FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	Redmi
MODEL NAME	:	21091116UG
FCC ID	:	2AFZZ16UG
STANDARD	:	47 CFR Part 2, 27(M)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Sep. 24, 2021 ~ Oct. 09, 2021

We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International (Kunshan) Inc.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager

ACCREDITED Cert #5145.01

Sporton International (ShenZhen) Inc.

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People's Republic of China

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

APPENDIX C. TEST SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG190306C	Rev. 01	Initial issue of report	Oct. 19, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Report Only	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 38) (Band 41)	EIRP < 2Watt	PASS	-
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Report Only	PASS	-
3.7	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log$_{10}$(P[Watts])	PASS	Under limit 33.13 dB at 10340.00 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

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Redmi
Model Name	21091116UG
FCC ID	2AFZZ16UG
IMEI Code	Conducted: 861239050029141/861239050029158 for LTE Band 7/7C 861239050041302/861239050041310 for LTE Band 38/38C/41 Radiation: 861239050030347/861239050030354
HW Version	P2
SW Version	MIUI 12.5
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Rx Frequency	LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Bandwidth	LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	**<Ant 0>** LTE Band 7 : 21.74 dBm LTE Band 38 : 21.99 dBm LTE Band 41 : 22.59 dBm LTE Band 7_CA : 20.73 dBm LTE Band 38_CA : 21.53 dBm **<Ant 1>** LTE Band 7 : 24.24 dBm

	LTE Band 38 : 24.77 dBm LTE Band 41 : 25.24 dBm LTE Band 7_CA : 22.59 dBm LTE Band 38_CA : 23.42 dBm **<Ant 3>** LTE Band 7 : 23.72 dBm LTE Band 38 : 23.82 dBm LTE Band 41 : 24.55 dBm LTE Band 7_CA : 22.24 dBm LTE Band 38_CA : 22.75 dBm **<Ant 5>** LTE Band 7 : 21.79 dBm LTE Band 38 : 22.05 dBm LTE Band 41 : 22.61 dBm LTE Band 7_CA : 20.76 dBm LTE Band 38_CA : 21.51 dBm
Antenna Gain	**<Ant 0>** LTE Band 7 : -5.14 dBi LTE Band 38 : -5.14 dBi LTE Band 41 : -5.14 dBi **<Ant 1>** LTE Band 7 : -1.90 dBi LTE Band 38 : -1.90 dBi LTE Band 41 : -1.90 dBi **<Ant 3>** LTE Band 7 : -0.25 dBi LTE Band 38 : -0.25 dBi LTE Band 41 : -0.25 dBi **<Ant 5>** LTE Band 7 : -1.90 dBi LTE Band 38 : -1.90 dBi LTE Band 41 : -1.90 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM (Downlink only)

Remark: The ERP/EIRP is calculated from Output power and antenna gain, so the maximum ERP/EIRP is shown in the report, LTE Band 7/7C/38/38C/41 for Antenna 3.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum EIRP and Emission Designator

LTE Band 7		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.2153	4M49G7D	0.1824	4M50W7D
10	2505.0 ~ 2565.0	0.2138	9M05G7D	0.1828	9M05W7D
15	2507.5 ~ 2562.5	0.2168	13M5G7D	0.1807	13M5W7D
20	2510.0 ~ 2560.0	0.2223	17M9G7D	0.1832	17M9W7D
LTE Band 38		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2572.5 ~ 2617.5	0.2495	4M52G7D	0.2042	4M52W7D
10	2575.0 ~ 2615.0	0.2512	9M05G7D	0.2061	9M05W7D
15	2577.5 ~ 2612.5	0.2495	13M6G7D	0.2046	13M5W7D
20	2580.0 ~ 2610.0	0.2692	18M0G7D	0.2249	17M9W7D
LTE Band 41		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2498.5 ~ 2687.5	0.2495	4M52G7D	0.2042	4M52W7D
10	2501.0 ~ 2685.0	0.2512	9M05G7D	0.2061	9M05W7D
15	2503.5 ~ 2682.5	0.2495	13M6G7D	0.2046	13M5W7D
20	2506.0 ~ 2680.0	0.2692	18M0G7D	0.2249	17M9W7D

LTE Band 7 CA	QPSK		16QAM/64QAM	
BW (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10MHz+20MHz	0.1567	28M2G7D	0.1321	28M1W7D
15MHz+15MHz	0.1514	28M7G7D	0.1346	28M7W7D
15MHz+20MHz	0.1560	32M9G7D	0.1309	32M9W7D
15MHz+10MHz	0.1563	23M6G7D	0.1343	23M5W7D
20MHz+10MHz	0.1563	28M2G7D	0.1343	28M1W7D
20MHz+15MHz	0.1542	32M8G7D	0.1324	32M9W7D
20MHz+20MHz	0.1581	37M5G7D	0.1384	37M6W7D

LTE Band 38 CA	QPSK		16QAM/64QAM	
BW (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
15MHz+15MHz	0.1778	28M7G7D	0.1479	28M7W7D
20MHz+20MHz	0.1762	37M7G7D	0.1403	37M7W7D

Note:

1. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.
2. All modulations (QPSK/16QAM/64QAM) have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Location

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

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

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

Test Firm	Sporton International (Kunshan) Inc.		
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	CN1257	314309

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

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

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

- 47 CFR Part 2, 27(M)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- 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

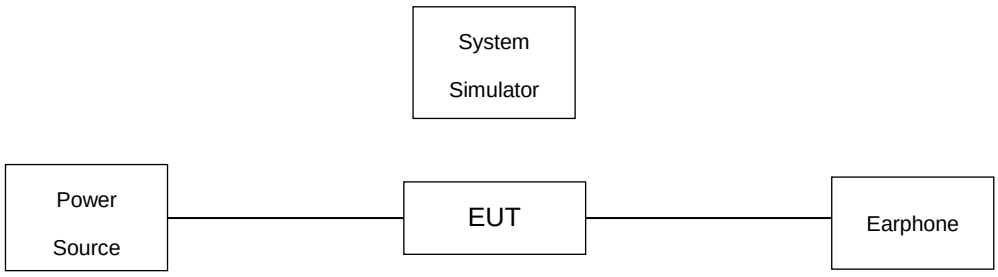
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	7	-	-				v	v	v	v	v		v	v	v	v
	41	-	-				v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	7	-	-	v	v	v	v	v	v	v			v	v	v	v
	41	-	-	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	7	-	-		v			v					v		v	
	41	-	-		v			v					v		v	
E.R.P / E.I.R.P	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	7	Worst Case													v	
	41	Worst Case													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. 4. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.															

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	1	Half	Full	L	M	H
Max. Output Power	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v	v	v	v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v			v	v	v	v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v			v	v	v	v
Conducted Band Edge	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v		v	v		v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v		v	v		v
Conducted Spurious Emission	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v			v	v	v
E.I.R.P.	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v			v	v	v
Radiated Spurious Emission	7C_CA	Worst Case																	v	
	38C_CA	Worst Case																	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



This example is connection diagram of EUT test configurations.

For detail, please refer to test mode configuration and setup photographs for each test item.

2.3 Support Unit used in test configuration and system

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.0 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 5.0 + 10 = 15.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5

LTE Band 7C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	20850	21001	21152
		Frequency	2510.0	2525.1	2540.2
	SCC	Channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560.0
20 + 15	PCC	Channel	20850	21026	21201
		Frequency	2510.0	2527.6	2545.1
	SCC	Channel	21021	21197	21372
		Frequency	2527.1	2544.7	2562.2
15 + 20	PCC	Channel	20828	21003	21179
		Frequency	2507.8	2525.3	2542.9
	SCC	Channel	20999	21174	21350
		Frequency	2524.9	2542.4	2560.0
20 + 10	PCC	Channel	20850	21051	21251
		Frequency	2510.0	2530.1	2550.1
	SCC	Channel	20994	21195	21395
		Frequency	2524.4	2544.5	2564.5
10 + 20	PCC	Channel	20805	21006	21206
		Frequency	2505.5	2525.6	2545.6
	SCC	Channel	20949	21150	21350
		Frequency	2519.9	2540.0	2560.0
15 + 15	PCC	Channel	20825	21025	21225
		Frequency	2507.5	2527.5	2547.5
	SCC	Channel	20975	21175	21375
		Frequency	2522.5	2542.5	2562.5
15 + 10	PCC	Channel	20825	21051	21277
		Frequency	2507.5	2530.1	2552.7
	SCC	Channel	20945	21171	21397
		Frequency	2519.5	2542.1	2564.7

LTE Band 38C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	37850	37901	37952
		Frequency	2580.0	2585.1	2590.2
	SCC	Channel	38048	38099	38150
		Frequency	2599.8	2604.9	2610.0
15+ 15	PCC	Channel	37825	37925	38025
		Frequency	2577.5	2587.5	2597.5
	SCC	Channel	37975	38075	38175
		Frequency	2592.5	2602.5	2612.5

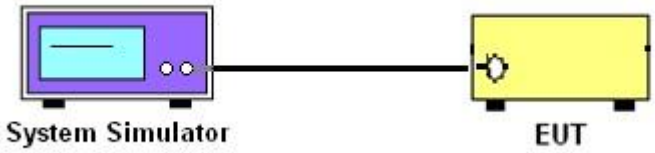
3 Conducted Test Items

3.1 Measuring Instruments

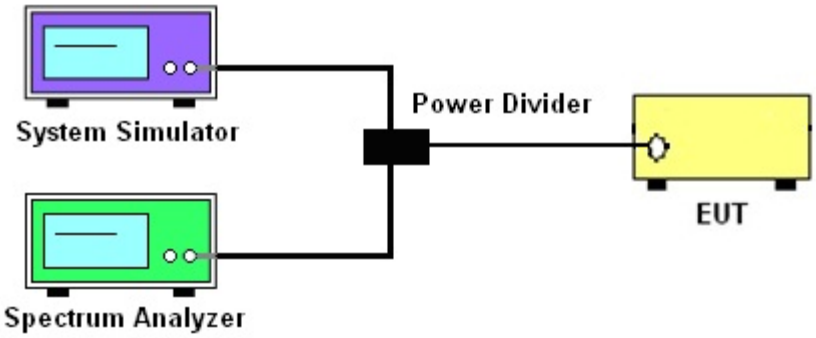
See list of measuring instruments of this test report.

3.2 Test Setup

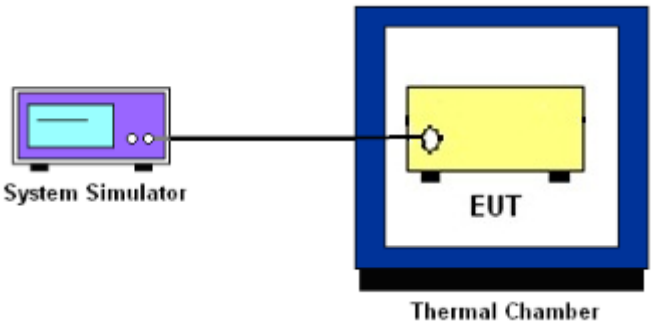
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP 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.

The EIRP of mobile transmitters must not exceed 2 Watts for Band 7 and Band 38 and Band 41.

