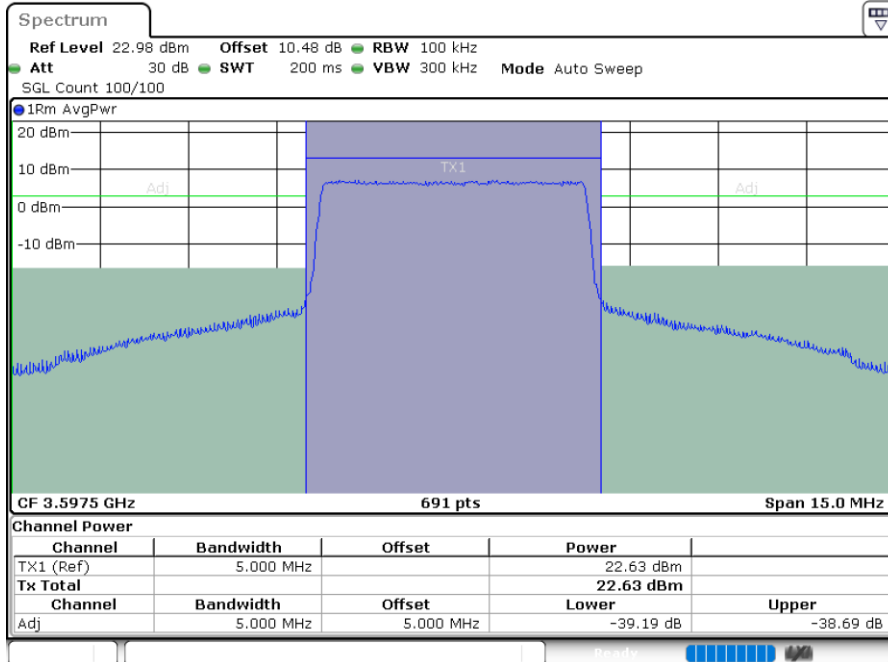
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB

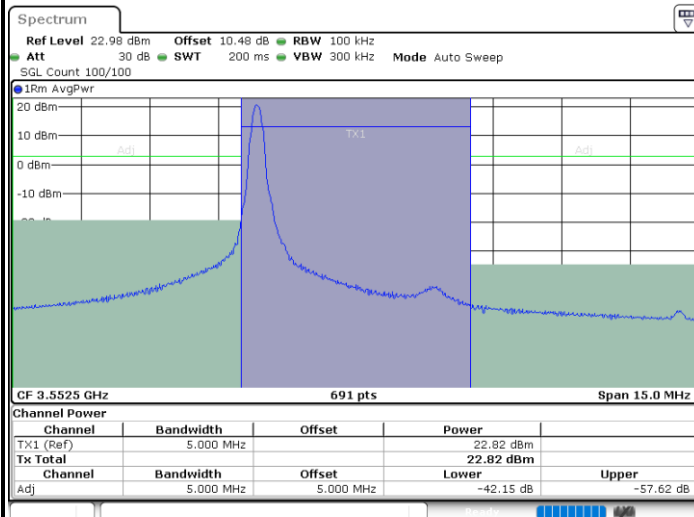




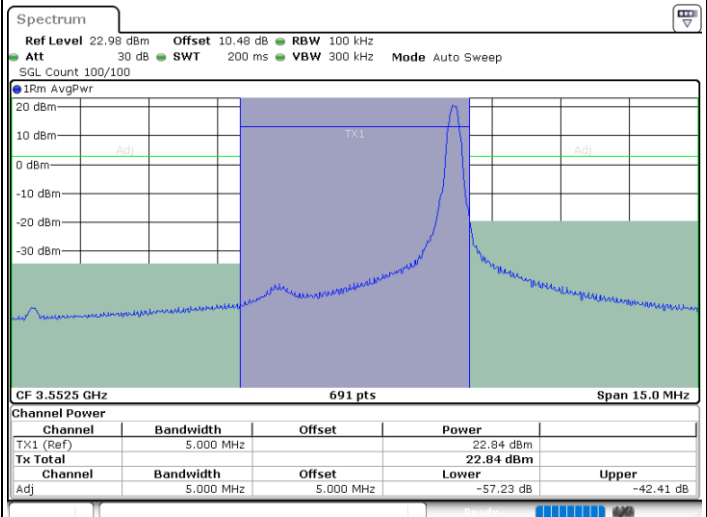
LTE Band 42 / 5MHz

16QAM

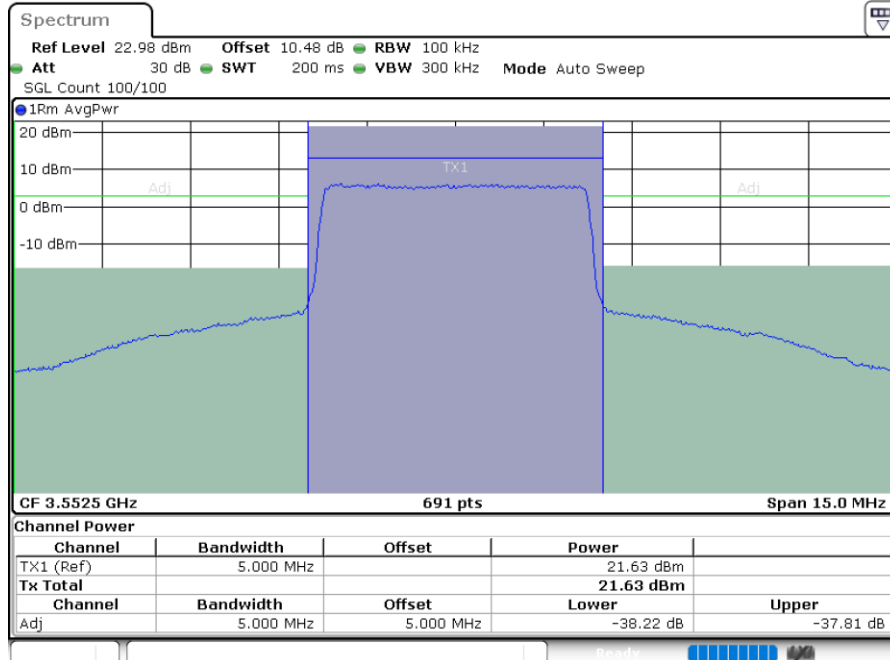
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullIRB

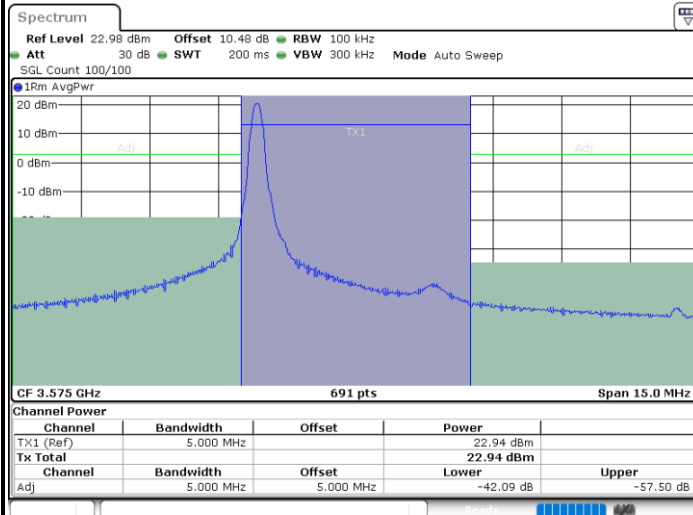




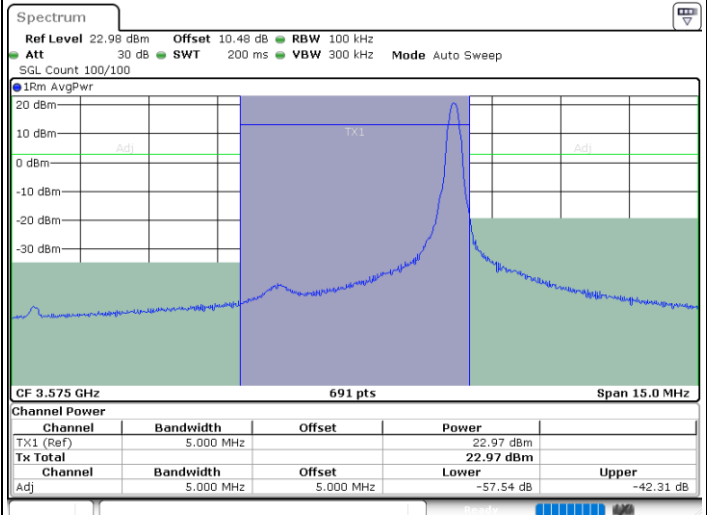
LTE Band 42 / 5MHz

16QAM

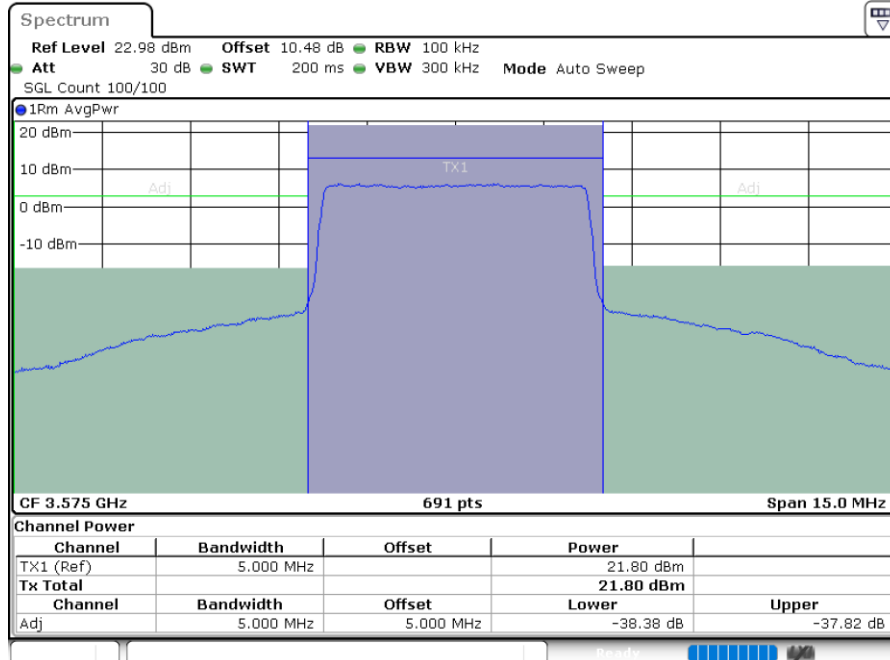
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB

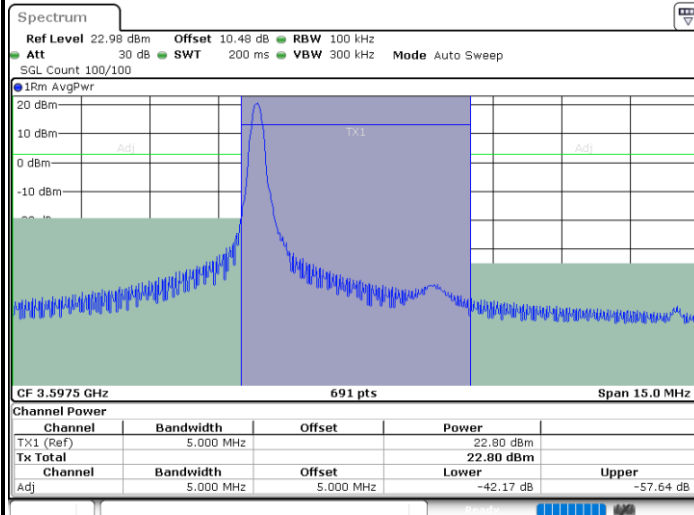




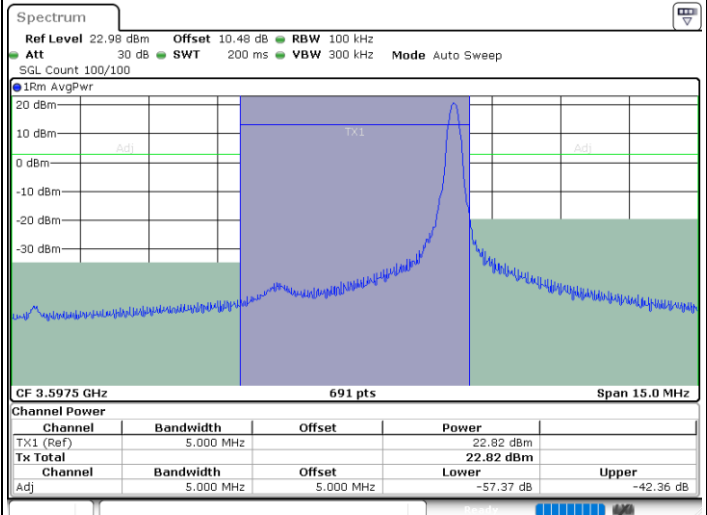
LTE Band 42 / 5MHz

16QAM

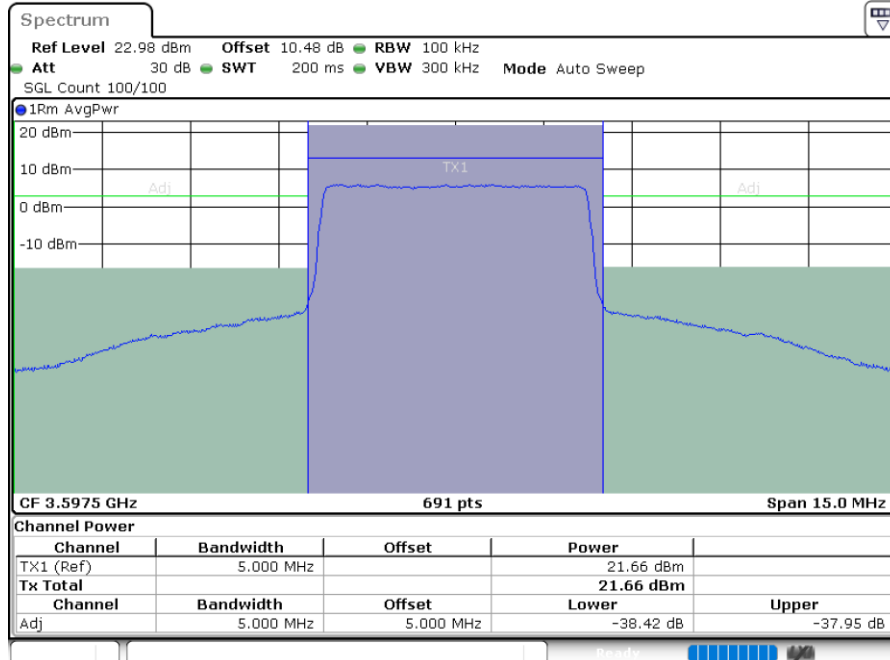
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB

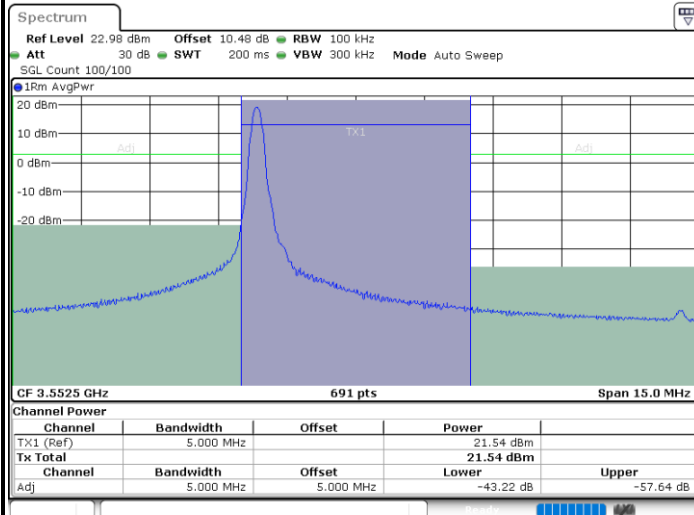




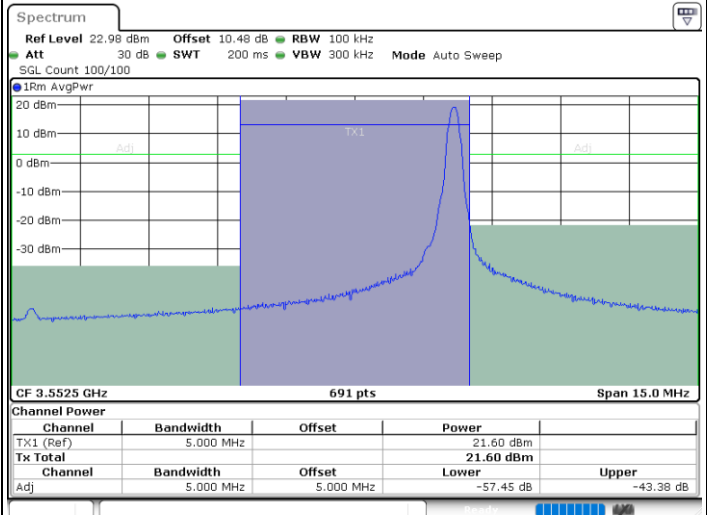
LTE Band 42 / 5MHz

64QAM

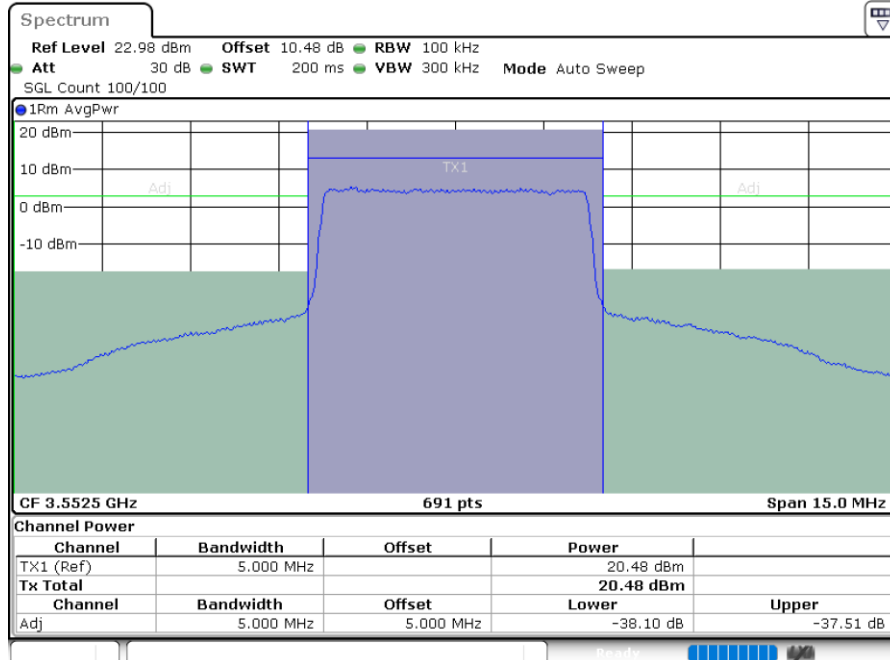
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullIRB

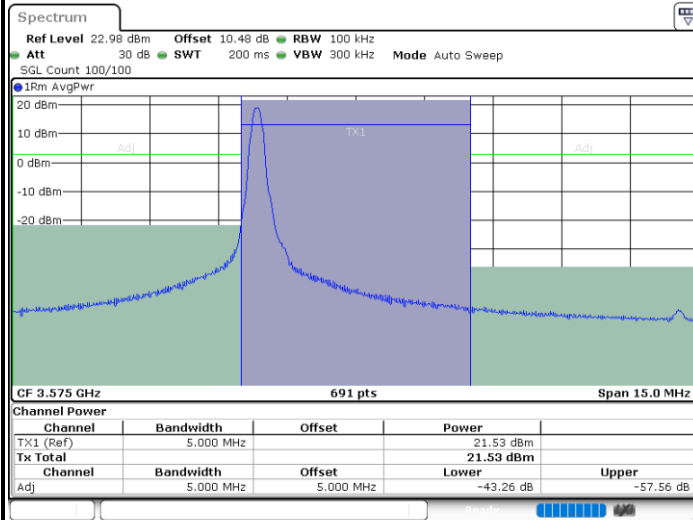




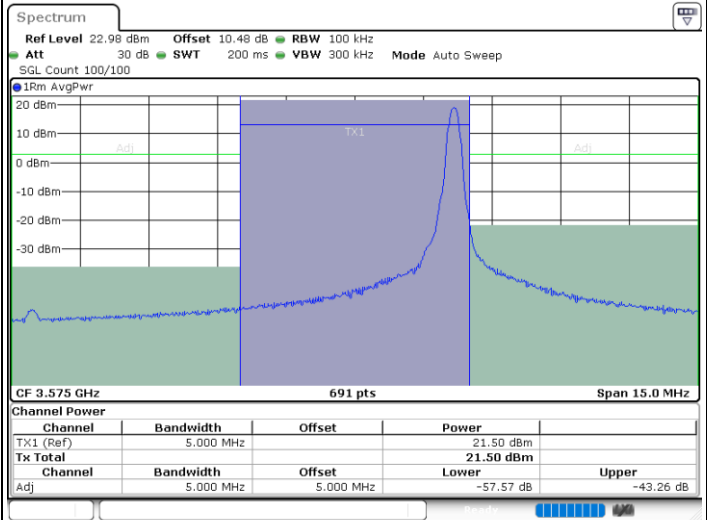
LTE Band 42 / 5MHz

64QAM

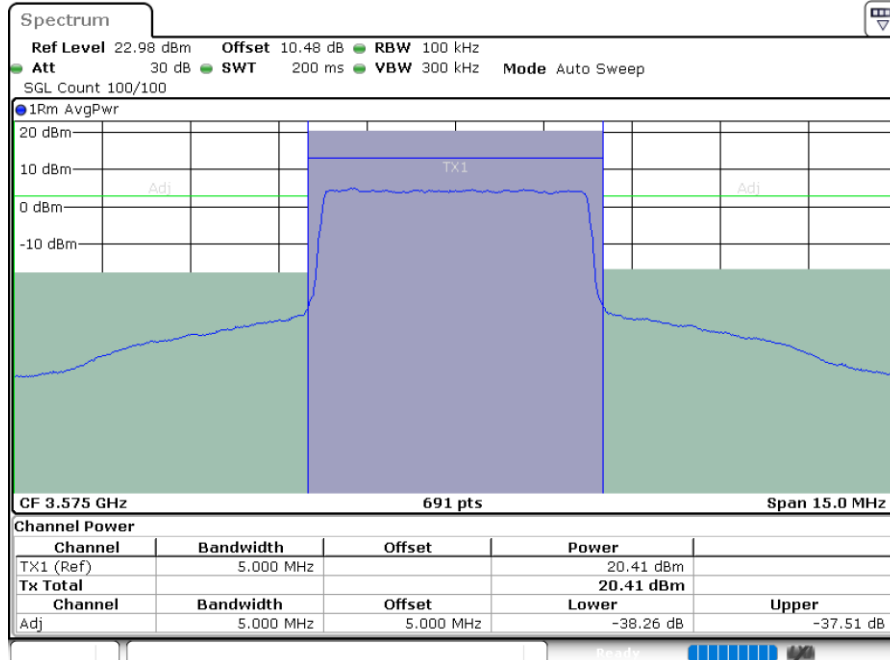
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB

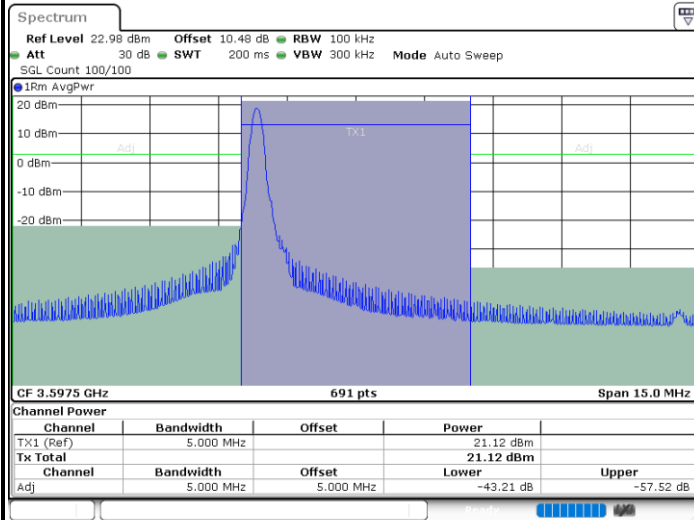




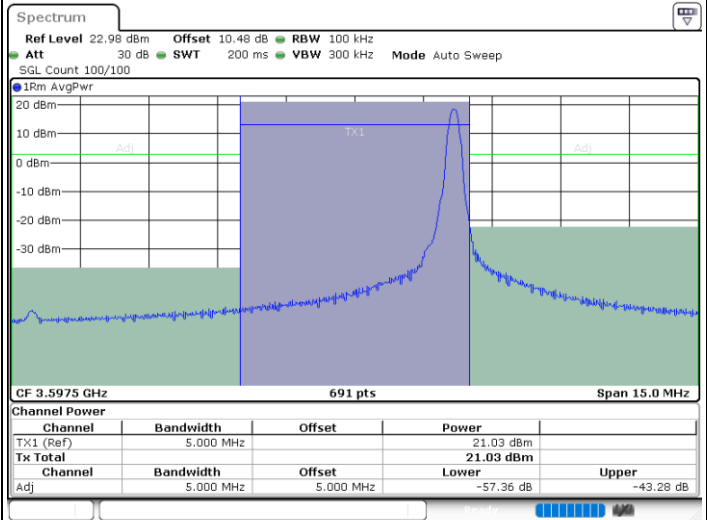
LTE Band 42 / 5MHz

64QAM

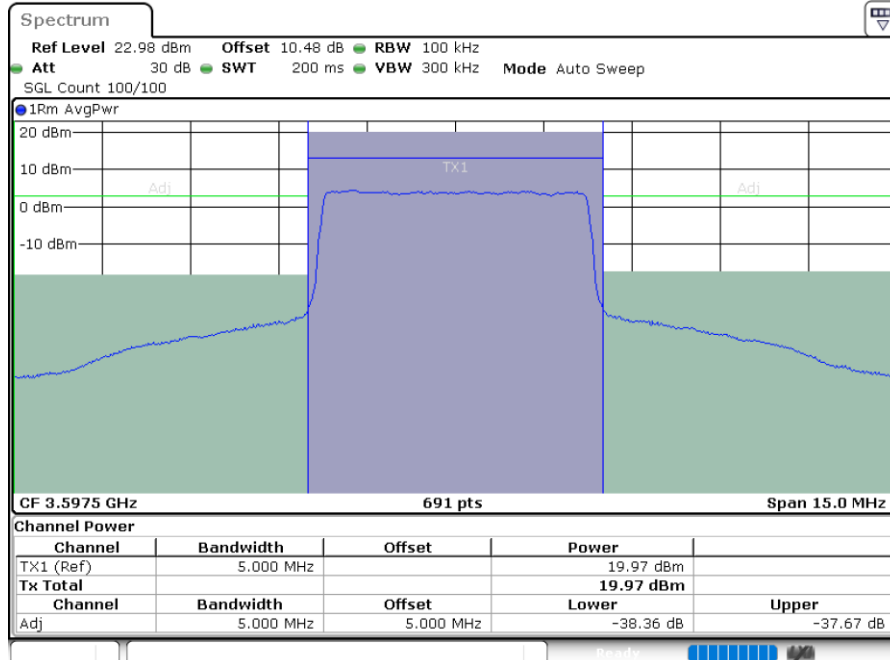
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB

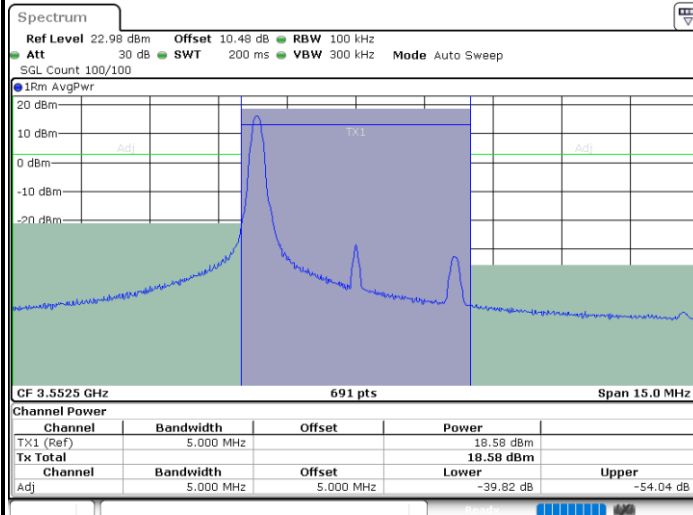




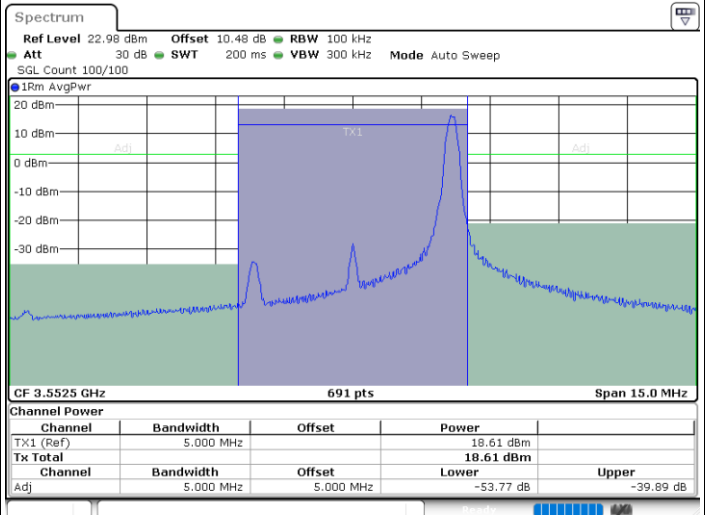
LTE Band 42 / 5MHz

256QAM

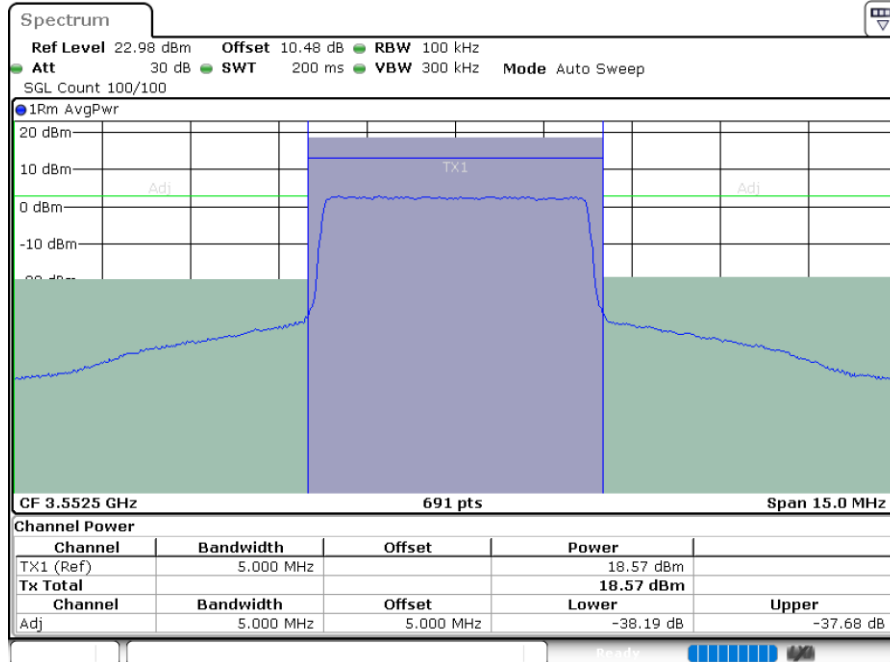
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullIRB

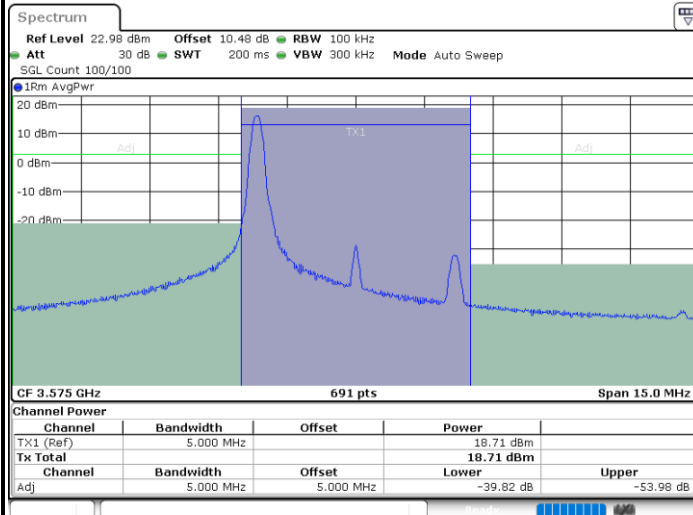




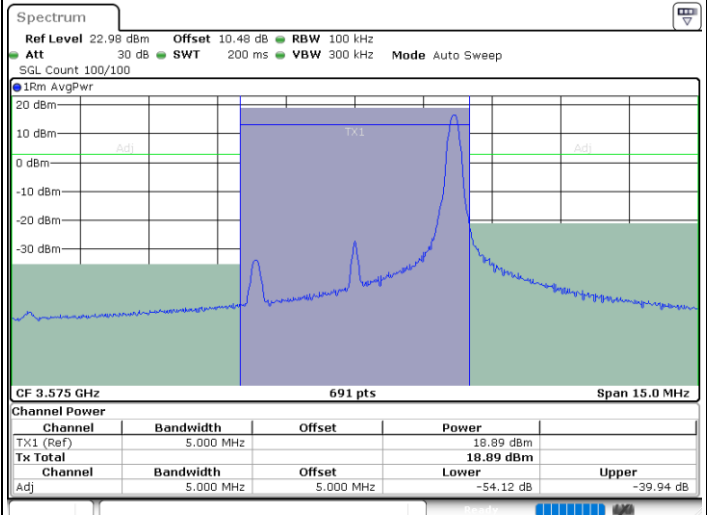
LTE Band 42 / 5MHz

256QAM

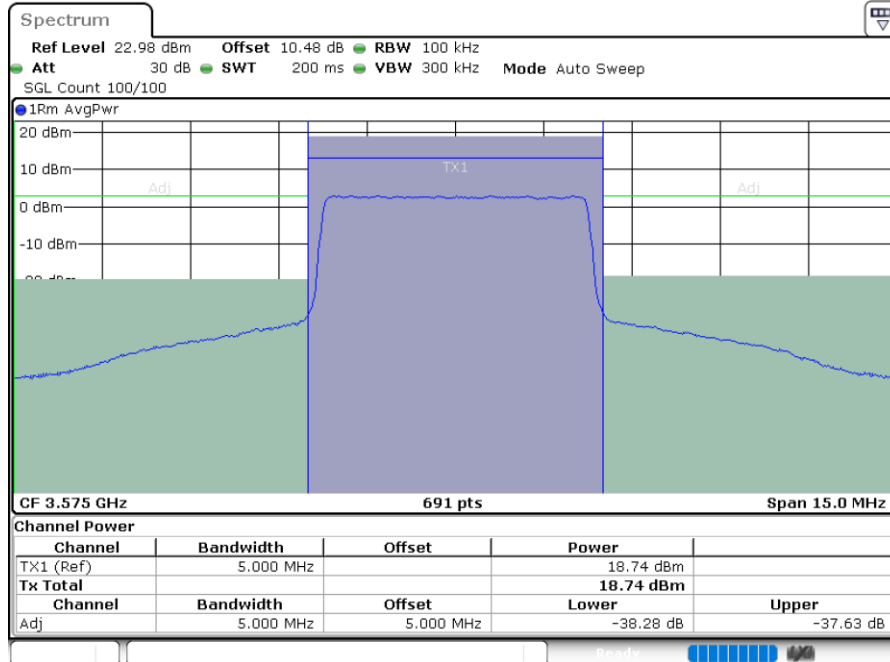
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB

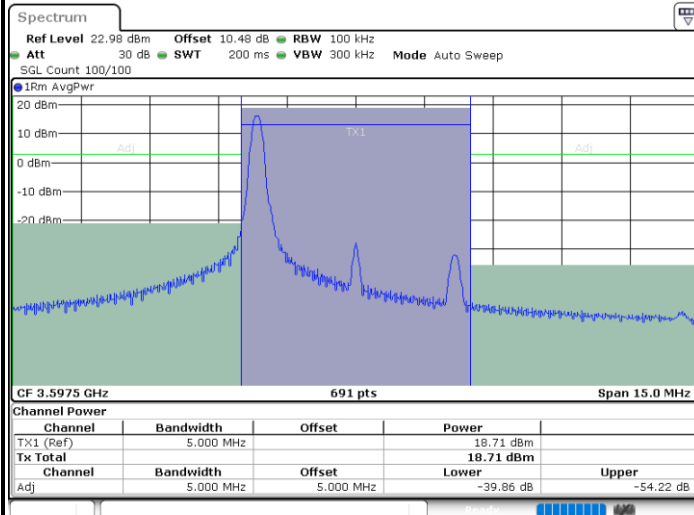




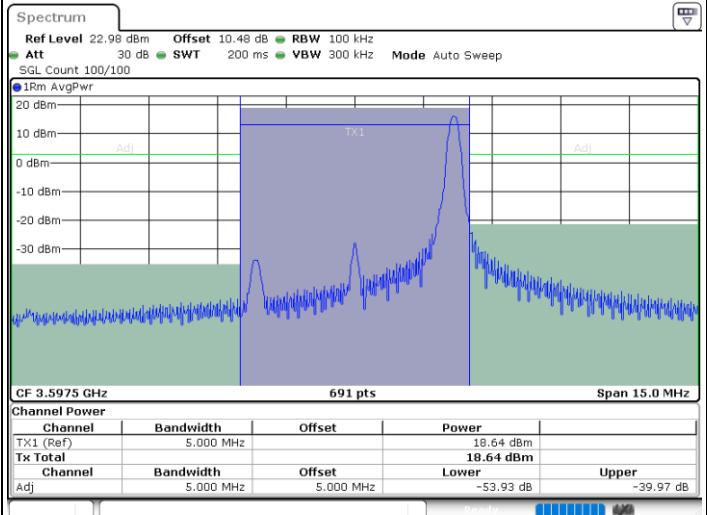
LTE Band 42 / 5MHz

256QAM

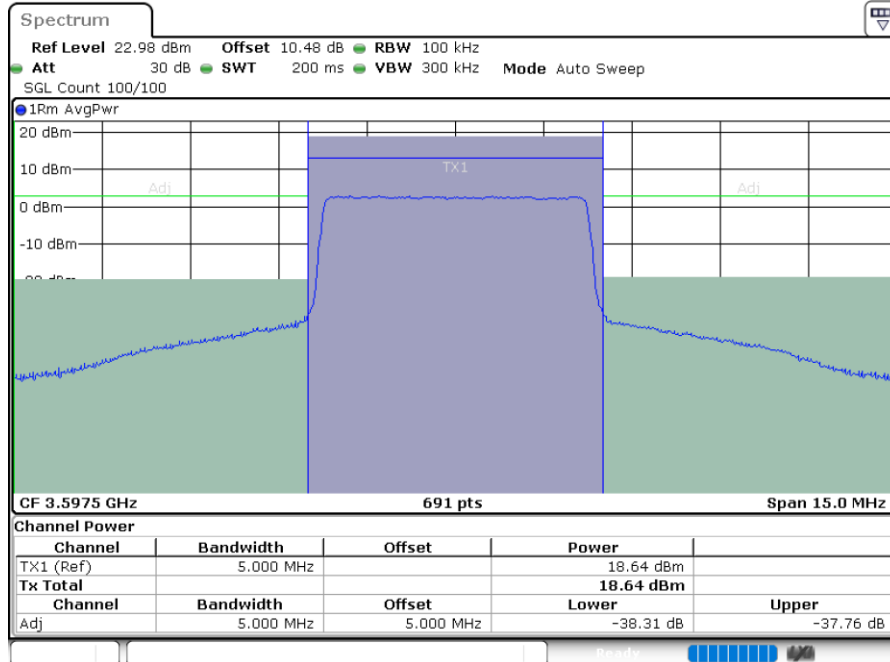
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB

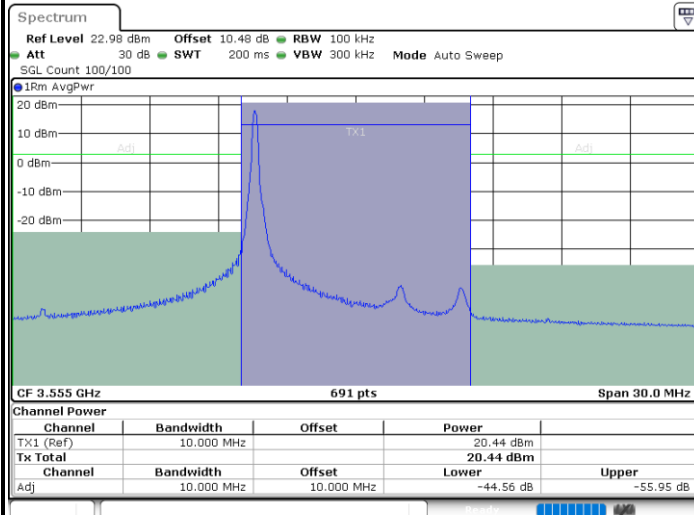




LTE Band 42 / 10MHz

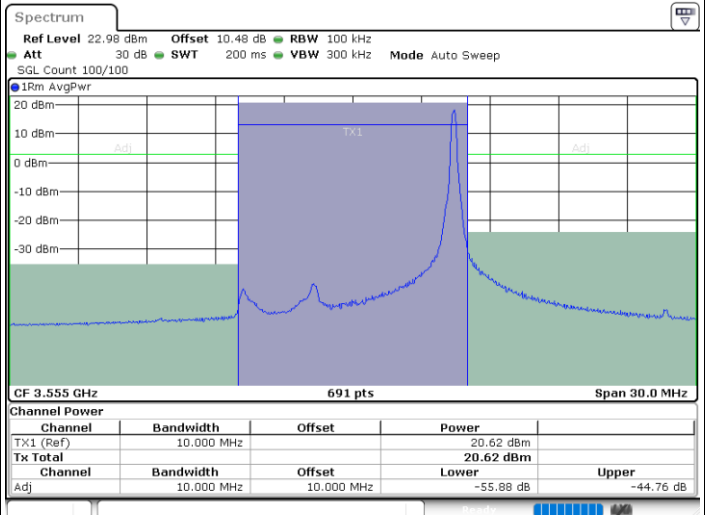
QPSK

Lowest Channel / 1RB0



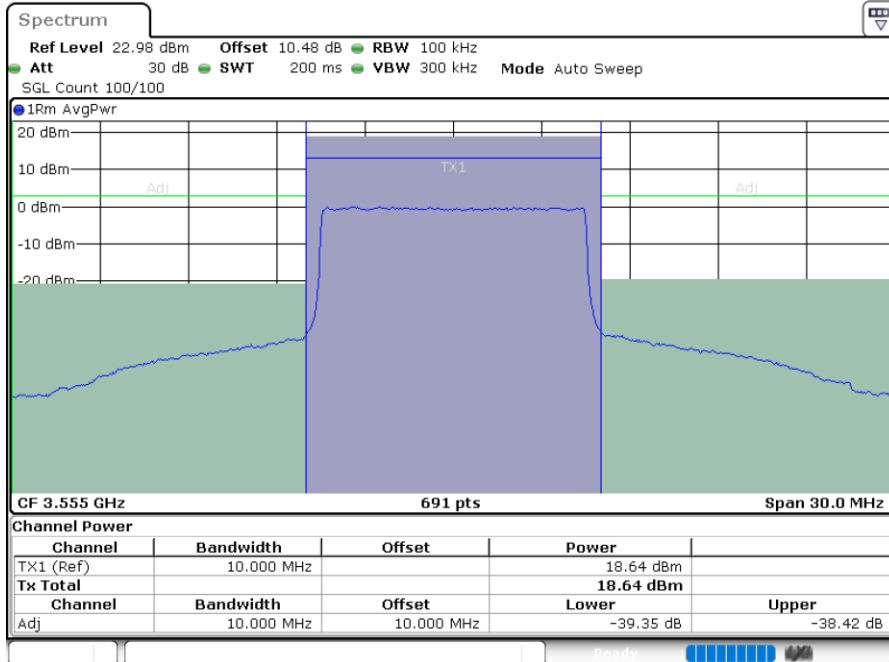
Date: 18.DEC.2022 19:44:32

Lowest Channel / 1RBmax



Date: 18.DEC.2022 19:47:06

Lowest Channel / FullIRB



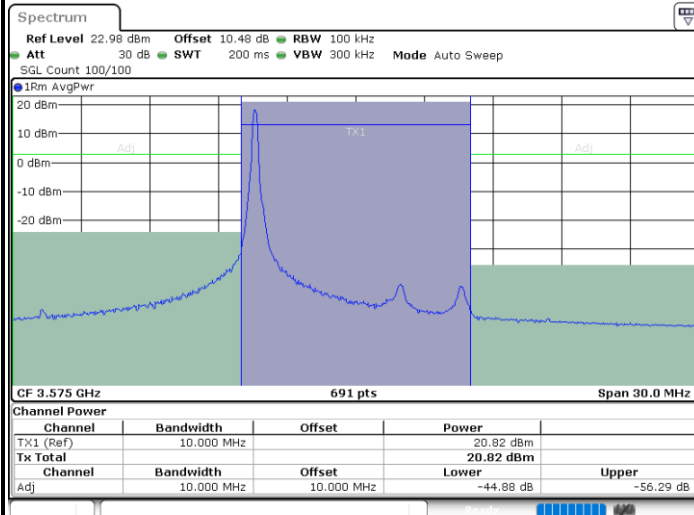
Date: 18.DEC.2022 19:49:40



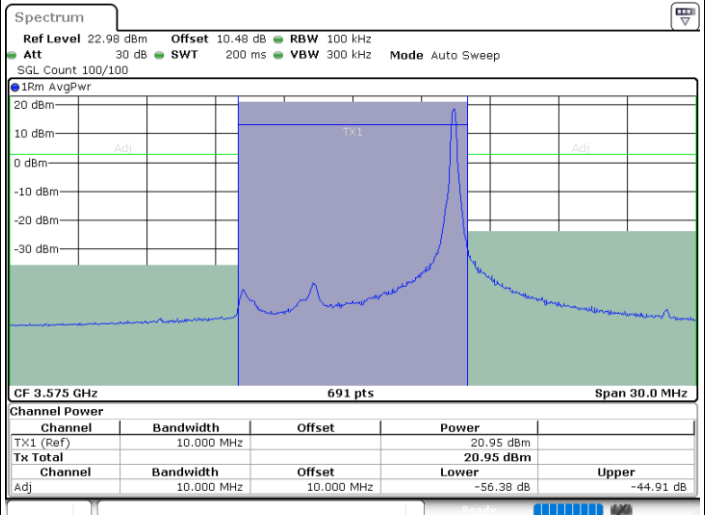
LTE Band 42 / 10MHz

QPSK

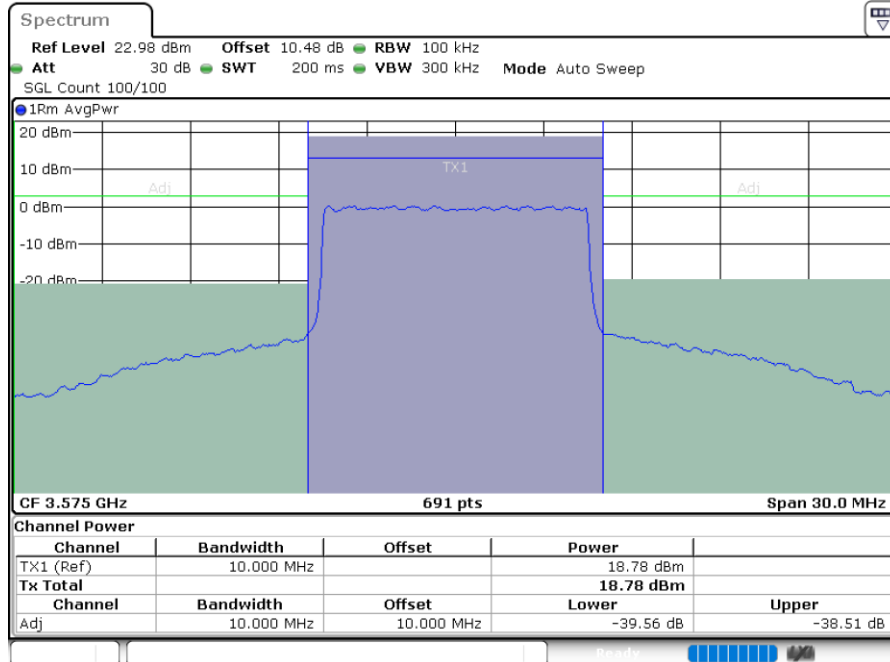
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB

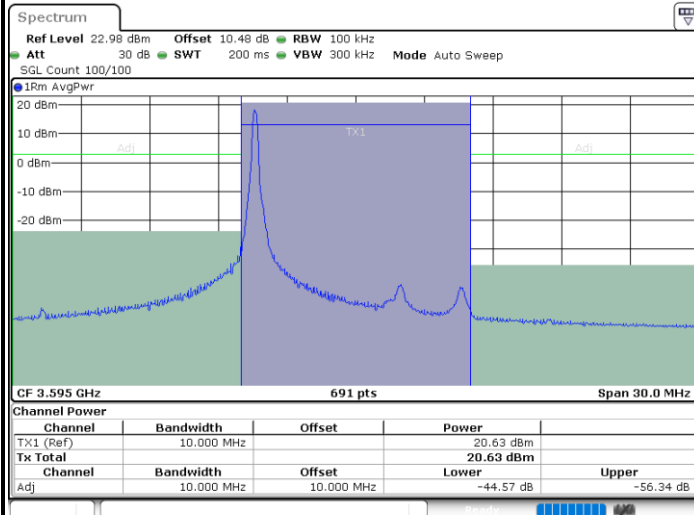




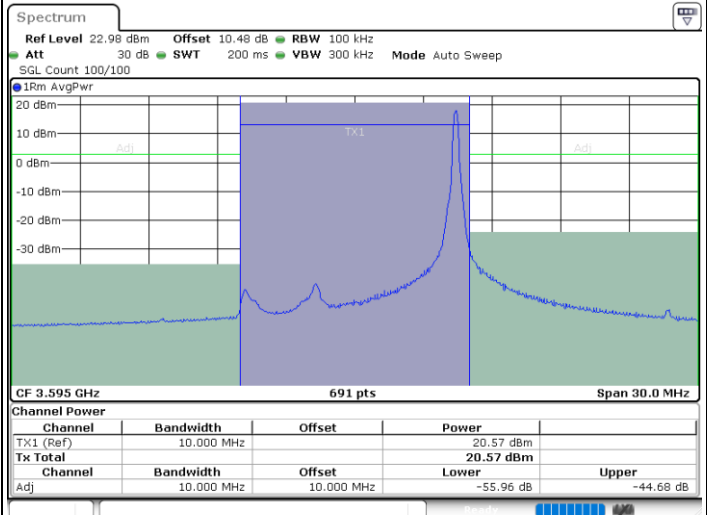
LTE Band 42 / 10MHz

QPSK

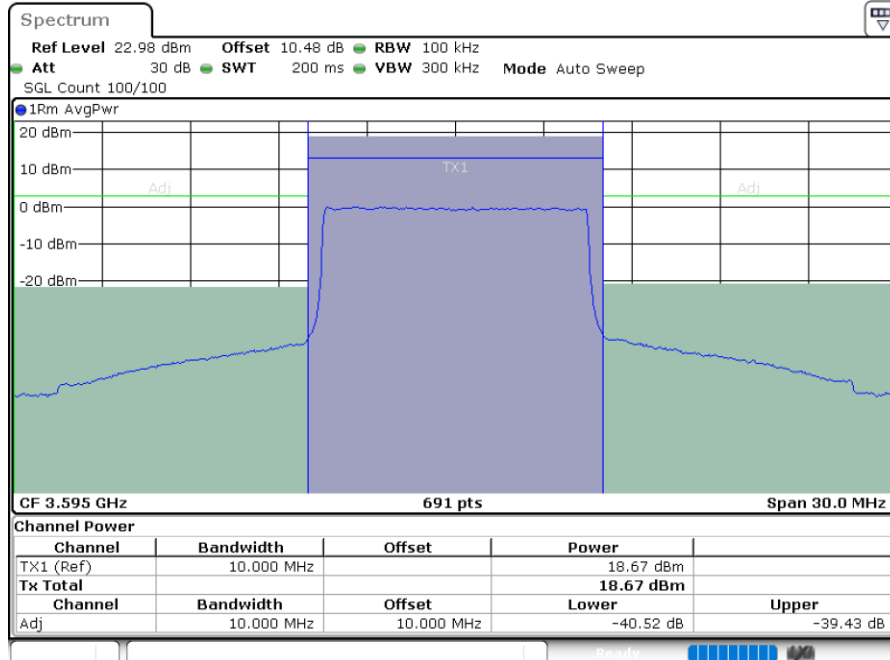
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB

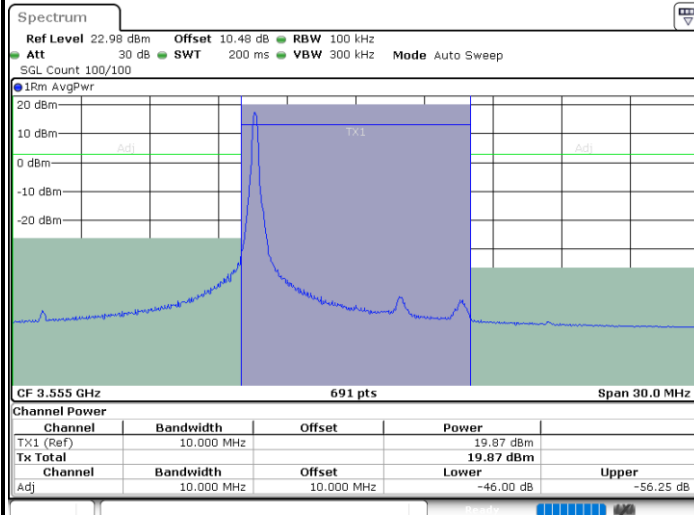




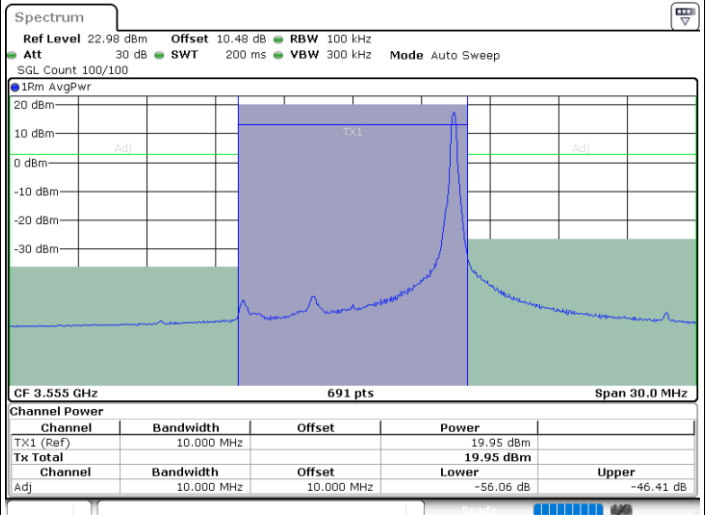
LTE Band 42 / 10MHz

16QAM

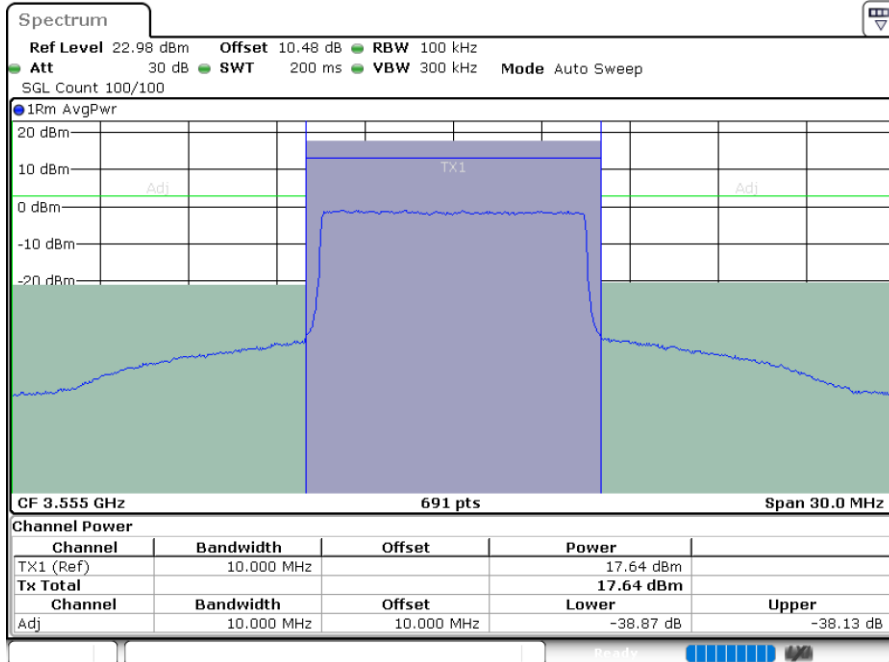
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB

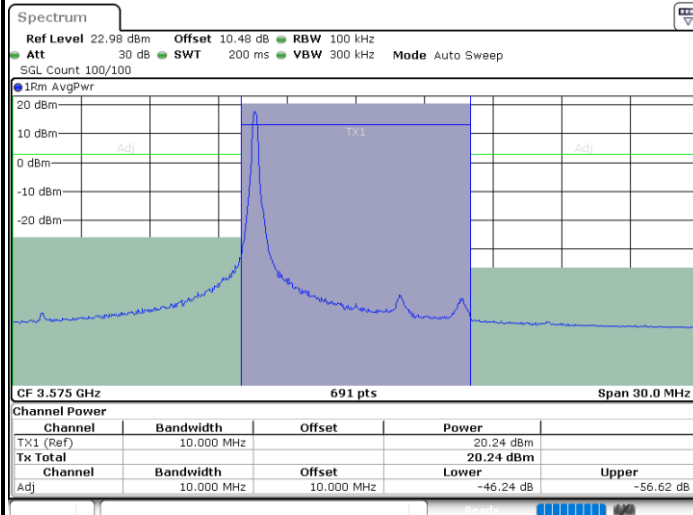




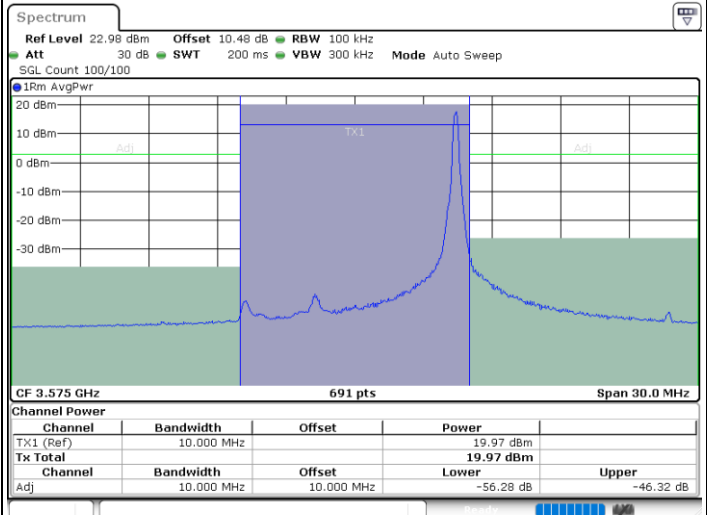
LTE Band 42 / 10MHz

16QAM

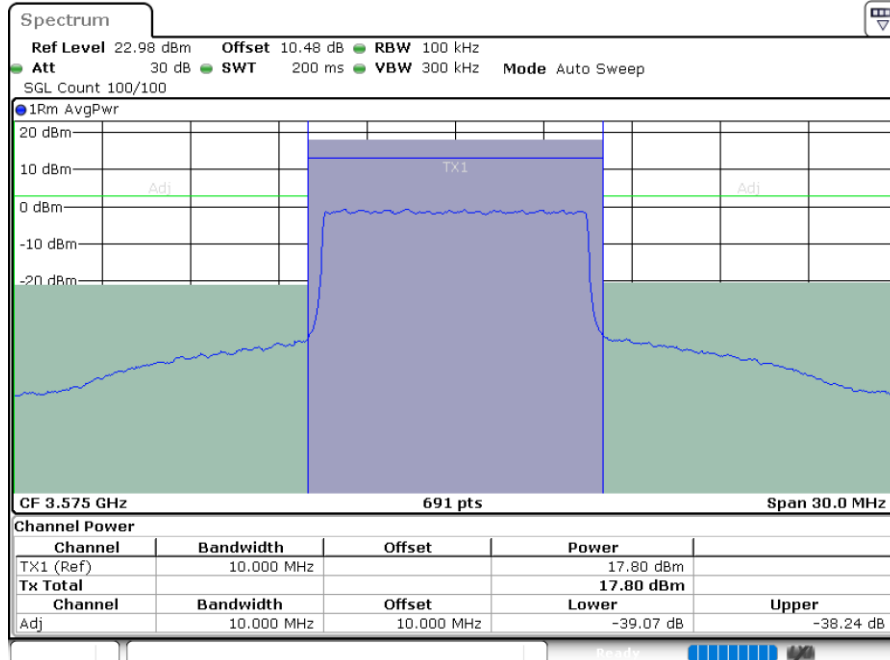
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB

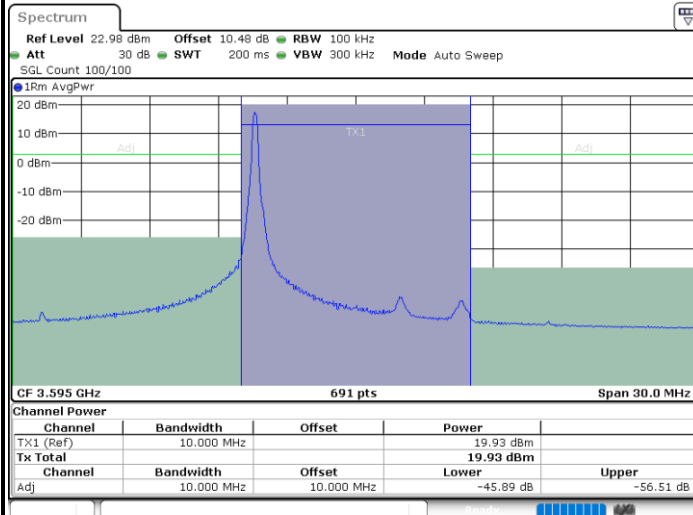




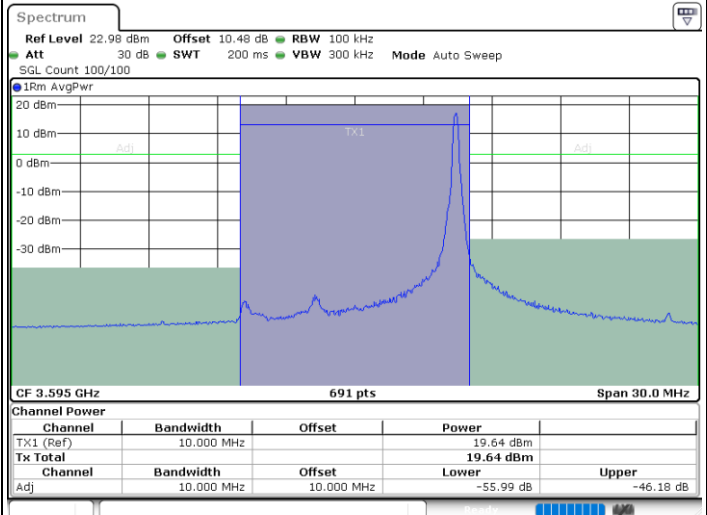
LTE Band 42 / 10MHz

16QAM

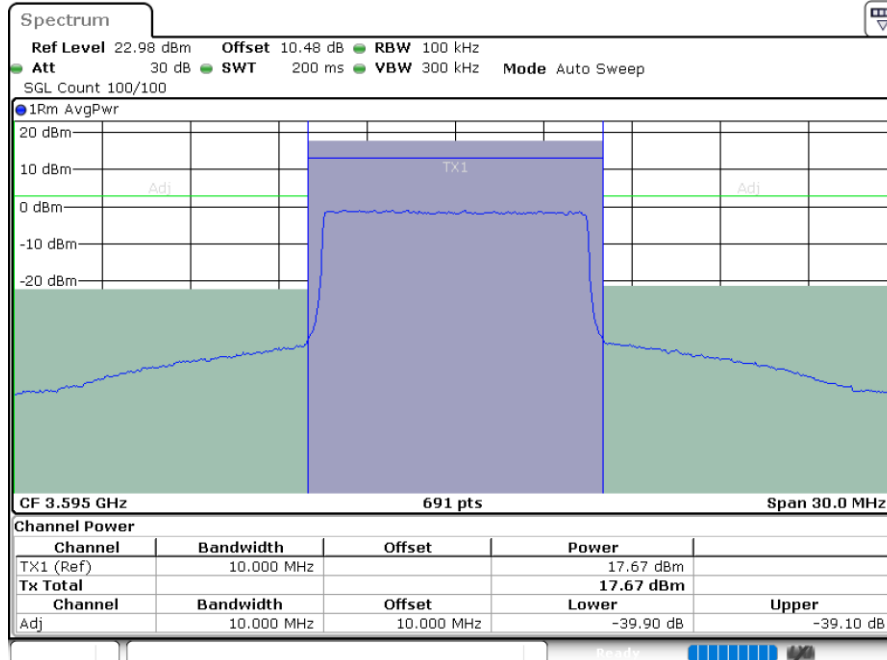
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB

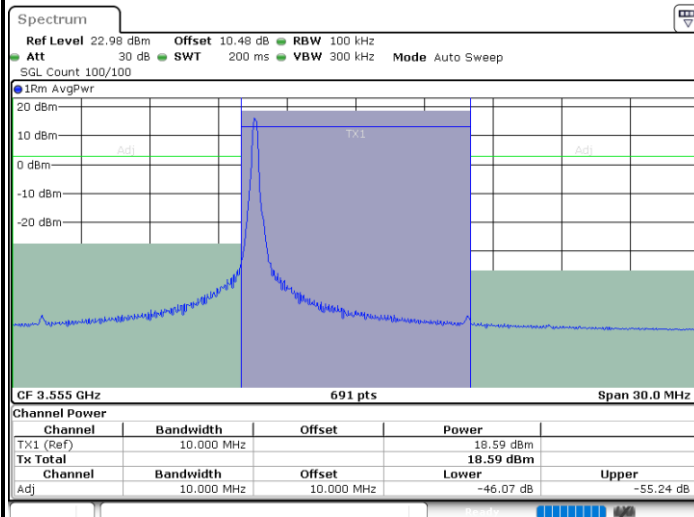




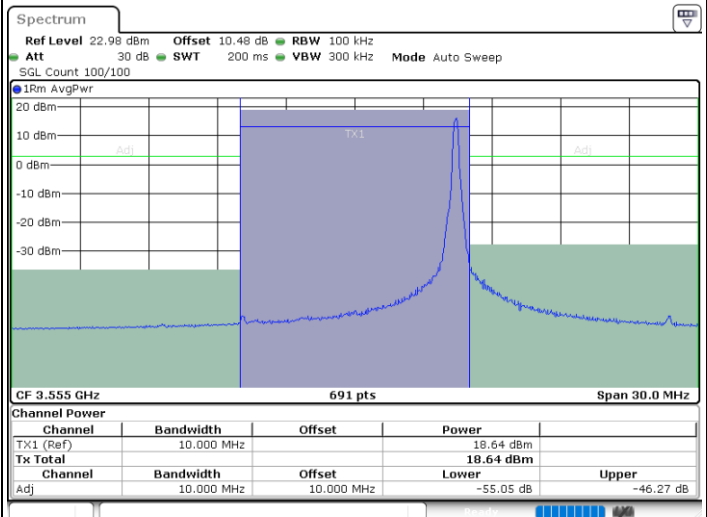
LTE Band 42 / 10MHz

64QAM

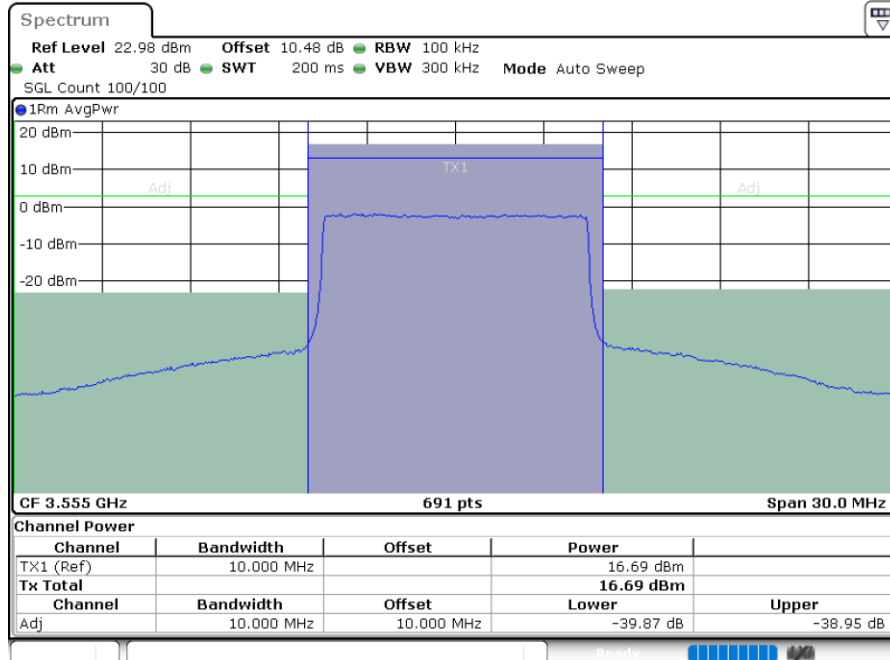
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullIRB

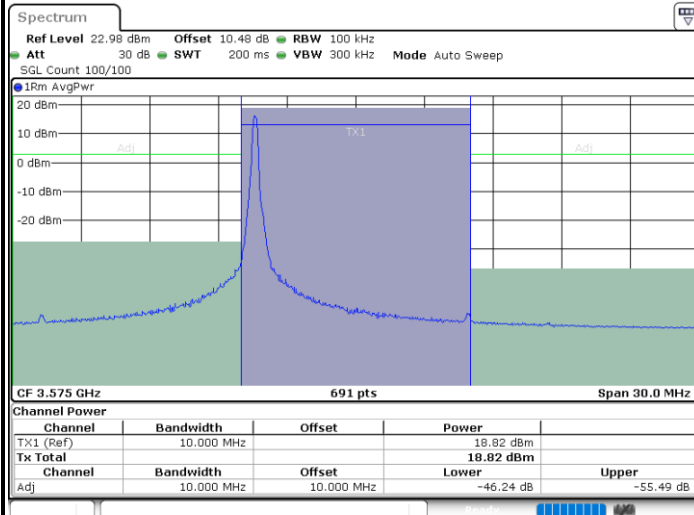




LTE Band 42 / 10MHz

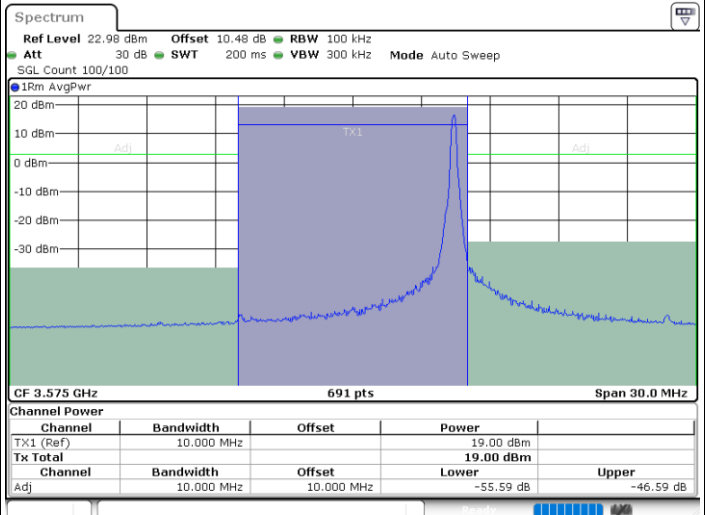
64QAM

Middle Channel / 1RB0



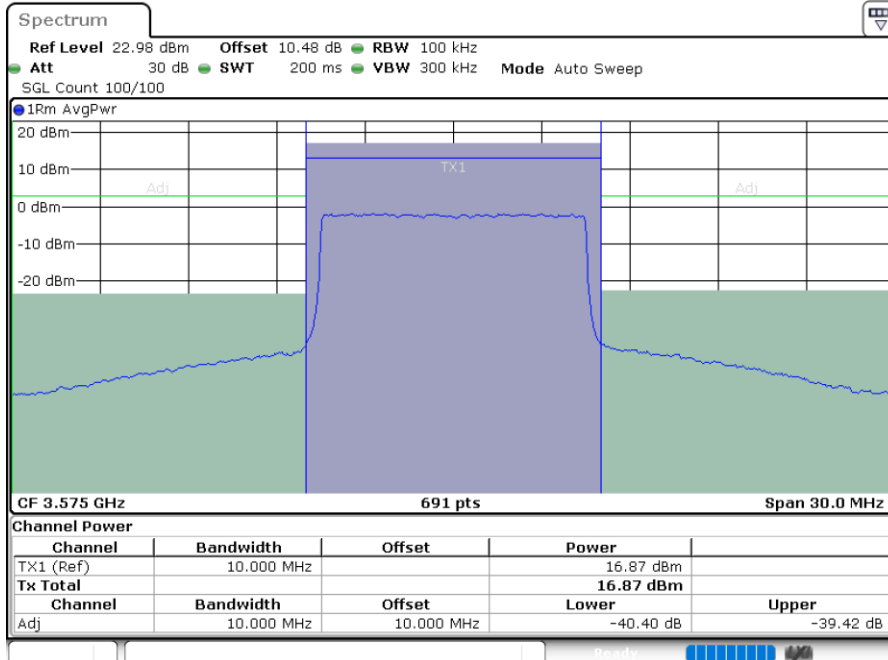
Date: 18.DEC.2022 19:53:31

Middle Channel / 1RBmax



Date: 18.DEC.2022 19:56:05

Middle Channel / FullRB



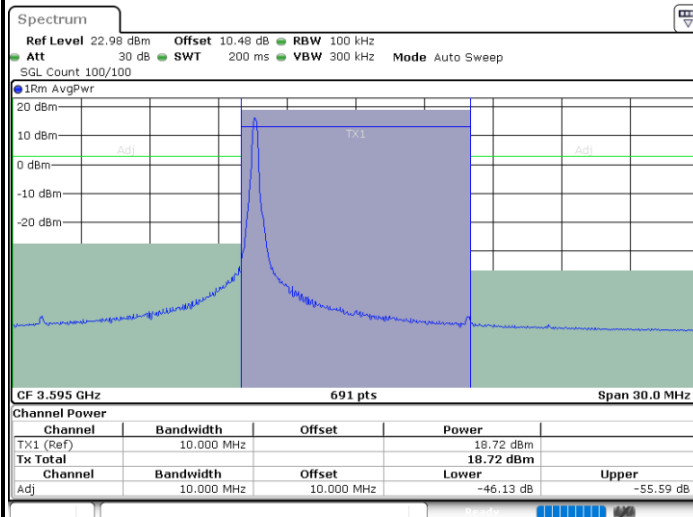
Date: 18.DEC.2022 19:58:40



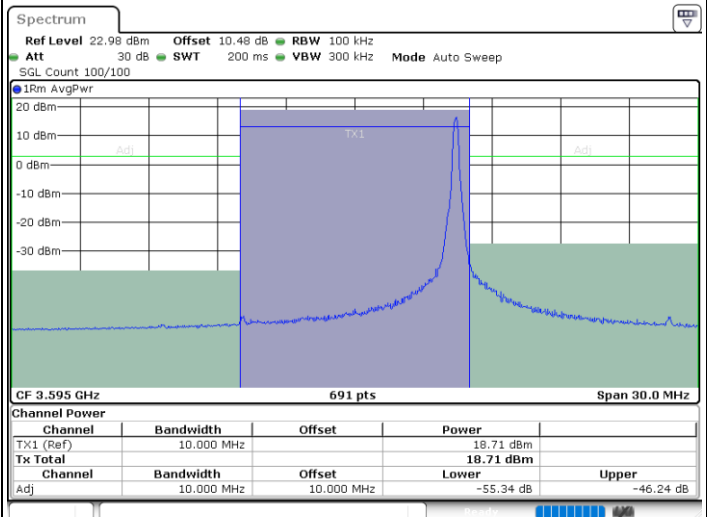
LTE Band 42 / 10MHz

64QAM

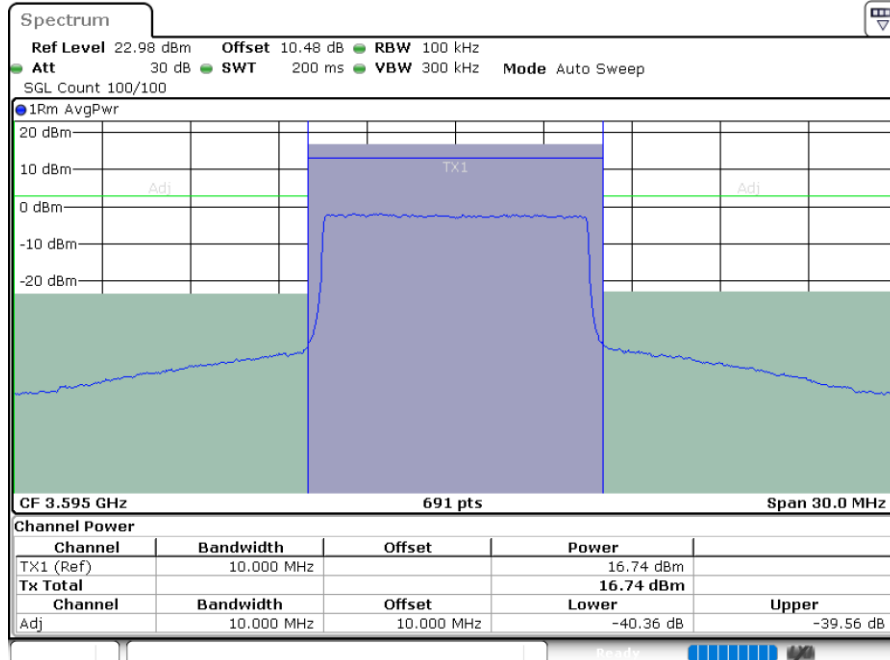
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB



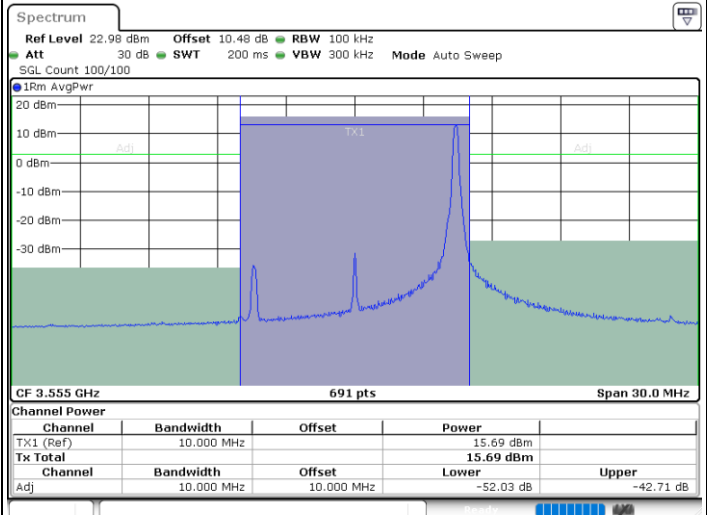
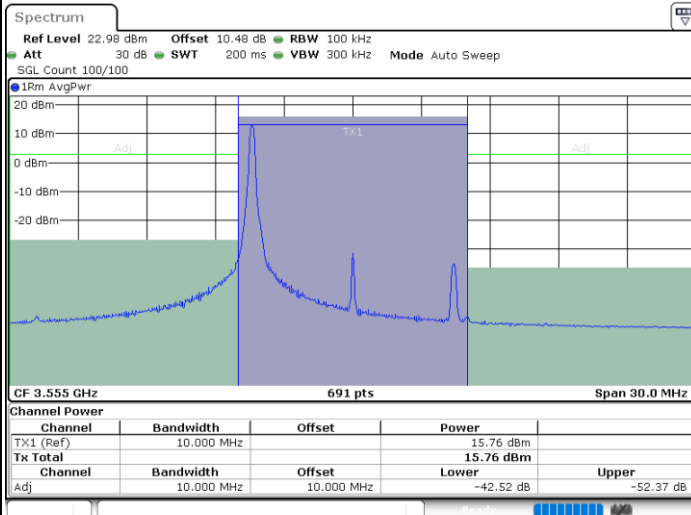


LTE Band 42 / 10MHz

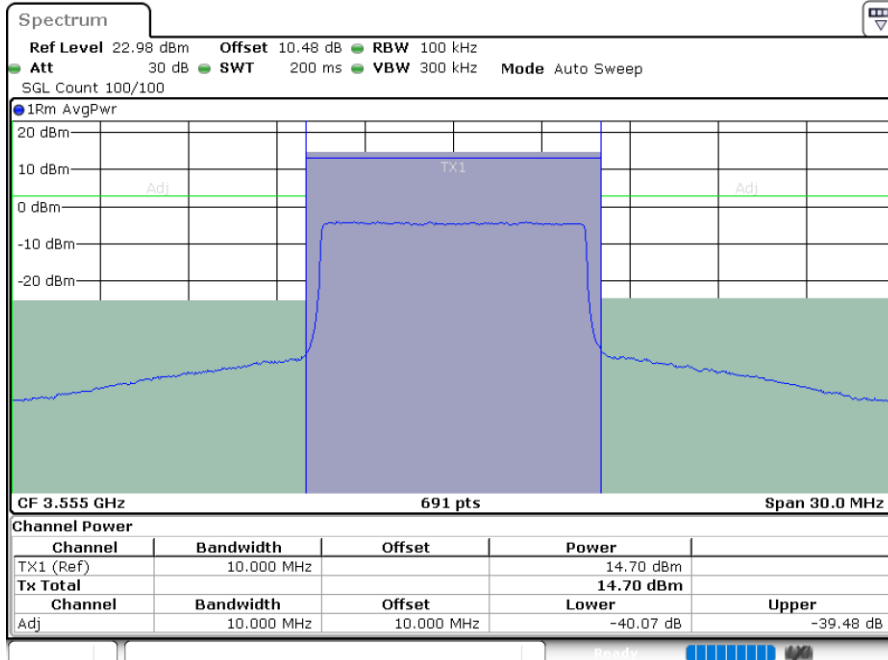
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



Lowest Channel / FullIRB



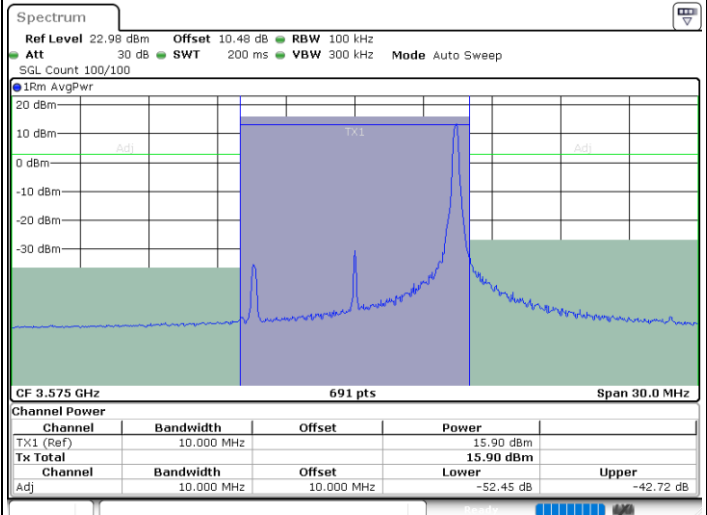
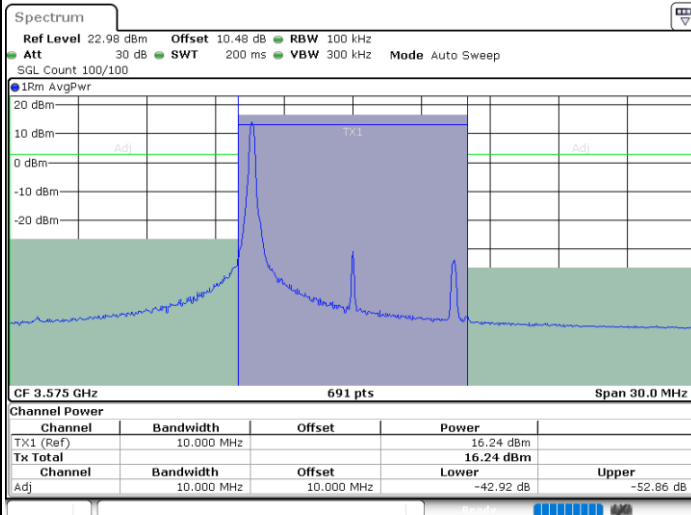


LTE Band 42 / 10MHz

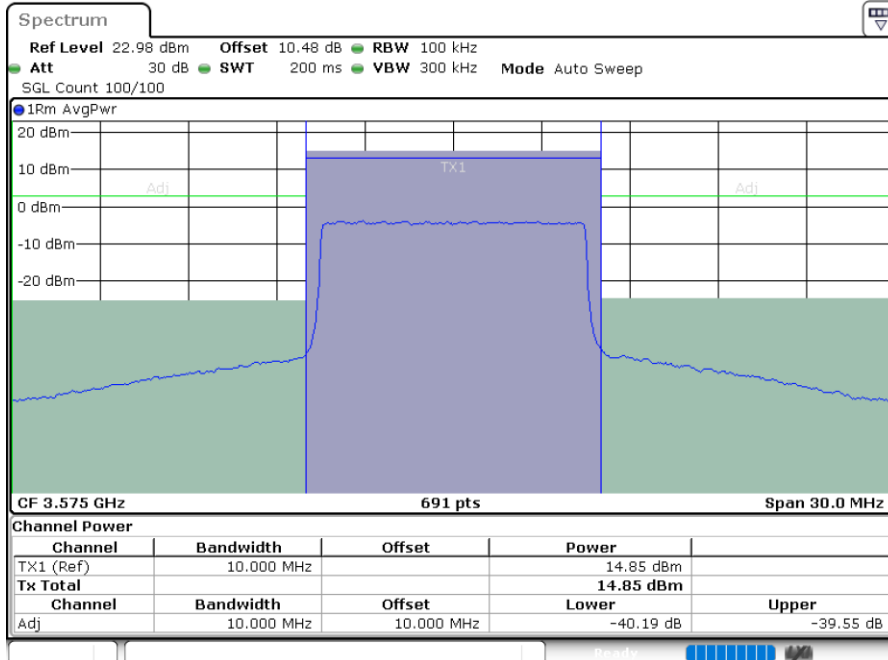
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



Middle Channel / FullRB



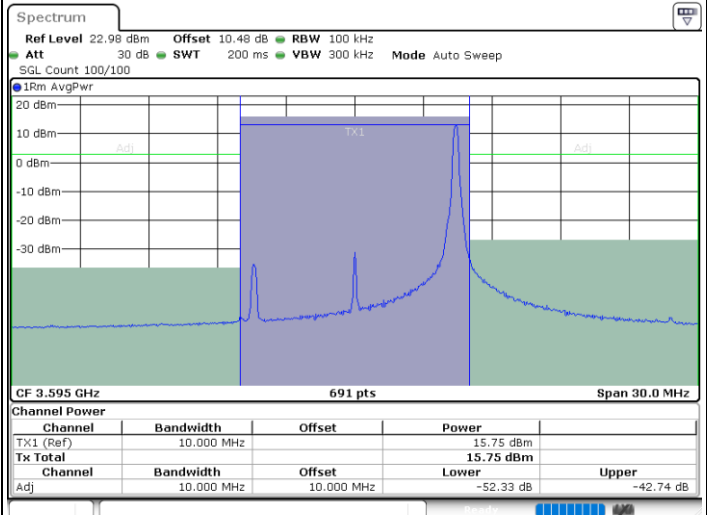
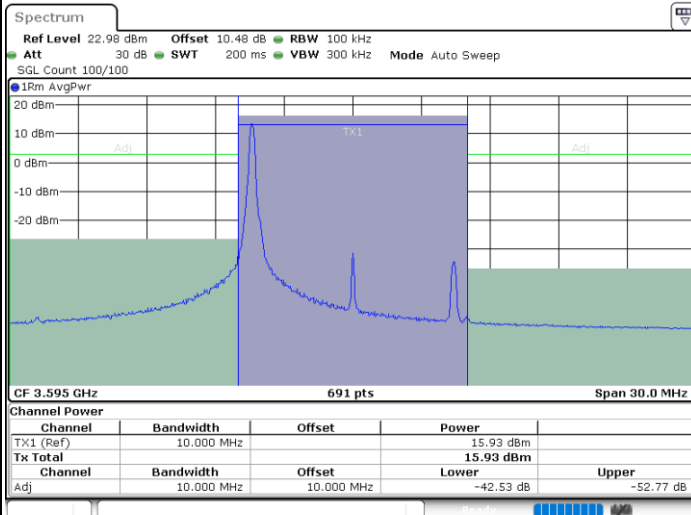


LTE Band 42 / 10MHz

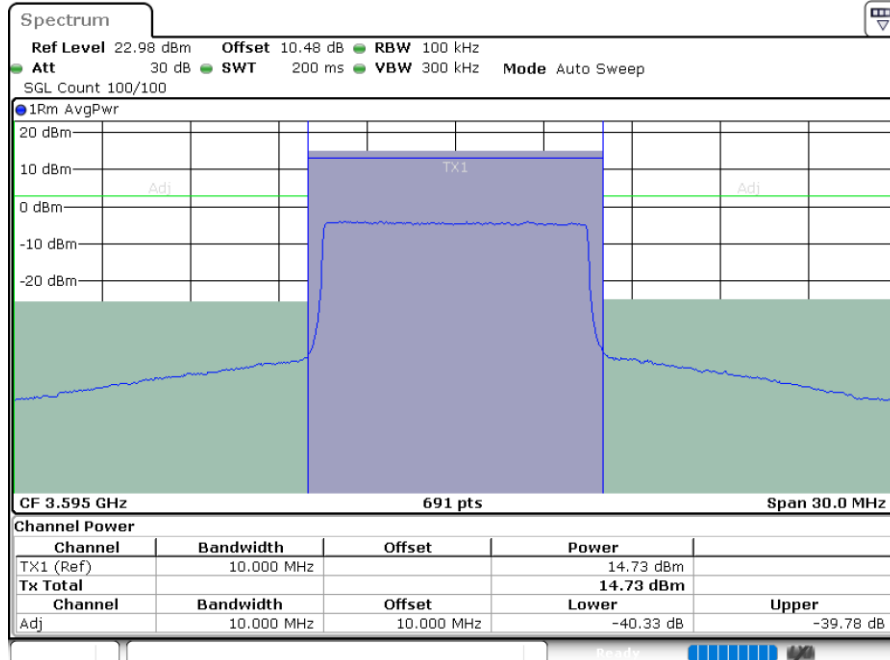
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