According to KDB 412172 D01 Power Approach,

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

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 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.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. 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.
5. Set the detection mode to peak, and the trace mode to max hold.
6. 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)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. 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.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

   Example:

   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7,38,41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
11. For Band 7, 38, 41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

3.9 Frequency Stability

3.9.1 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 ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. 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.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

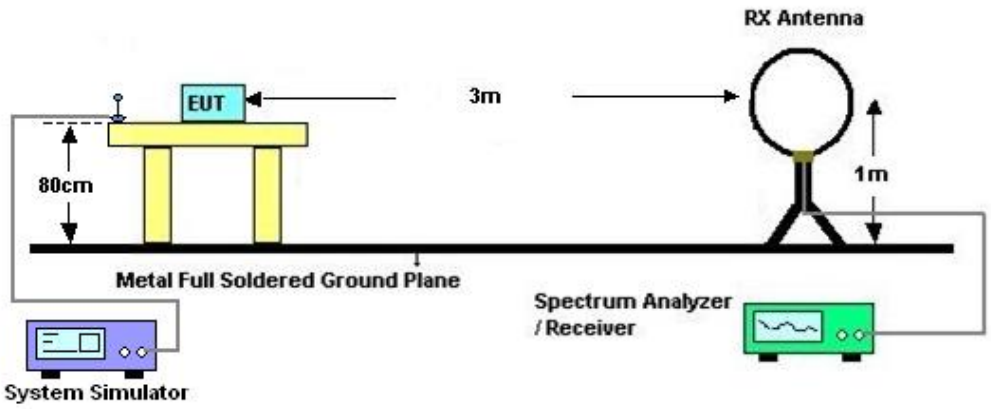
4 Radiated Test Items

4.1 Measuring Instruments

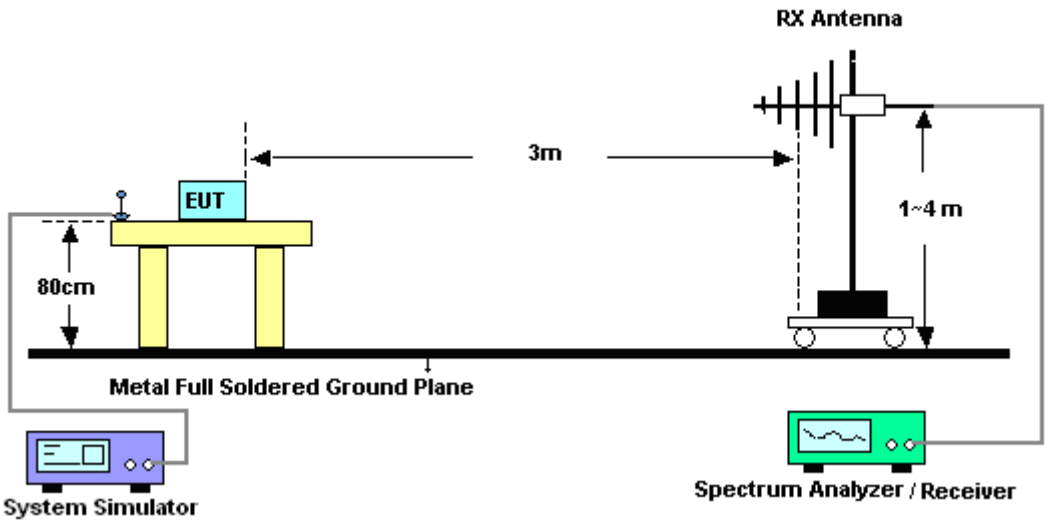
See list of measuring instruments of this test report.

4.2 Test Setup

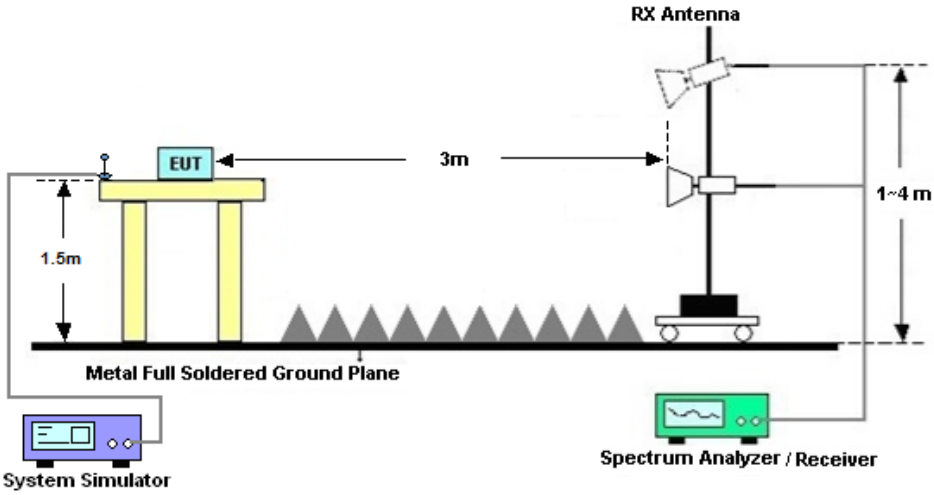
4.2.1 For radiated test below 30MHz



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

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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 43 + 10 log (P) dB.

For Band 7, 38, 41

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 55 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. 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.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For Band 7, 38, 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Sep. 24, 2021~ Sep. 28, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 15, 2020	Sep. 24, 2021~ Sep. 28, 2021	Oct. 14, 2021	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 26, 2020	Sep. 24, 2021~ Sep. 28, 2021	Dec. 25, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Sep. 24, 2021~ Sep. 28, 2021	Jul. 13, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Oct. 09, 2021	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 01, 2020	Oct. 09, 2021	Oct. 31, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Oct. 09, 2021	May 29, 2022	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 01, 2020	Oct. 09, 2021	Oct. 31, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jan. 06, 2021	Oct. 09, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Oct. 09, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Oct. 09, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Oct. 09, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 14, 2020	Oct. 09, 2021	Oct. 13, 2021	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 09, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 09, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 09, 2021	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.3dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

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

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 7:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	23.42	23.50	23.57
20	QPSK	1	49	23.63	23.61	23.72
20	QPSK	1	99	23.32	23.37	23.55
20	QPSK	50	0	22.32	22.51	22.55
20	QPSK	50	24	22.40	22.57	22.66
20	QPSK	50	50	22.51	22.64	22.50
20	QPSK	100	0	22.37	22.48	22.54
20	16QAM	1	0	22.50	22.52	22.74
20	16QAM	1	49	22.88	22.50	22.69
20	16QAM	1	99	22.81	22.74	22.78
20	16QAM	50	0	21.24	21.50	21.55
20	16QAM	50	24	21.41	21.50	21.53
20	16QAM	50	50	21.37	21.56	21.58
20	16QAM	100	0	21.40	21.50	21.50
20	64QAM	1	0	21.58	21.75	21.57
20	64QAM	1	49	21.64	21.82	21.47
20	64QAM	1	99	21.46	21.60	21.59
20	64QAM	50	0	20.27	20.54	20.58
20	64QAM	50	24	20.33	20.55	20.65
20	64QAM	50	50	20.40	20.57	20.59
20	64QAM	100	0	20.33	20.50	20.52
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	23.40	23.35	23.34
15	QPSK	1	37	23.45	23.50	23.35
15	QPSK	1	74	23.47	23.56	23.61
15	QPSK	36	0	22.30	22.12	22.21
15	QPSK	36	20	22.27	22.31	22.25
15	QPSK	36	39	22.34	22.44	22.40
15	QPSK	75	0	22.19	22.24	22.27
15	16QAM	1	0	22.60	22.55	22.56
15	16QAM	1	37	22.82	22.72	22.68
15	16QAM	1	74	22.75	22.70	22.70
15	16QAM	36	0	21.12	21.11	21.18
15	16QAM	36	20	21.28	21.27	21.29
15	16QAM	36	39	21.33	21.33	21.18
15	16QAM	75	0	21.23	21.34	21.32
15	64QAM	1	0	21.39	21.46	21.54
15	64QAM	1	37	21.55	21.57	21.49
15	64QAM	1	74	21.42	21.39	21.28

15	64QAM	36	0	20.10	20.26	20.17
15	64QAM	36	20	20.16	20.29	20.20
15	64QAM	36	39	20.24	20.38	20.22
15	64QAM	75	0	20.27	20.18	20.15
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	23.36	23.36	23.39
10	QPSK	1	25	23.53	23.54	23.50
10	QPSK	1	49	23.47	23.46	23.55
10	QPSK	25	0	22.12	22.23	22.24
10	QPSK	25	12	22.27	22.27	22.31
10	QPSK	25	25	22.46	22.46	22.39
10	QPSK	50	0	22.18	22.26	22.33
10	16QAM	1	0	22.70	22.59	22.58
10	16QAM	1	25	22.71	22.77	22.87
10	16QAM	1	49	22.63	22.61	22.77
10	16QAM	25	0	21.07	21.12	21.20
10	16QAM	25	12	21.35	21.26	21.33
10	16QAM	25	25	21.27	21.27	21.18
10	16QAM	50	0	21.30	21.39	21.21
10	64QAM	1	0	21.54	21.57	21.54
10	64QAM	1	25	21.54	21.49	21.61
10	64QAM	1	49	21.42	21.39	21.39
10	64QAM	25	0	20.08	20.18	20.17
10	64QAM	25	12	20.29	20.28	20.27
10	64QAM	25	25	20.24	20.37	20.27
10	64QAM	50	0	20.27	20.13	20.32
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	23.32	23.39	23.27
5	QPSK	1	12	23.53	23.40	23.51
5	QPSK	1	24	23.52	23.51	23.58
5	QPSK	12	0	22.13	22.30	22.28
5	QPSK	12	7	22.27	22.31	22.36
5	QPSK	12	13	22.45	22.36	22.39
5	QPSK	25	0	22.17	22.29	22.20
5	16QAM	1	0	22.72	22.57	22.70
5	16QAM	1	12	22.86	22.73	22.83
5	16QAM	1	24	22.78	22.71	22.79
5	16QAM	12	0	21.19	21.06	21.16
5	16QAM	12	7	21.29	21.39	21.32
5	16QAM	12	13	21.34	21.35	21.23
5	16QAM	25	0	21.27	21.33	21.25
5	64QAM	1	0	21.44	21.55	21.49
5	64QAM	1	12	21.51	21.59	21.49
5	64QAM	1	24	21.41	21.32	21.41
5	64QAM	12	0	20.15	20.25	20.16
5	64QAM	12	7	20.22	20.23	20.25
5	64QAM	12	13	20.28	20.34	20.28
5	64QAM	25	0	20.16	20.26	20.29

LTE Band 38:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	23.75	23.78	23.82
20	QPSK	1	49	23.54	23.65	23.62
20	QPSK	1	99	23.67	23.63	23.71
20	QPSK	50	0	22.63	22.71	22.68
20	QPSK	50	24	22.76	22.75	22.79
20	QPSK	50	50	22.74	22.72	22.73
20	QPSK	100	0	22.68	22.68	22.72
20	16QAM	1	0	22.77	22.86	22.86
20	16QAM	1	49	23.05	23.04	23.02
20	16QAM	1	99	22.98	22.93	22.93
20	16QAM	50	0	22.02	22.09	22.09
20	16QAM	50	24	22.12	22.12	22.14
20	16QAM	50	50	22.13	22.11	22.11
20	16QAM	100	0	22.04	22.04	22.03
20	64QAM	1	0	21.58	21.72	21.71
20	64QAM	1	49	21.89	21.87	21.83
20	64QAM	1	99	21.84	21.76	21.73
20	64QAM	50	0	21.02	21.05	21.06
20	64QAM	50	24	21.17	21.10	21.11
20	64QAM	50	50	21.13	21.05	21.08
20	64QAM	100	0	21.05	21.07	21.03
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	23.77	23.77	23.56
15	QPSK	1	37	23.65	23.77	23.79
15	QPSK	1	74	23.80	23.77	23.80
15	QPSK	36	0	22.84	22.98	22.87
15	QPSK	36	20	22.95	22.99	22.85
15	QPSK	36	39	22.83	22.87	22.95
15	QPSK	75	0	22.87	22.89	22.83
15	16QAM	1	0	22.66	22.85	22.78
15	16QAM	1	37	22.92	22.84	22.94
15	16QAM	1	74	22.92	22.86	22.83
15	16QAM	36	0	22.01	21.97	21.90
15	16QAM	36	20	22.02	22.02	21.94
15	16QAM	36	39	22.07	22.04	21.98
15	16QAM	75	0	22.02	21.95	22.03
15	64QAM	1	0	21.71	21.70	21.62
15	64QAM	1	37	21.78	21.86	21.69
15	64QAM	1	74	21.69	21.61	21.61
15	64QAM	36	0	20.89	20.96	20.88
15	64QAM	36	20	21.05	21.03	21.09
15	64QAM	36	39	20.95	21.01	21.00
15	64QAM	75	0	20.97	20.95	21.04

Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	23.75	23.62	23.61
10	QPSK	1	25	23.70	23.75	23.60
10	QPSK	1	49	23.58	23.57	23.61
10	QPSK	25	0	22.52	22.68	22.68
10	QPSK	25	12	22.65	22.73	22.64
10	QPSK	25	25	22.70	22.72	22.70
10	QPSK	50	0	22.65	22.53	22.61
10	16QAM	1	0	22.51	22.57	22.69
10	16QAM	1	25	22.72	22.66	22.56
10	16QAM	1	49	22.62	22.76	22.77
10	16QAM	25	0	21.65	21.66	21.76
10	16QAM	25	12	21.75	21.62	21.76
10	16QAM	25	25	21.67	21.79	21.72
10	16QAM	50	0	21.71	21.64	21.65
10	64QAM	1	0	21.52	21.52	21.59
10	64QAM	1	25	21.70	21.75	21.70
10	64QAM	1	49	21.60	21.66	21.73
10	64QAM	25	0	20.56	20.61	20.67
10	64QAM	25	12	20.72	20.75	20.63
10	64QAM	25	25	20.61	20.73	20.55
10	64QAM	50	0	20.59	20.66	20.66
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	23.53	23.76	23.62
5	QPSK	1	12	23.75	23.64	23.65
5	QPSK	1	24	23.50	23.62	23.60
5	QPSK	12	0	22.53	22.63	22.52
5	QPSK	12	7	22.74	22.56	22.60
5	QPSK	12	13	22.62	22.66	22.62
5	QPSK	25	0	22.59	22.67	22.65
5	16QAM	1	0	22.53	22.78	22.55
5	16QAM	1	12	22.64	22.72	22.56
5	16QAM	1	24	22.58	22.74	22.57
5	16QAM	12	0	21.76	21.68	21.71
5	16QAM	12	7	21.69	21.78	21.64
5	16QAM	12	13	21.76	21.79	21.80
5	16QAM	25	0	21.58	21.58	21.69
5	64QAM	1	0	21.70	21.70	21.64
5	64QAM	1	12	21.84	21.79	21.68
5	64QAM	1	24	21.65	21.70	21.59
5	64QAM	12	0	20.57	20.68	20.57
5	64QAM	12	7	20.61	20.66	20.66
5	64QAM	12	13	20.59	20.59	20.59
5	64QAM	25	0	20.66	20.65	20.67

LTE Band 41:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	24.06	24.38	24.18
20	QPSK	1	49	24.38	24.55	24.41
20	QPSK	1	99	24.18	24.45	24.31
20	QPSK	50	0	23.21	23.51	23.36
20	QPSK	50	24	23.43	23.58	23.38
20	QPSK	50	50	23.37	23.57	23.36
20	QPSK	100	0	23.35	23.46	23.40
20	16QAM	1	0	23.34	23.35	23.35
20	16QAM	1	49	23.36	23.77	23.35
20	16QAM	1	99	23.29	23.48	23.33
20	16QAM	50	0	22.23	22.67	22.47
20	16QAM	50	24	22.42	22.63	22.48
20	16QAM	50	50	22.44	22.63	22.51
20	16QAM	100	0	22.38	22.55	22.46
20	64QAM	1	0	21.99	22.20	22.10
20	64QAM	1	49	22.08	22.34	22.16
20	64QAM	1	99	22.00	22.25	22.16
20	64QAM	50	0	21.27	21.51	21.40
20	64QAM	50	24	21.36	21.59	21.46
20	64QAM	50	50	21.42	21.59	21.46
20	64QAM	100	0	21.42	21.56	21.41
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	24.06	24.10	24.14
15	QPSK	1	37	24.22	24.22	24.17
15	QPSK	1	74	24.10	24.09	24.11
15	QPSK	36	0	23.15	23.26	23.10
15	QPSK	36	20	23.30	23.29	23.28
15	QPSK	36	39	23.35	23.23	23.37
15	QPSK	75	0	23.11	23.17	23.25
15	16QAM	1	0	23.36	23.27	23.34
15	16QAM	1	37	23.34	23.29	23.34
15	16QAM	1	74	23.27	23.32	23.21
15	16QAM	36	0	22.19	22.14	22.06
15	16QAM	36	20	22.27	22.33	22.29
15	16QAM	36	39	22.27	22.21	22.20
15	16QAM	75	0	22.08	22.07	22.06
15	64QAM	1	0	21.89	21.86	21.95
15	64QAM	1	37	22.09	21.92	21.93
15	64QAM	1	74	21.83	21.85	21.87
15	64QAM	36	0	21.18	21.02	21.02
15	64QAM	36	20	21.33	21.29	21.29
15	64QAM	36	39	21.29	21.19	21.27
15	64QAM	75	0	21.29	21.31	21.31

Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	24.19	24.14	24.15
10	QPSK	1	25	24.12	24.14	24.25
10	QPSK	1	49	24.19	24.14	24.04
10	QPSK	25	0	23.25	23.27	23.14
10	QPSK	25	12	23.24	23.34	23.26
10	QPSK	25	25	23.25	23.36	23.28
10	QPSK	50	0	23.18	23.27	23.27
10	16QAM	1	0	23.38	23.32	23.39
10	16QAM	1	25	23.21	23.28	23.35
10	16QAM	1	49	23.32	23.20	23.30
10	16QAM	25	0	22.19	22.09	22.19
10	16QAM	25	12	22.35	22.31	22.27
10	16QAM	25	25	22.20	22.19	22.33
10	16QAM	50	0	22.22	22.04	22.12
10	64QAM	1	0	21.87	21.90	21.82
10	64QAM	1	25	22.09	22.05	22.09
10	64QAM	1	49	21.88	21.81	21.86
10	64QAM	25	0	21.04	21.19	21.05
10	64QAM	25	12	21.36	21.26	21.23
10	64QAM	25	25	21.32	21.36	21.36
10	64QAM	50	0	21.33	21.27	21.30
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	24.13	24.10	24.20
5	QPSK	1	12	24.15	24.12	24.22
5	QPSK	1	24	24.14	24.07	24.11
5	QPSK	12	0	23.17	23.17	23.22
5	QPSK	12	7	23.22	23.34	23.30
5	QPSK	12	13	23.36	23.28	23.33
5	QPSK	25	0	23.27	23.18	23.14
5	16QAM	1	0	23.30	23.31	23.32
5	16QAM	1	12	23.18	23.18	23.28
5	16QAM	1	24	23.29	23.35	23.31
5	16QAM	12	0	22.20	22.10	22.22
5	16QAM	12	7	22.35	22.17	22.34
5	16QAM	12	13	22.34	22.32	22.28
5	16QAM	25	0	22.10	22.14	22.14
5	64QAM	1	0	21.82	21.94	21.88
5	64QAM	1	12	21.99	22.03	22.01
5	64QAM	1	24	21.86	21.81	21.91
5	64QAM	12	0	21.07	21.09	21.20
5	64QAM	12	7	21.26	21.22	21.29
5	64QAM	12	13	21.18	21.21	21.37
5	64QAM	25	0	21.19	21.30	21.29

CA Power

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	100	0	100	0	200	20.42
			1	0	1	99	2	13.53
			1	99	1	0	2	22.21
		16QAM	100	0	100	0	200	19.36
			1	0	1	99	2	13.72
			1	99	1	0	2	21.51
		64QAM	100	0	100	0	200	19.51
			1	0	1	99	2	13.80
			1	99	1	0	2	19.41
21001	21199	QPSK	100	0	100	0	200	20.47
			1	0	1	99	2	13.57
			1	99	1	0	2	22.24
		16QAM	100	0	100	0	200	19.40
			1	0	1	99	2	13.81
			1	99	1	0	2	21.66
		64QAM	100	0	100	0	200	19.49
			1	0	1	99	2	13.86
			1	99	1	0	2	19.44
21152	21350	QPSK	100	0	100	0	200	20.38
			1	0	1	99	2	13.53
			1	99	1	0	2	22.21
		16QAM	100	0	100	0	200	19.33
			1	0	1	99	2	13.78
			1	99	1	0	2	21.65
		64QAM	100	0	100	0	200	19.49
			1	0	1	99	2	13.83
			1	99	1	0	2	19.44
Combination 20MHz+15MHz (100RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21021	QPSK	100	0	75	0	175	20.44
			1	0	1	74	2	13.31
			1	99	1	0	2	22.12
		16QAM	100	0	75	0	175	19.35
			1	0	1	74	2	13.75
			1	99	1	0	2	21.47
		64QAM	100	0	75	0	175	19.27
			1	0	1	74	2	13.58

			1	99	1	0	2	19.33
21026	21197	QPSK	100	0	75	0	175	20.48
			1	0	1	74	2	13.45
			1	99	1	0	2	22.07
		16QAM	100	0	75	0	175	19.34
			1	0	1	74	2	13.69
			1	99	1	0	2	21.36
		64QAM	100	0	75	0	175	19.45
			1	0	1	74	2	13.72
			1	99	1	0	2	19.42
21201	21372	QPSK	100	0	75	0	175	20.32
			1	0	1	74	2	13.37
			1	99	1	0	2	22.13
		16QAM	100	0	75	0	175	19.50
			1	0	1	74	2	13.66
			1	99	1	0	2	21.40
		64QAM	100	0	75	0	175	19.27
			1	0	1	74	2	13.60
			1	99	1	0	2	19.29
Combination 15MHz+20MHz (75RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20828	20999	QPSK	75	0	100	0	175	20.31
			1	0	1	99	2	13.27
			1	74	1	0	2	22.18
		16QAM	75	0	100	0	175	19.38
			1	0	1	99	2	13.71
			1	74	1	0	2	21.42
		64QAM	75	0	100	0	175	19.36
			1	0	1	99	2	13.73
			1	74	1	0	2	19.38
21003	21174	QPSK	75	0	100	0	175	20.48
			1	0	1	99	2	13.35
			1	74	1	0	2	22.13
		16QAM	75	0	100	0	175	19.35
			1	0	1	99	2	13.67
			1	74	1	0	2	21.42
		64QAM	75	0	100	0	175	19.40
			1	0	1	99	2	13.72
			1	74	1	0	2	19.35
21179	21350	QPSK	75	0	100	0	175	20.32
			1	0	1	99	2	13.32
			1	74	1	0	2	22.04
		16QAM	75	0	100	0	175	19.37
			1	0	1	99	2	13.61

			1	74	1	0	2	21.38
		64QAM	75	0	100	0	175	19.27
			1	0	1	99	2	13.67
			1	74	1	0	2	19.38
Combination 20MHz+10MHz (100RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	20994	QPSK	100	0	50	0	150	20.46
			1	0	1	49	2	13.43
			1	99	1	0	2	22.13
		16QAM	100	0	50	0	150	19.35
			1	0	1	49	2	13.77
			1	99	1	0	2	21.53
		64QAM	100	0	50	0	150	19.34
			1	0	1	49	2	13.74
			1	99	1	0	2	19.33
21051	21195	QPSK	100	0	50	0	150	20.36
			1	0	1	49	2	13.46
			1	99	1	0	2	22.19
		16QAM	100	0	50	0	150	19.33
			1	0	1	49	2	13.61
			1	99	1	0	2	21.35
		64QAM	100	0	50	0	150	19.35
			1	0	1	49	2	13.55
			1	99	1	0	2	19.41
21251	21395	QPSK	100	0	50	0	150	20.50
			1	0	1	49	2	13.28
			1	99	1	0	2	22.10
		16QAM	100	0	50	0	150	19.43
			1	0	1	49	2	13.66
			1	99	1	0	2	21.42
		64QAM	100	0	50	0	150	19.46
			1	0	1	49	2	13.65
			1	99	1	0	2	19.36
Combination 10MHz+20MHz (50RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20805	20949	QPSK	50	0	100	0	150	20.43
			1	0	1	99	2	13.30
			1	49	1	0	2	22.14
		16QAM	50	0	100	0	150	19.37
			1	0	1	99	2	13.67
			1	49	1	0	2	21.36
		64QAM	50	0	100	0	150	19.28
			1	0	1	99	2	13.63