Highest Channel / FullRB

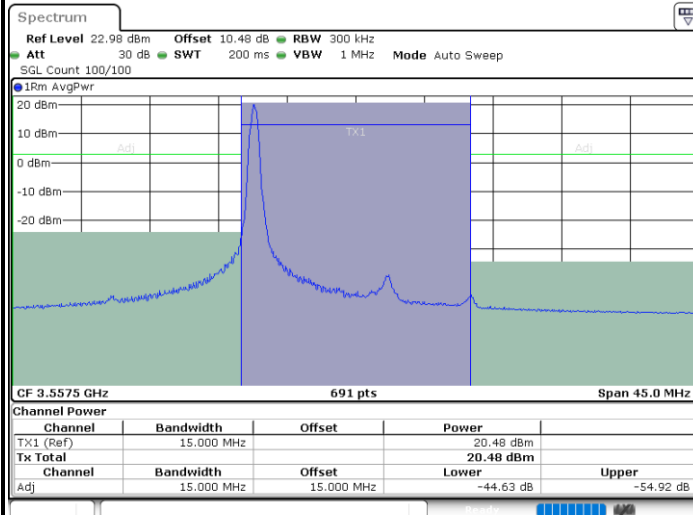




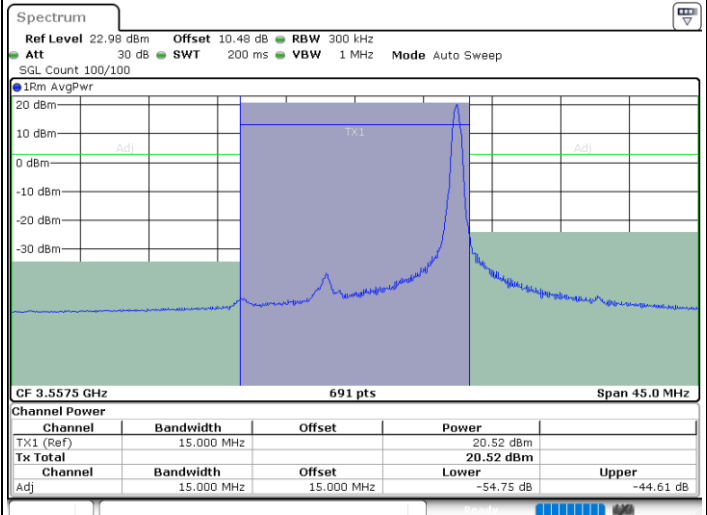
LTE Band 42 / 15MHz

QPSK

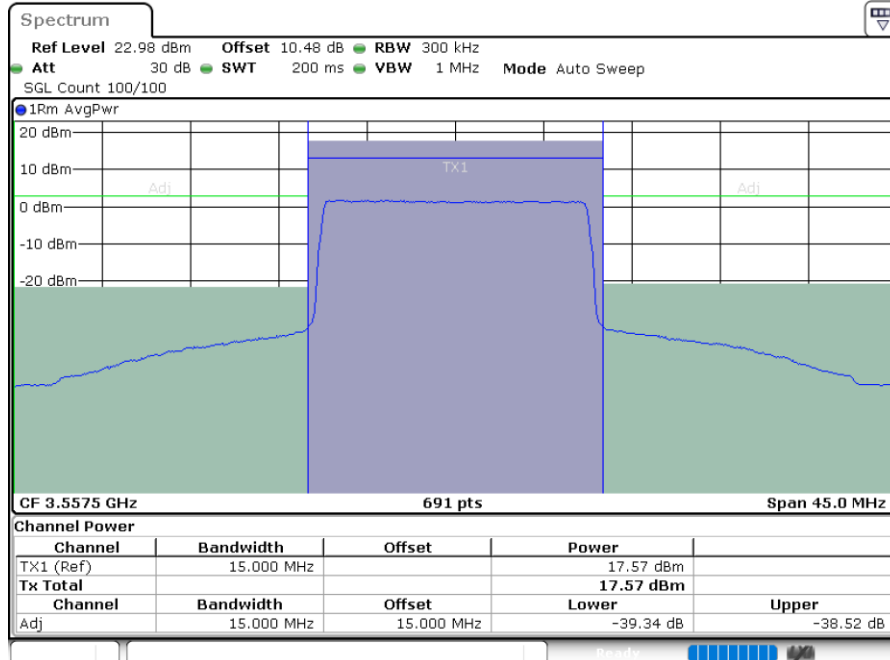
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB

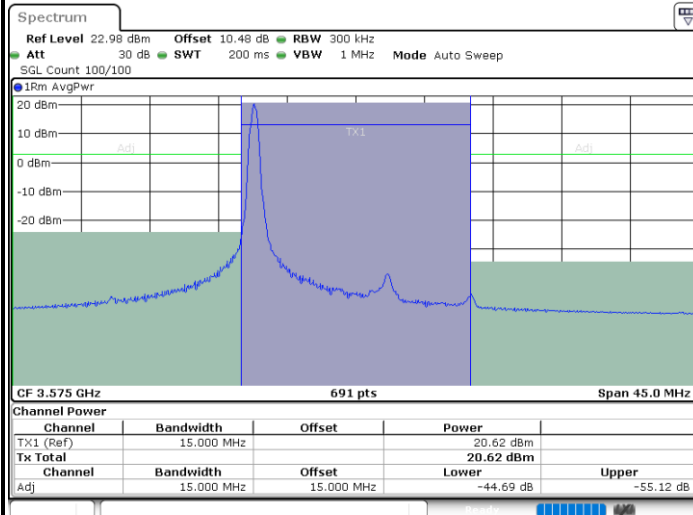




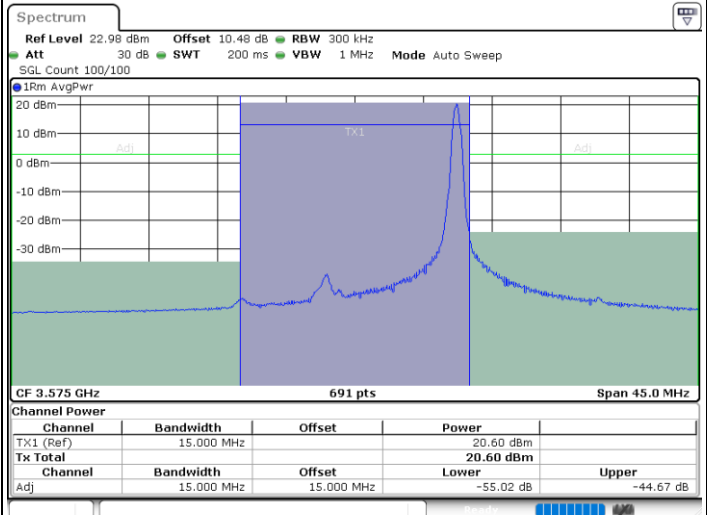
LTE Band 42 / 15MHz

QPSK

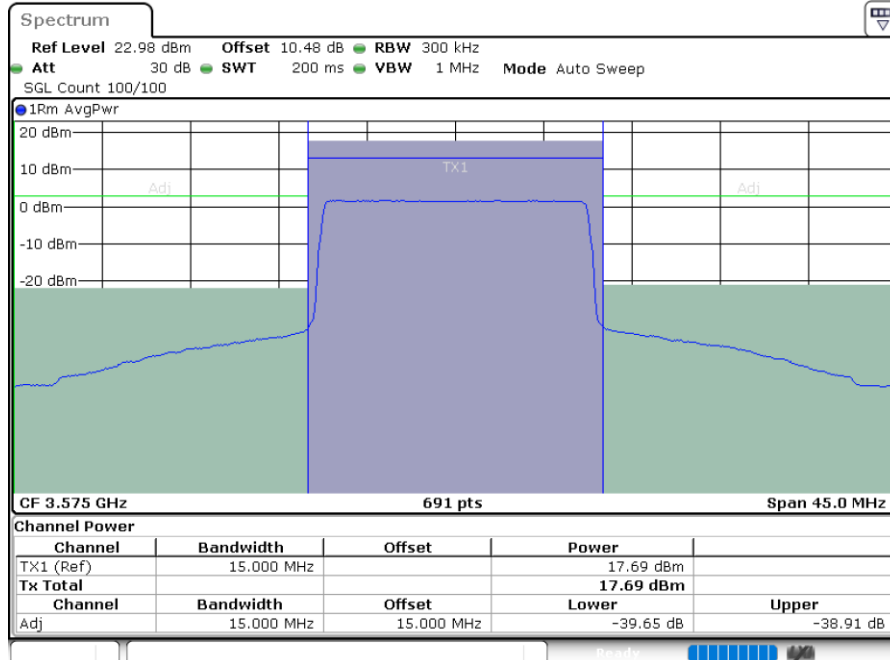
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB

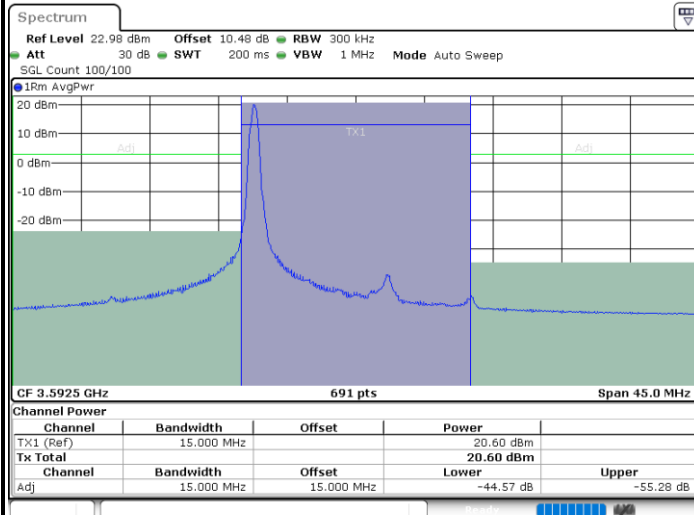




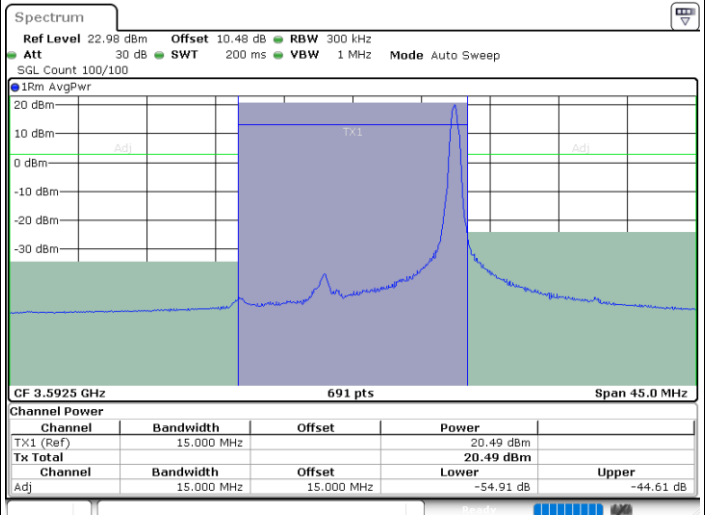
LTE Band 42 / 15MHz

QPSK

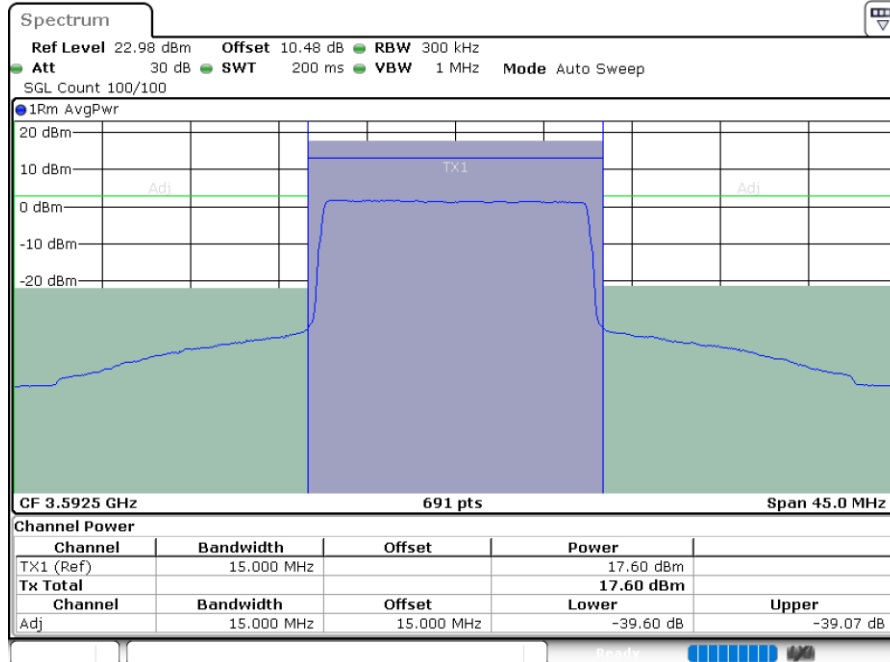
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB



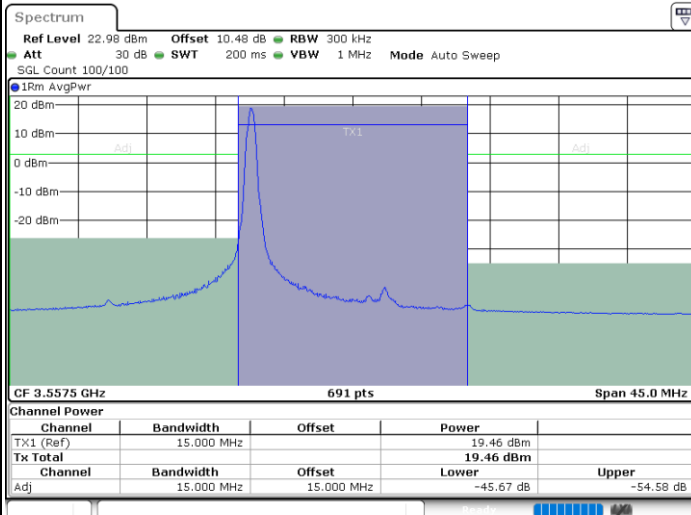


LTE Band 42 / 15MHz

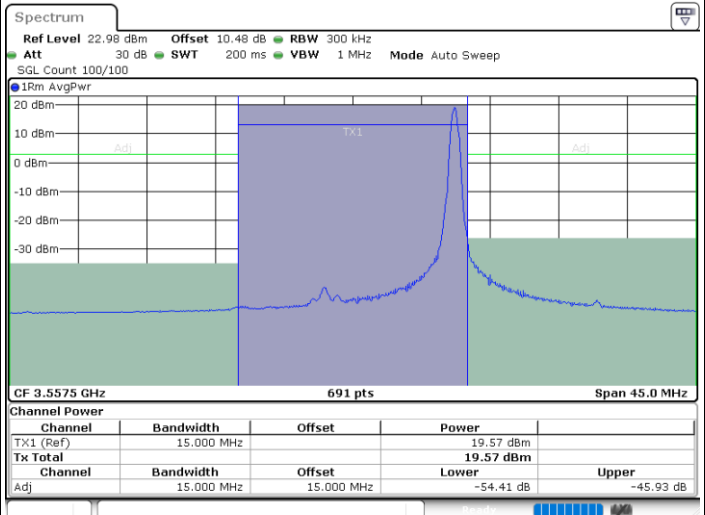
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