			1	49	1	0	2	19.47
21006	21150	QPSK	50	0	100	0	150	20.45
			1	0	1	99	2	13.28
			1	49	1	0	2	22.20
		16QAM	50	0	100	0	150	19.40
			1	0	1	99	2	13.72
			1	49	1	0	2	21.46
		64QAM	50	0	100	0	150	19.29
			1	0	1	99	2	13.62
			1	49	1	0	2	19.43
21206	21350	QPSK	50	0	100	0	150	20.50
			1	0	1	99	2	13.34
			1	49	1	0	2	22.12
		16QAM	50	0	100	0	150	19.51
			1	0	1	99	2	13.72
			1	49	1	0	2	21.41
		64QAM	50	0	100	0	150	19.39
			1	0	1	99	2	13.63
			1	49	1	0	2	19.42

Combination 15MHz+15MHz (75RB+75RB)

PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20825	20975	QPSK	75	0	75	0	150	20.33
			1	0	1	74	2	13.36
			1	74	1	0	2	22.05
		16QAM	75	0	75	0	150	19.32
			1	0	1	74	2	13.78
			1	74	1	0	2	21.42
		64QAM	75	0	75	0	150	19.42
			1	0	1	74	2	13.60
			1	74	1	0	2	19.29
21025	21175	QPSK	75	0	75	0	150	20.34
			1	0	1	74	2	13.41
			1	74	1	0	2	22.03
		16QAM	75	0	75	0	150	19.40
			1	0	1	74	2	13.62
			1	74	1	0	2	21.48
		64QAM	75	0	75	0	150	19.44
			1	0	1	74	2	13.73
			1	74	1	0	2	19.47
21225	21375	QPSK	75	0	75	0	150	20.44
			1	0	1	74	2	13.35
			1	74	1	0	2	22.05
		16QAM	75	0	75	0	150	19.43
			1	0	1	74	2	13.77

			1	74	1	0	2	21.54
		64QAM	75	0	75	0	150	19.38
			1	0	1	74	2	13.57
			1	74	1	0	2	19.34
Combination 15MHz+10MHz (75RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20825	20945	QPSK	75	0	50	0	125	20.47
			1	0	1	49	2	13.40
			1	74	1	0	2	22.19
		16QAM	75	0	50	0	125	19.42
			1	0	1	49	2	13.72
			1	74	1	0	2	21.53
		64QAM	75	0	50	0	125	19.45
			1	0	1	49	2	13.64
			1	74	1	0	2	19.39
21051	21171	QPSK	75	0	50	0	125	20.48
			1	0	1	49	2	13.32
			1	74	1	0	2	22.03
		16QAM	75	0	50	0	125	19.34
			1	0	1	49	2	13.80
			1	74	1	0	2	21.40
		64QAM	75	0	50	0	125	19.31
			1	0	1	49	2	13.55
			1	74	1	0	2	19.41
21277	21397	QPSK	75	0	50	0	125	20.46
			1	0	1	49	2	13.39
			1	74	1	0	2	22.09
		16QAM	75	0	50	0	125	19.37
			1	0	1	49	2	13.65
			1	74	1	0	2	21.41
		64QAM	75	0	50	0	125	19.28
			1	0	1	49	2	13.74
			1	74	1	0	2	19.33

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	100	0	100	0	200	20.58
			1	0	1	99	2	13.78
			1	99	1	0	2	22.64
		16QAM	100	0	100	0	200	19.65
			1	0	1	99	2	13.95
			1	99	1	0	2	21.72
		64QAM	100	0	100	0	200	19.56
			1	0	1	99	2	13.78
			1	99	1	0	2	19.62
37901	38099	QPSK	100	0	100	0	200	20.73
			1	0	1	99	2	13.68
			1	99	1	0	2	22.71
		16QAM	100	0	100	0	200	19.50
			1	0	1	99	2	13.88
			1	99	1	0	2	21.67
		64QAM	100	0	100	0	200	19.70
			1	0	1	99	2	13.76
			1	99	1	0	2	19.69
37952	38150	QPSK	100	0	100	0	200	20.71
			1	0	1	99	2	13.66
			1	99	1	0	2	22.61
		16QAM	100	0	100	0	200	19.62
			1	0	1	99	2	13.92
			1	99	1	0	2	21.70
		64QAM	100	0	100	0	200	19.62
			1	0	1	99	2	13.70
			1	99	1	0	2	19.56
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37825	37975	QPSK	75	0	75	0	150	20.77
			1	0	1	74	2	13.83
			1	74	1	0	2	22.75
		16QAM	75	0	75	0	150	19.69
			1	0	1	74	2	13.96
			1	74	1	0	2	21.86
		64QAM	75	0	75	0	150	19.76
			1	0	1	74	2	13.90
			1	74	1	0	2	19.71
37925	38075	QPSK	75	0	75	0	150	20.65

			1	0	1	74	2	13.80
			1	74	1	0	2	22.62
		16QAM	75	0	75	0	150	19.83
			1	0	1	74	2	13.96
			1	74	1	0	2	21.91
		64QAM	75	0	75	0	150	19.68
			1	0	1	74	2	13.94
			1	74	1	0	2	19.62
38025	38175	QPSK	75	0	75	0	150	20.78
			1	0	1	74	2	13.82
			1	74	1	0	2	22.65
		16QAM	75	0	75	0	150	19.85
			1	0	1	74	2	13.90
			1	74	1	0	2	21.95
		64QAM	75	0	75	0	150	19.74
			1	0	1	74	2	13.80
			1	74	1	0	2	19.72

ERP/EIRP

LTE Band 7 (GT - LC = -0.25 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	23.52	23.51	23.58
Conducted Power (Watts)	0.2249	0.2244	0.2280
EIRP(dBm)	23.27	23.26	23.33
EIRP(Watts)	0.2123	0.2118	0.2153

LTE Band 7 (GT - LC = -0.25 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	23.47	23.46	23.55	23.47	23.56	23.61	23.63	23.61	23.72
Conducted Power (Watts)	0.2223	0.2218	0.2265	0.2223	0.2270	0.2296	0.2307	0.2296	0.2355
EIRP(dBm)	23.22	23.21	23.30	23.22	23.31	23.36	23.38	23.36	23.47
EIRP(Watts)	0.2099	0.2094	0.2138	0.2099	0.2143	0.2168	0.2178	0.2168	0.2223

LTE Band 7 (GT - LC = -0.25 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	22.86	22.73	22.83
Conducted Power (Watts)	0.1932	0.1875	0.1919
EIRP(dBm)	22.61	22.48	22.58
EIRP(Watts)	0.1824	0.1770	0.1811

LTE Band 7 (GT - LC = -0.25 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	22.71	22.77	22.87	22.82	22.72	22.68	22.88	22.50	22.69
Conducted Power (Watts)	0.1866	0.1892	0.1936	0.1914	0.1871	0.1854	0.1941	0.1778	0.1858
EIRP(dBm)	22.46	22.52	22.62	22.57	22.47	22.43	22.63	22.25	22.44
EIRP(Watts)	0.1762	0.1786	0.1828	0.1807	0.1766	0.1750	0.1832	0.1679	0.1754

LTE Band 7 (GT - LC = -0.25 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	21.51	21.59	21.49
Conducted Power (Watts)	0.1416	0.1442	0.1409
EIRP(dBm)	21.26	21.34	21.24
EIRP(Watts)	0.1337	0.1361	0.1330

LTE Band 7 (GT - LC = -0.25 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	21.54	21.49	21.61	21.55	21.57	21.49	21.64	21.82	21.47
Conducted Power (Watts)	0.1426	0.1409	0.1449	0.1429	0.1435	0.1409	0.1459	0.1521	0.1403
EIRP(dBm)	21.29	21.24	21.36	21.30	21.32	21.24	21.39	21.57	21.22
EIRP(Watts)	0.1346	0.1330	0.1368	0.1349	0.1355	0.1330	0.1377	0.1435	0.1324

LTE Band 41 (G_T - L_C = -0.25 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	24.15	24.12	24.22	24.12	24.14	24.25	24.22	24.22	24.17
Conducted Power (Watts)	0.2600	0.2582	0.2642	0.2582	0.2594	0.2661	0.2642	0.2642	0.2612
EIRP(dBm)	23.90	23.87	23.97	23.87	23.89	24.00	23.97	23.97	23.92
EIRP(Watts)	0.2455	0.2438	0.2495	0.2438	0.2449	0.2512	0.2495	0.2495	0.2466

LTE Band 41 (G_T - L_C = -0.25 dB) QPSK			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	24.38	24.55	24.41
Conducted Power (Watts)	0.2742	0.2851	0.2761
EIRP(dBm)	24.13	24.30	24.16
EIRP(Watts)	0.2588	0.2692	0.2606

LTE Band 41 (G_T - L_C = -0.25 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	23.29	23.35	23.31	23.38	23.32	23.39	23.36	23.27	23.34
Conducted Power (Watts)	0.2133	0.2163	0.2143	0.2178	0.2148	0.2183	0.2168	0.2123	0.2158
EIRP(dBm)	23.04	23.10	23.06	23.13	23.07	23.14	23.11	23.02	23.09
EIRP(Watts)	0.2014	0.2042	0.2023	0.2056	0.2028	0.2061	0.2046	0.2004	0.2037

LTE Band 41 (G_T - L_C = -0.25 dB) 16QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	23.36	23.77	23.35
Conducted Power (Watts)	0.2168	0.2382	0.2163
EIRP(dBm)	23.11	23.52	23.10
EIRP(Watts)	0.2046	0.2249	0.2042

LTE Band 41 (G_T - L_C = -0.25 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	21.99	22.03	22.01	22.09	22.05	22.09	22.09	21.92	21.93
Conducted Power (Watts)	0.1581	0.1596	0.1589	0.1618	0.1603	0.1618	0.1618	0.1556	0.1560
EIRP(dBm)	21.74	21.78	21.76	21.84	21.80	21.84	21.84	21.67	21.68
EIRP(Watts)	0.1493	0.1507	0.1500	0.1528	0.1514	0.1528	0.1528	0.1469	0.1472

LTE Band 41 (G_T - L_C = -0.25 dB) 64QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	22.08	22.34	22.16
Conducted Power (Watts)	0.1614	0.1714	0.1644
EIRP(dBm)	21.83	22.09	21.91
EIRP(Watts)	0.1524	0.1618	0.1552

CA EIRP

LTE Band 7 CA (GT - LC = -0.25 dB) QPSK									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel PCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.05	22.03	22.05	22.14	22.20	22.12	22.13	22.19	22.10
Conducted Power (Watts)	0.1603	0.1596	0.1603	0.1637	0.1660	0.1629	0.1633	0.1656	0.1622
EIRP(dBm)	21.80	21.78	21.80	21.89	21.95	21.87	21.88	21.94	21.85
EIRP(Watts)	0.1514	0.1507	0.1514	0.1545	0.1567	0.1538	0.1542	0.1563	0.1531

LTE Band 7 CA (GT - LC = -0.25 dB) QPSK									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel PCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.18	22.13	22.04	22.12	22.07	22.13	22.21	22.24	22.21
Conducted Power (Watts)	0.1652	0.1633	0.1600	0.1629	0.1611	0.1633	0.1663	0.1675	0.1663
EIRP(dBm)	21.93	21.88	21.79	21.87	21.82	21.88	21.96	21.99	21.96
EIRP(Watts)	0.1560	0.1542	0.1510	0.1538	0.1521	0.1542	0.1570	0.1581	0.1570

LTE Band 7 CA (GT - LC = -0.25 dB) 16QAM									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel PCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	21.42	21.48	21.54	21.36	21.46	21.41	21.53	21.35	21.42
Conducted Power (Watts)	0.1387	0.1406	0.1426	0.1368	0.1400	0.1384	0.1422	0.1365	0.1387
EIRP(dBm)	21.17	21.23	21.29	21.11	21.21	21.16	21.28	21.10	21.17
EIRP(Watts)	0.1309	0.1327	0.1346	0.1291	0.1321	0.1306	0.1343	0.1288	0.1309

LTE Band 7 CA (GT - LC = -0.25 dB) 16QAM									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel PCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	21.42	21.42	21.38	21.47	21.36	21.40	21.51	21.66	21.65
Conducted Power (Watts)	0.1387	0.1387	0.1374	0.1403	0.1368	0.1380	0.1416	0.1466	0.1462
EIRP(dBm)	21.17	21.17	21.13	21.22	21.11	21.15	21.26	21.41	21.40
EIRP(Watts)	0.1309	0.1309	0.1297	0.1324	0.1291	0.1303	0.1337	0.1384	0.1380

LTE Band 7 CA (GT - LC = -0.25 dB) 64QAM									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel PCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	19.42	19.47	19.38	19.47	19.43	19.42	19.34	19.41	19.46
Conducted Power (Watts)	0.0875	0.0885	0.0867	0.0885	0.0877	0.0875	0.0859	0.0873	0.0883
EIRP(dBm)	19.17	19.22	19.13	19.22	19.18	19.17	19.09	19.16	19.21
EIRP(Watts)	0.0826	0.0836	0.0818	0.0836	0.0828	0.0826	0.0811	0.0824	0.0834

LTE Band 7 CA (GT - LC = -0.25 dB) 64QAM									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel PCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	19.38	19.40	19.38	19.33	19.45	19.29	19.51	19.49	19.49
Conducted Power (Watts)	0.0867	0.0871	0.0867	0.0857	0.0881	0.0849	0.0893	0.0889	0.0889
EIRP(dBm)	19.13	19.15	19.13	19.08	19.20	19.04	19.26	19.24	19.24
EIRP(Watts)	0.0818	0.0822	0.0818	0.0809	0.0832	0.0802	0.0843	0.0839	0.0839

LTE Band 7 CA (GT - LC = -0.25 dB) QPSK			
Bandwidth	15M + 10M		
Channel PCC	20825	21025	21225
	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375
	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.19	22.03	22.09
Conducted Power (Watts)	0.1656	0.1596	0.1618
EIRP(dBm)	21.94	21.78	21.84
EIRP(Watts)	0.1563	0.1507	0.1528

LTE Band 7 CA (GT - LC = -0.25 dB) 16QAM			
Bandwidth	15M + 10M		
Channel PCC	20825	21025	21225
	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375
	(Low)	(Mid)	(High)
Conducted Power (dBm)	21.53	21.40	21.41
Conducted Power (Watts)	0.1422	0.1380	0.1384
EIRP(dBm)	21.28	21.15	21.16
EIRP(Watts)	0.1343	0.1303	0.1306

LTE Band 7 CA (GT - LC = -0.25 dB) 64QAM			
Bandwidth	15M + 10M		
Channel PCC	20825	21025	21225
	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375
	(Low)	(Mid)	(High)
Conducted Power (dBm)	19.45	19.41	19.33
Conducted Power (Watts)	0.0881	0.0873	0.0857
EIRP(dBm)	19.20	19.16	19.08
EIRP(Watts)	0.0832	0.0824	0.0809

LTE Band 38 CA (GT - LC = -0.25 dB) QPSK						
Bandwidth	15M + 15M			20M+20M		
Channel PCC	37825	37925	38025	37850	37901	37952
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	37975	38075	38175	38048	38099	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.75	22.62	22.65	22.64	22.71	22.61
Conducted Power (Watts)	0.1884	0.1828	0.1841	0.1837	0.1866	0.1824
EIRP(dBm)	22.50	22.37	22.40	22.39	22.46	22.36
EIRP(Watts)	0.1778	0.1726	0.1738	0.1734	0.1762	0.1722

LTE Band 38 CA (GT - LC = -0.25 dB) 16QAM						
Bandwidth	15M + 15M			20M+20M		
Channel PCC	37825	37925	38025	37850	37901	37952
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	37975	38075	38175	38048	38099	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	21.86	21.91	21.95	21.72	21.67	21.70
Conducted Power (Watts)	0.1535	0.1552	0.1567	0.1486	0.1469	0.1479
EIRP(dBm)	21.61	21.66	21.70	21.47	21.42	21.45
EIRP(Watts)	0.1449	0.1466	0.1479	0.1403	0.1387	0.1396

LTE Band 38 CA (GT - LC = -0.25 dB) 64QAM						
Bandwidth	15M + 15M			20M+20M		
Channel PCC	37825	37925	38025	37850	37901	37952
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	37975	38075	38175	38048	38099	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	19.76	19.68	19.74	19.62	19.70	19.62
Conducted Power (Watts)	0.0946	0.0929	0.0942	0.0916	0.0933	0.0916
EIRP(dBm)	19.51	19.43	19.49	19.37	19.45	19.37
EIRP(Watts)	0.0893	0.0877	0.0889	0.0865	0.0881	0.0865

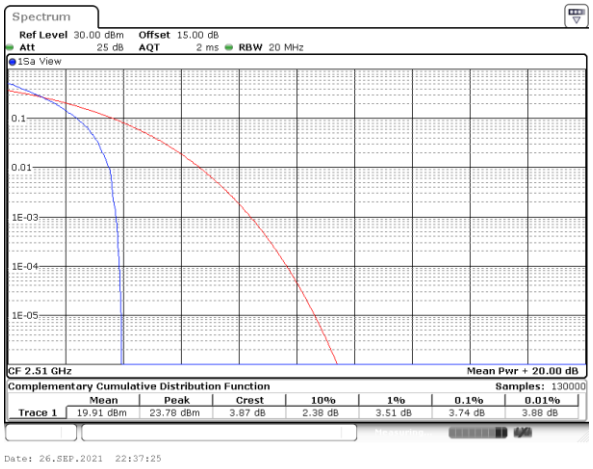
LTE Band 7

Peak-to-Average Ratio

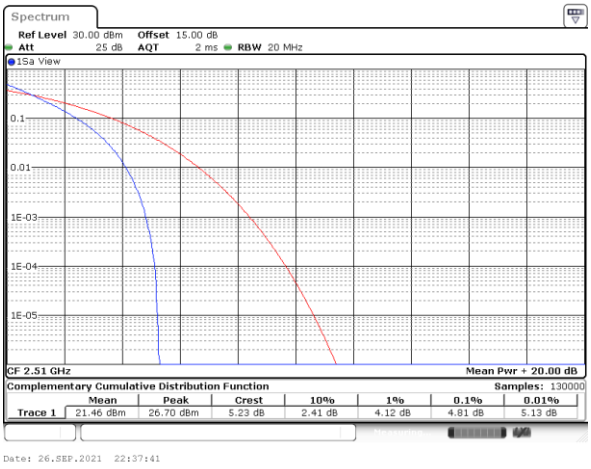
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.74	4.81	4.49	5.62	PASS
Middle CH	4.03	4.96	5.10	5.94	
Highest CH	3.71	4.55	4.61	5.59	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.07	6.14	-	-	PASS
Middle CH	5.71	6.23	-	-	
Highest CH	5.28	5.97	-	-	