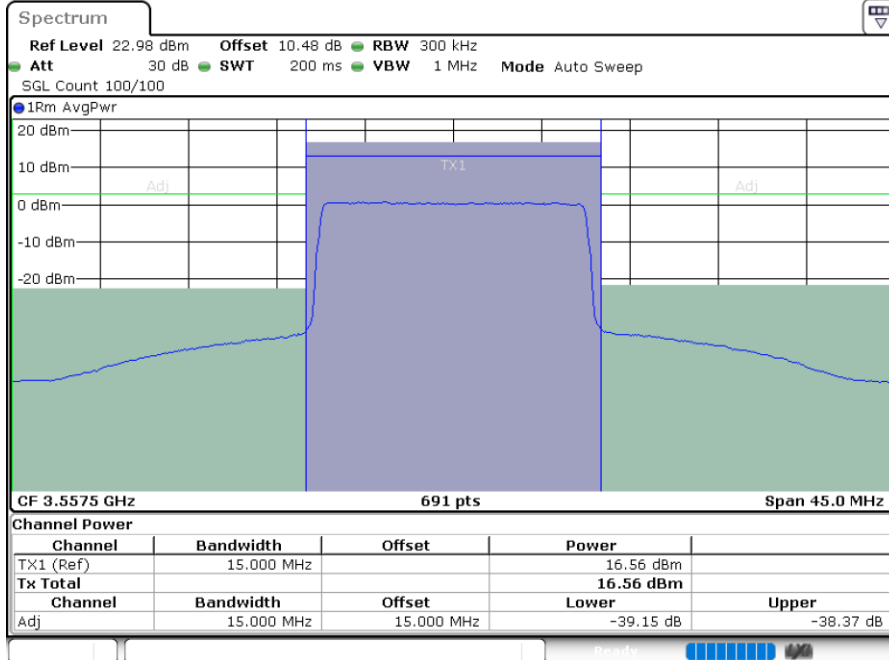


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Date: 18.DEC.2022 20:11:56

Lowest Channel / FullRB



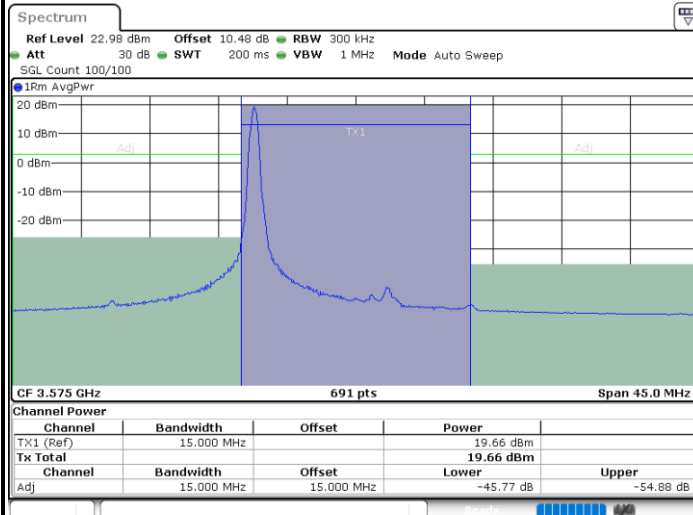
Date: 18.DEC.2022 20:14:27



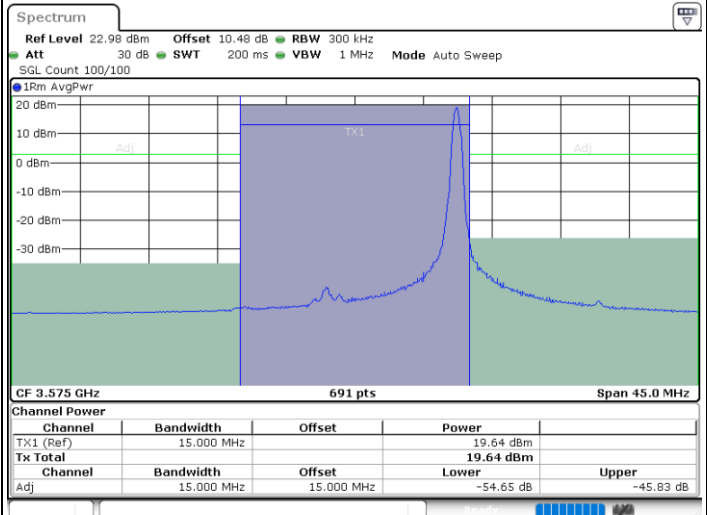
LTE Band 42 / 15MHz

16QAM

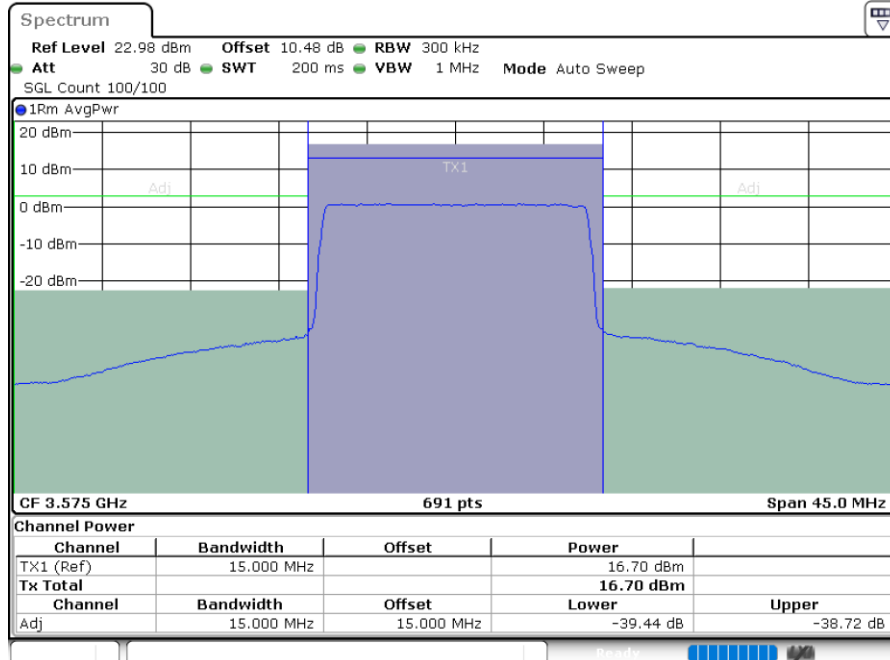
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB

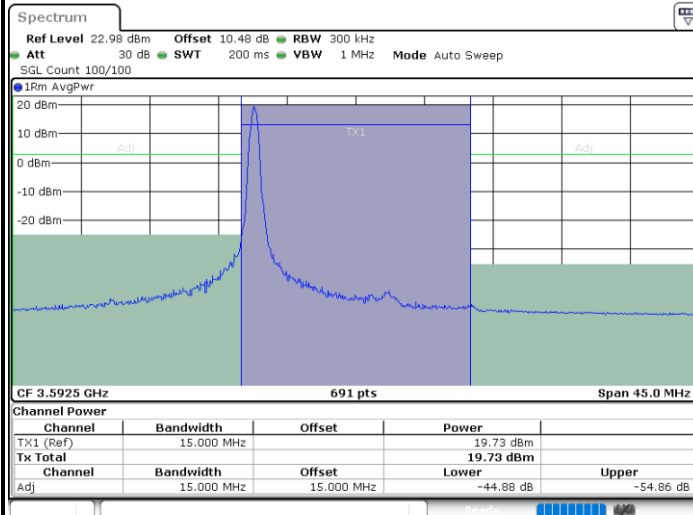




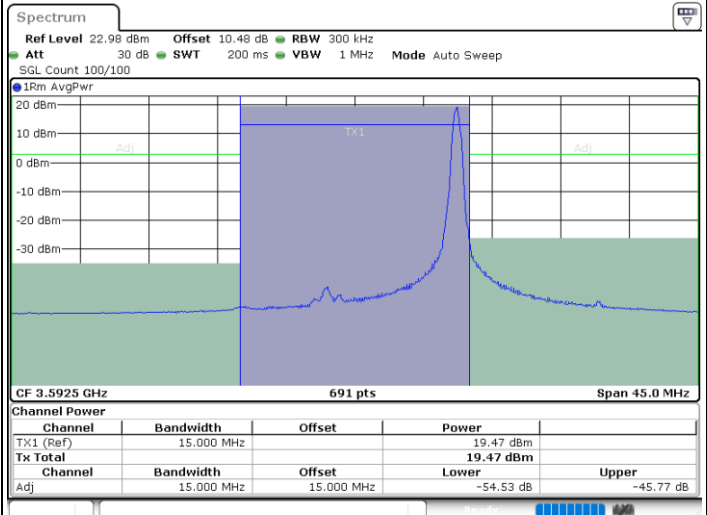
LTE Band 42 / 15MHz

16QAM

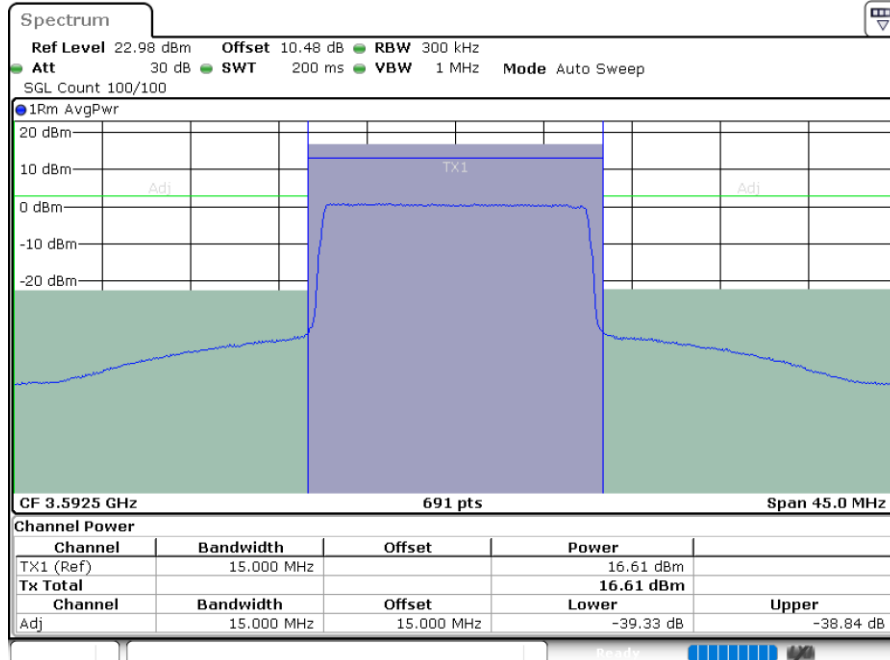
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB



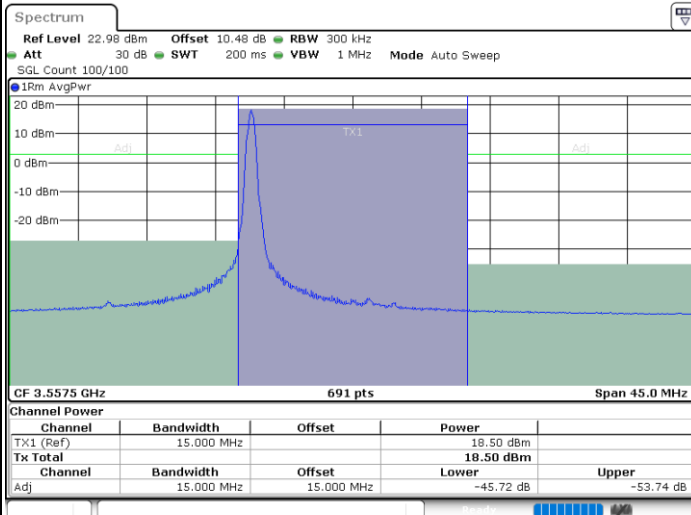


LTE Band 42 / 15MHz

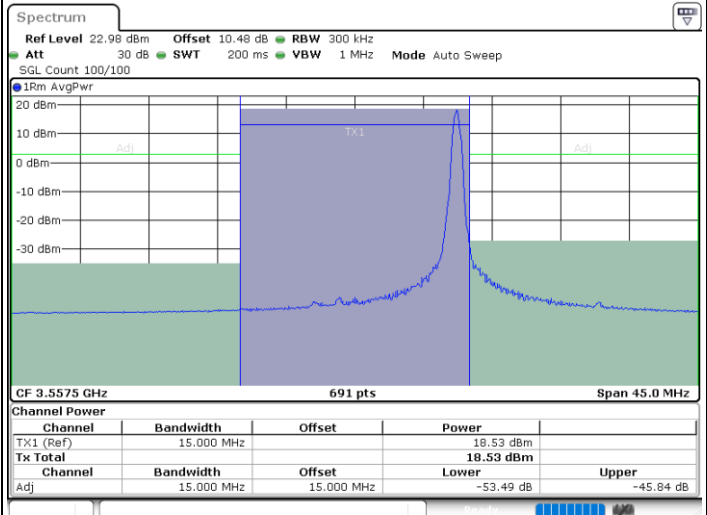
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

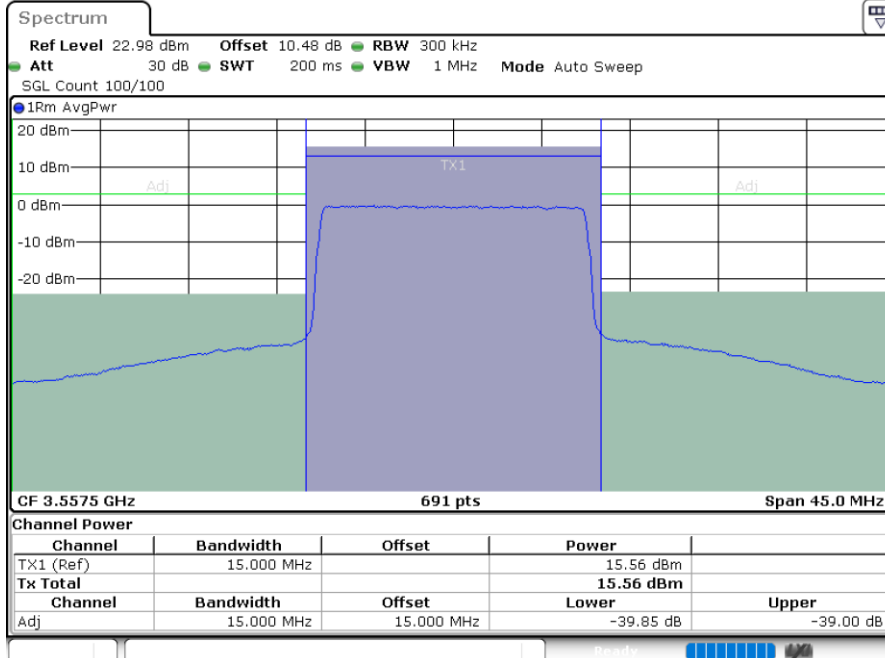


Date: 18.DEC.2022 20:10:02



Date: 18.DEC.2022 20:12:33

Lowest Channel / FullRB



Date: 18.DEC.2022 20:15:04