LTE Band 7 / 20MHz / QPSK

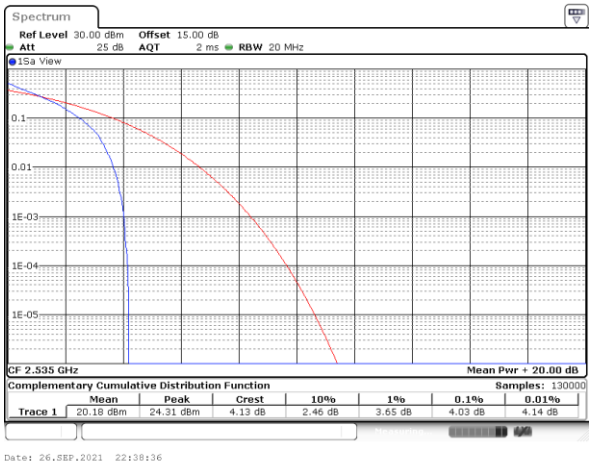
Lowest Channel / 1RB



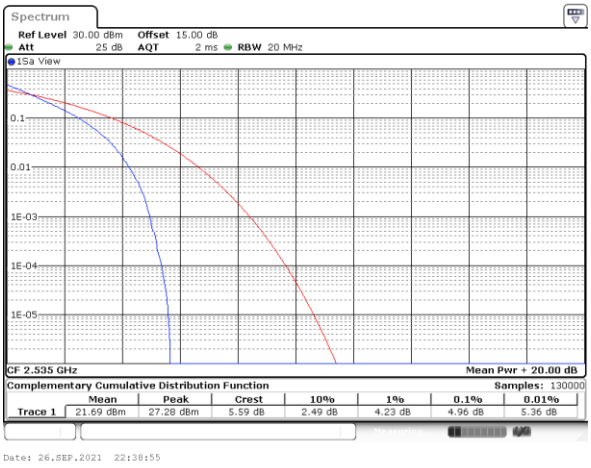
Lowest Channel / Full RB



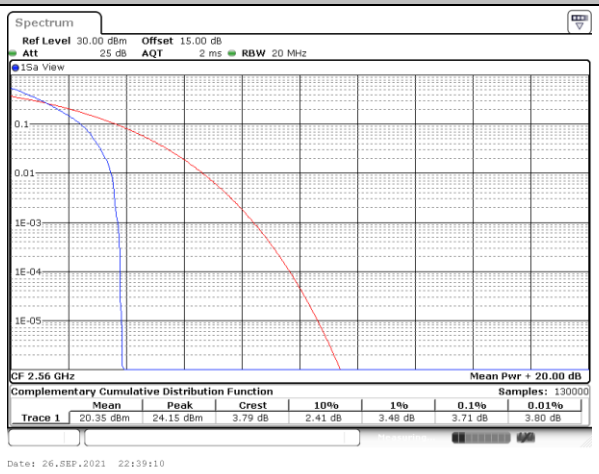
Middle Channel / 1RB



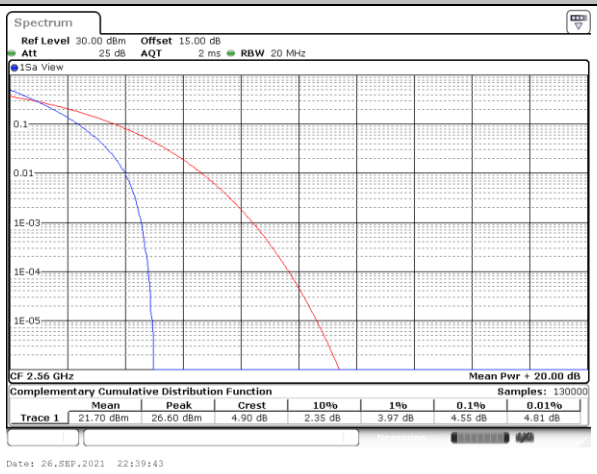
Middle Channel / Full RB



Highest Channel / 1RB

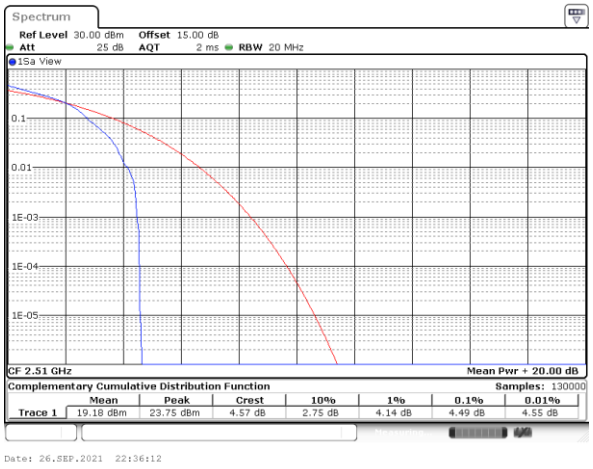


Highest Channel / Full RB

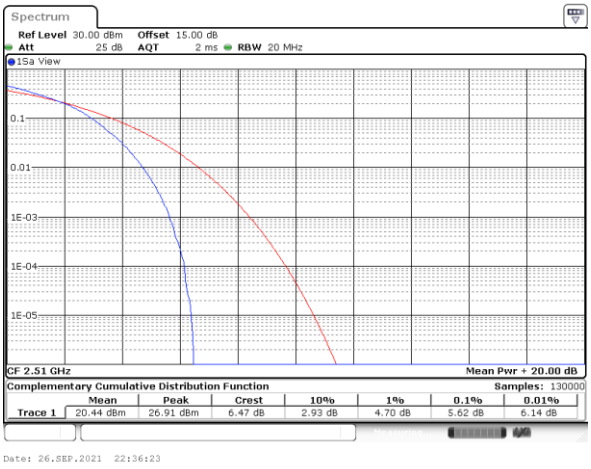


LTE Band 7 / 20MHz / 16QAM

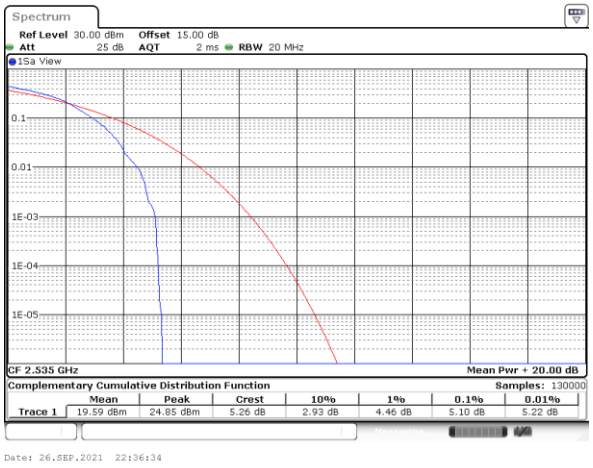
Lowest Channel / 1RB



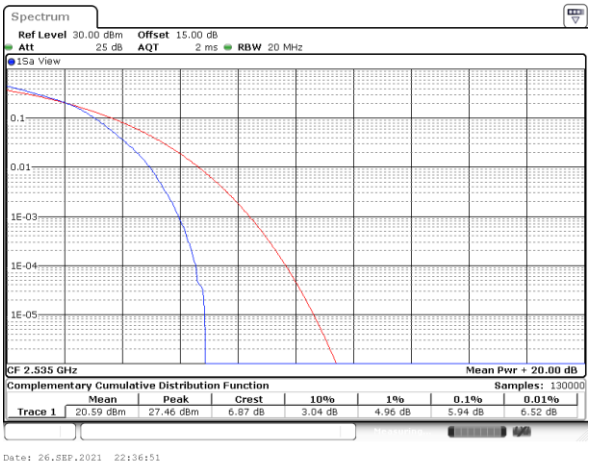
Lowest Channel / Full RB



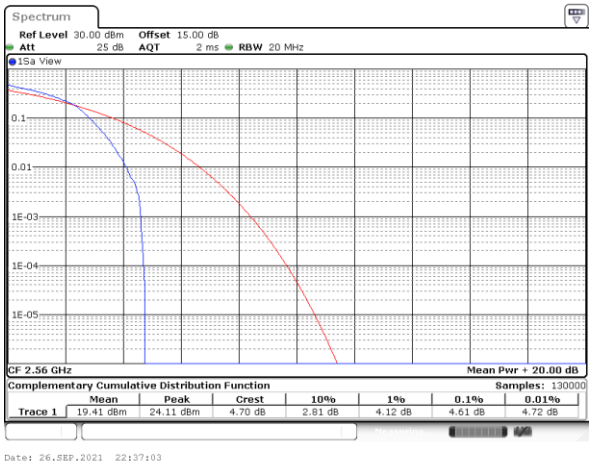
Middle Channel / 1RB



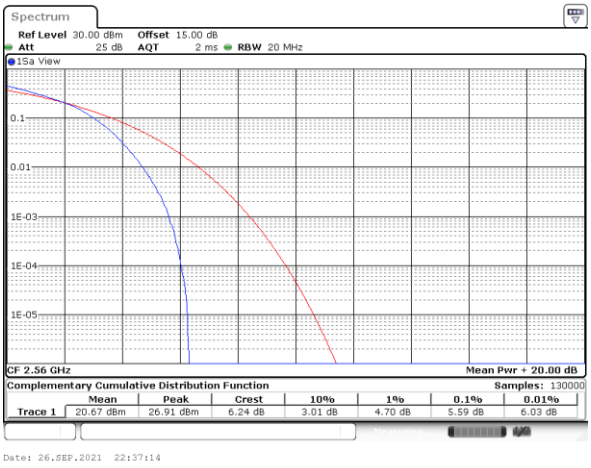
Middle Channel / Full RB



Highest Channel / 1RB

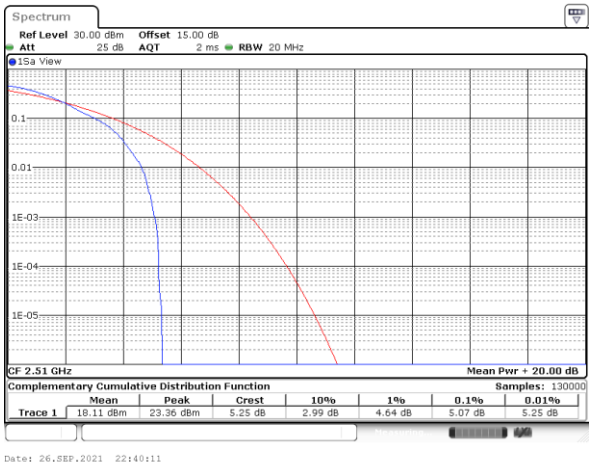


Highest Channel / Full RB

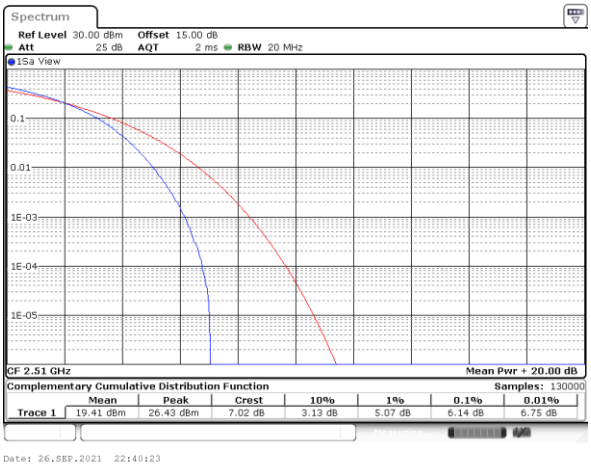


LTE Band 7 / 20MHz / 64QAM

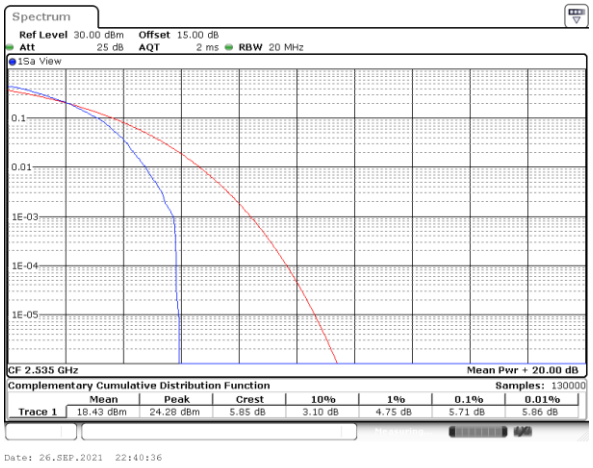
Lowest Channel / 1RB



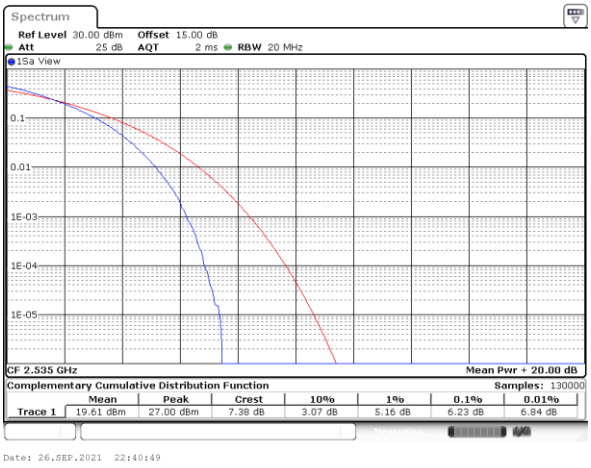
Lowest Channel / Full RB



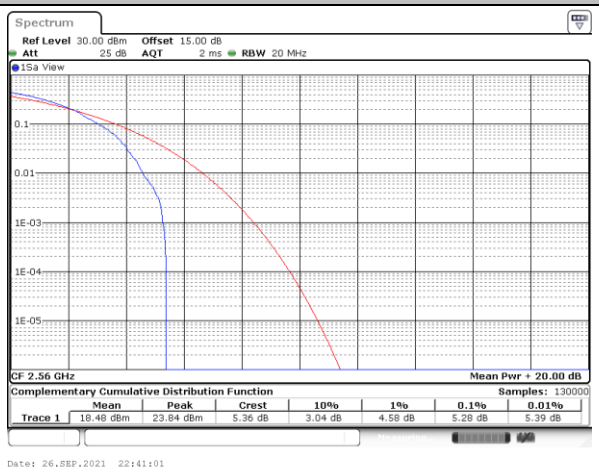
Middle Channel / 1RB



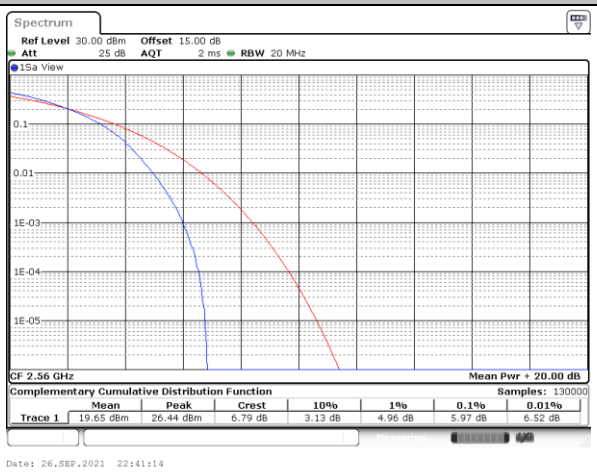
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

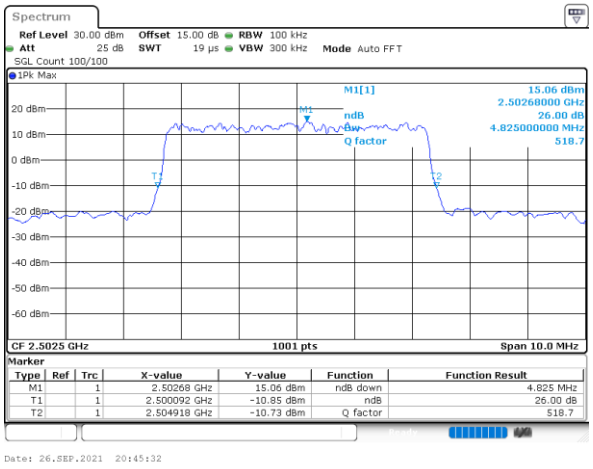


26dB Bandwidth

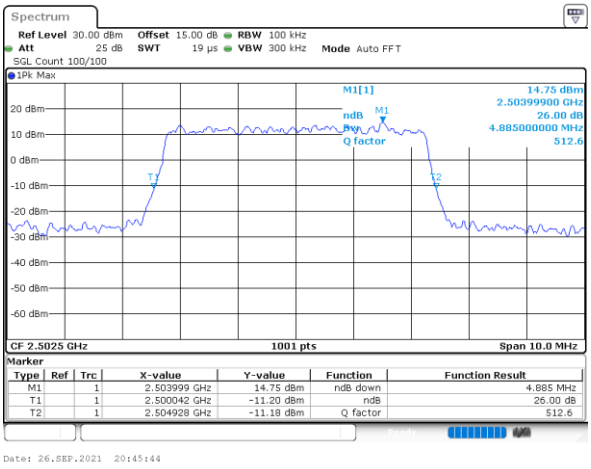
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.83	4.89	9.73	9.71	14.57	14.24	18.82	18.86
Middle CH	-	-	-	-	4.82	4.84	9.73	9.77	14.57	14.45	18.90	18.86
Highest CH	-	-	-	-	5.07	4.91	9.71	9.81	14.36	14.39	18.86	18.78
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.89	-	9.73	-	14.51	-	18.66	-
Middle CH	-	-	-	-	4.85	-	9.99	-	14.12	-	18.82	-
Highest CH	-	-	-	-	4.91	-	9.75	-	14.36	-	18.94	-

LTE Band 7

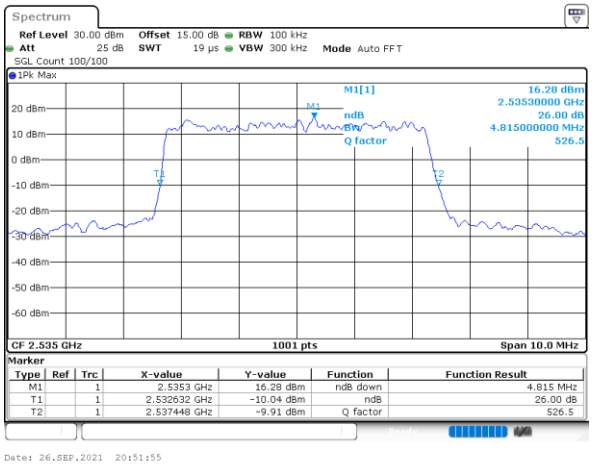
Lowest Channel / 5MHz / QPSK



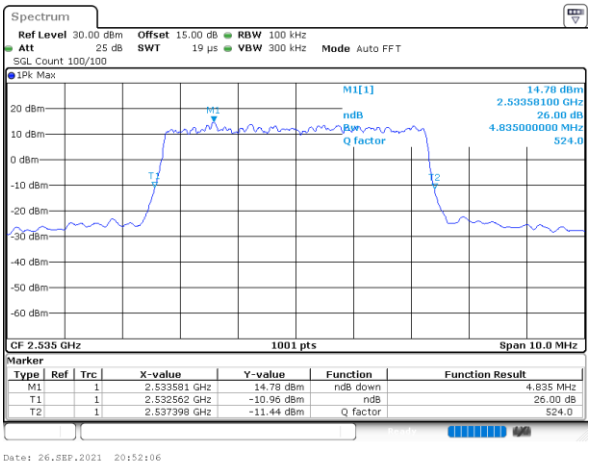
Lowest Channel / 5MHz / 16QAM



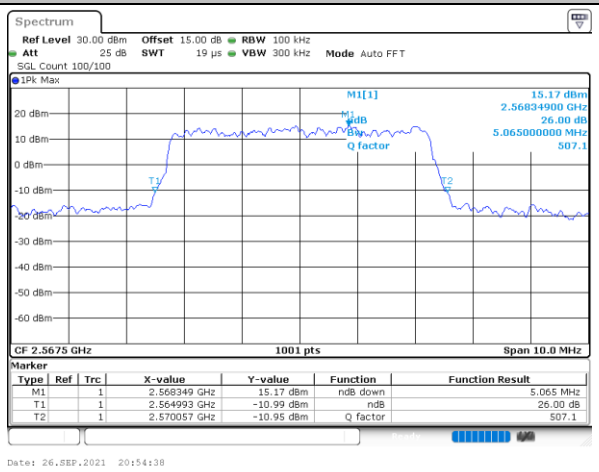
Middle Channel / 5MHz / QPSK



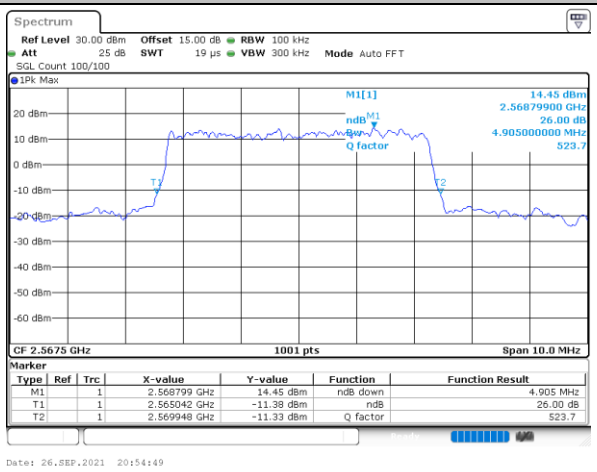
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

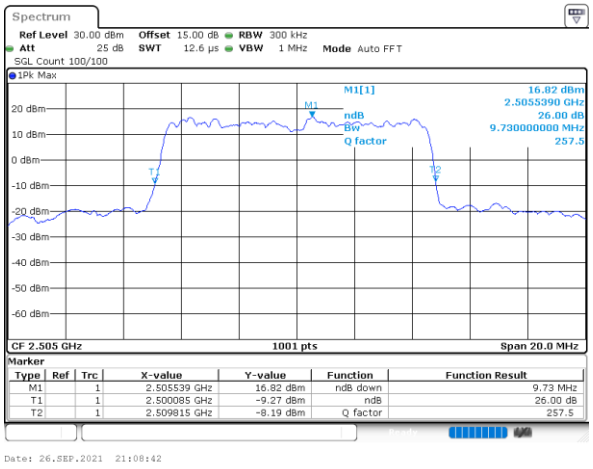


Highest Channel / 5MHz / 16QAM

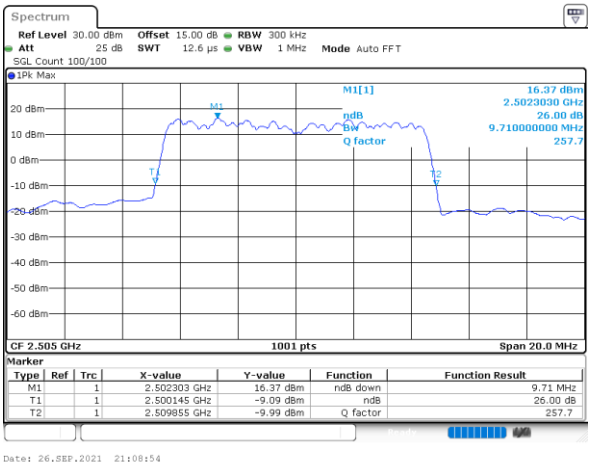


LTE Band 7

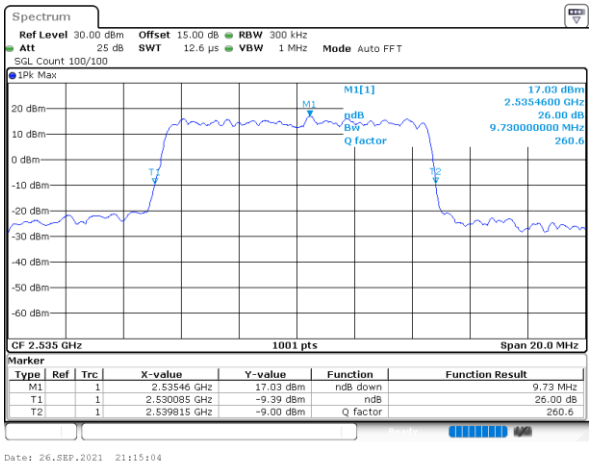
Lowest Channel / 10MHz / QPSK



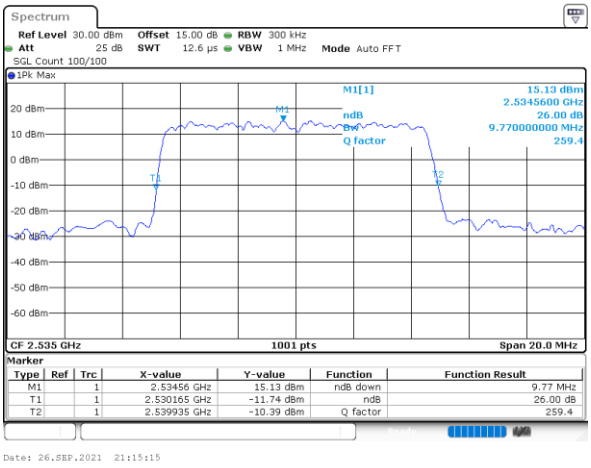
Lowest Channel / 10MHz / 16QAM



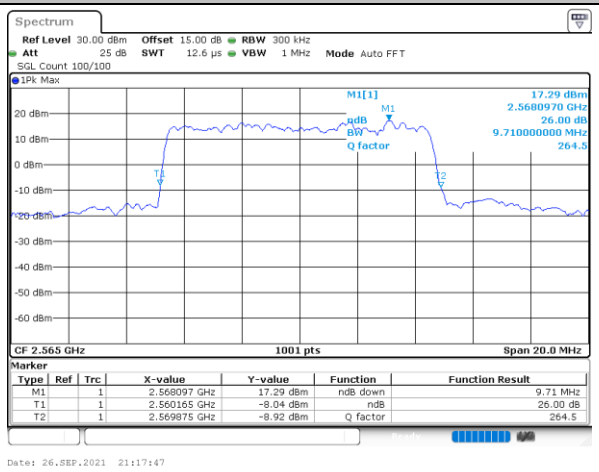
Middle Channel / 10MHz / QPSK



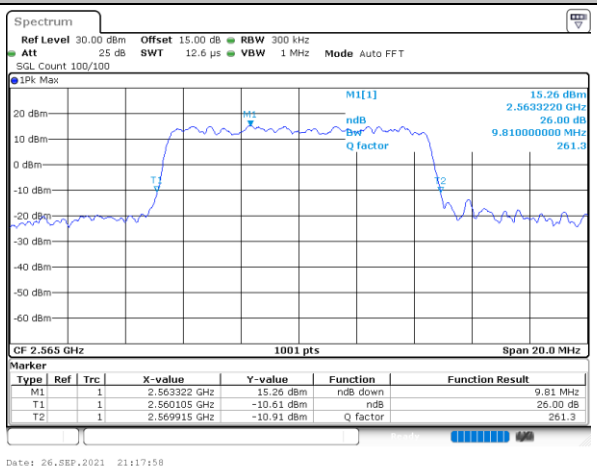
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

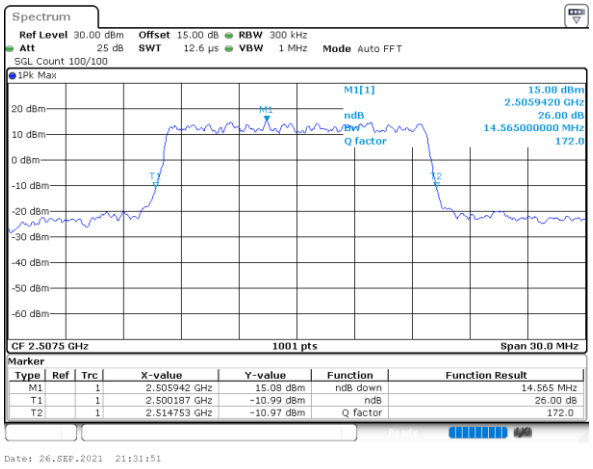


Highest Channel / 10MHz / 16QAM

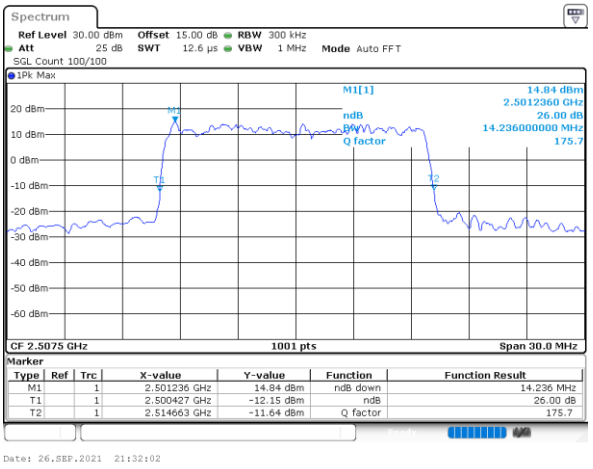


LTE Band 7

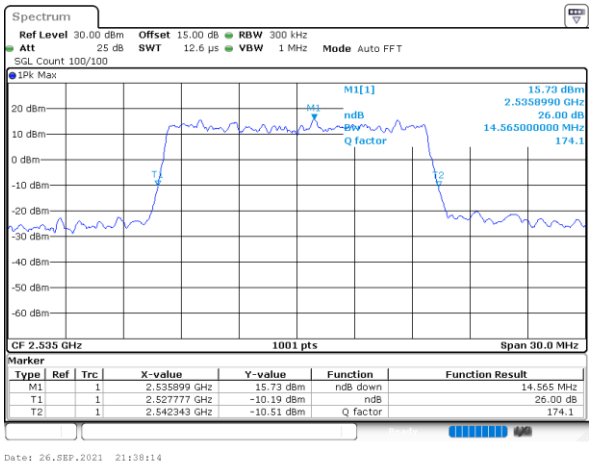
Lowest Channel / 15MHz / QPSK



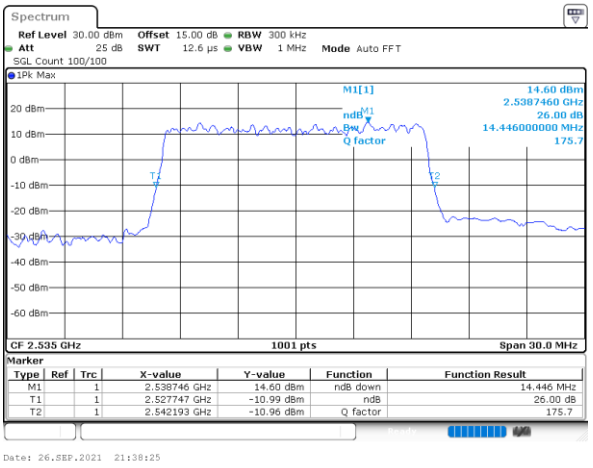
Lowest Channel / 15MHz / 16QAM



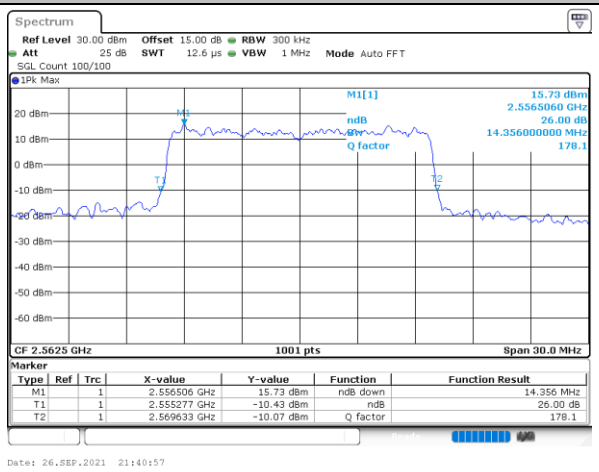
Middle Channel / 15MHz / QPSK



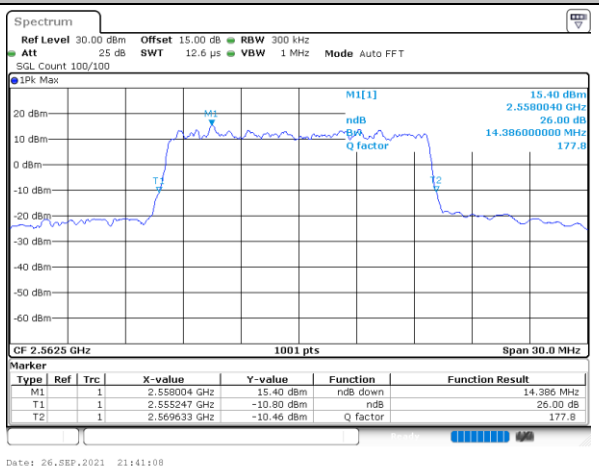
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

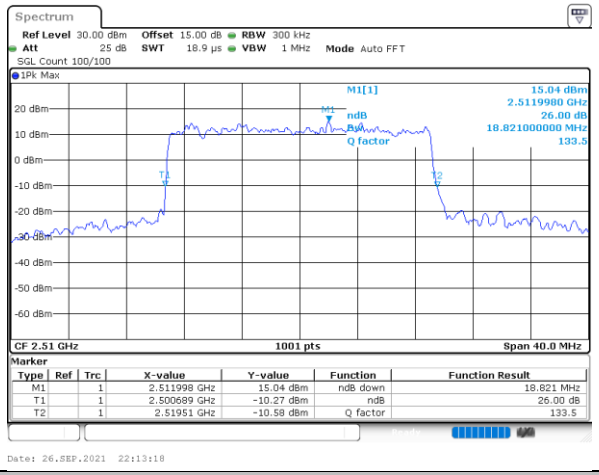


Highest Channel / 15MHz / 16QAM

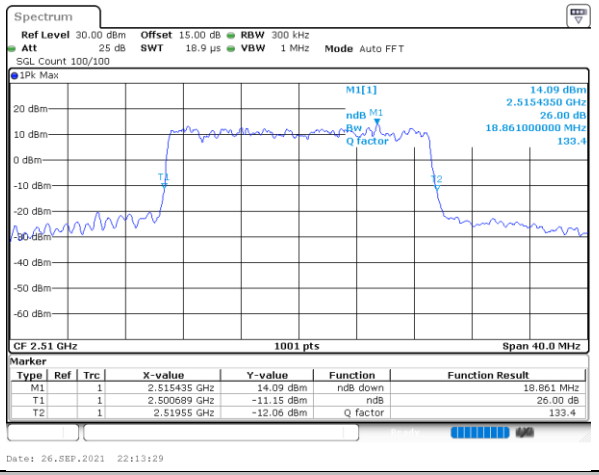


LTE Band 7

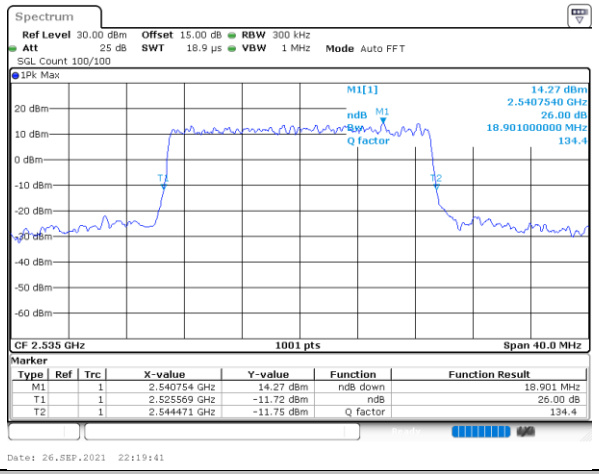
Lowest Channel / 20MHz / QPSK



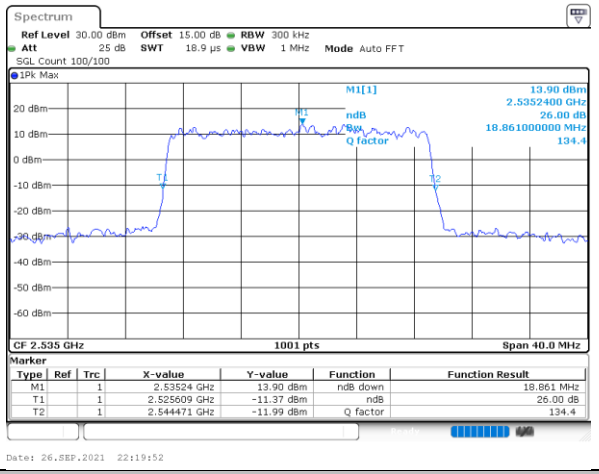
Lowest Channel / 20MHz / 16QAM



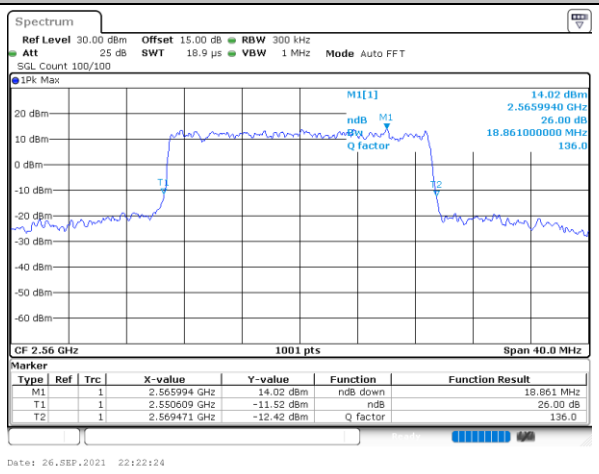
Middle Channel / 20MHz / QPSK



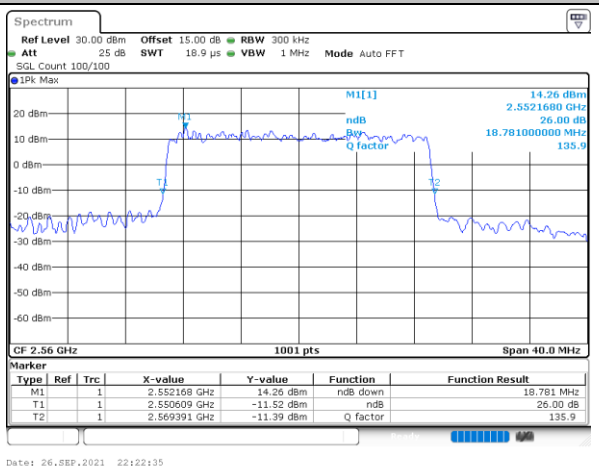
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

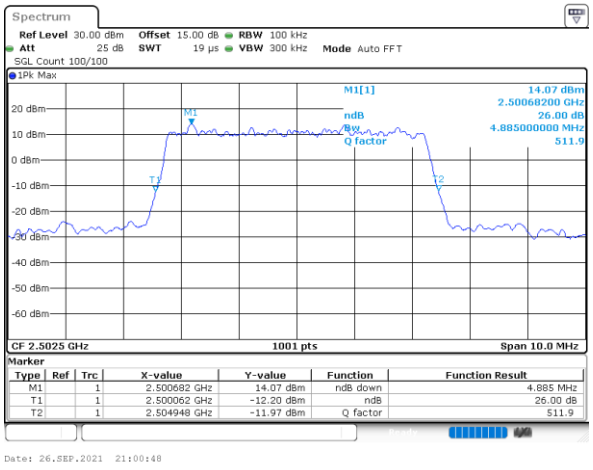


Highest Channel / 20MHz / 16QAM

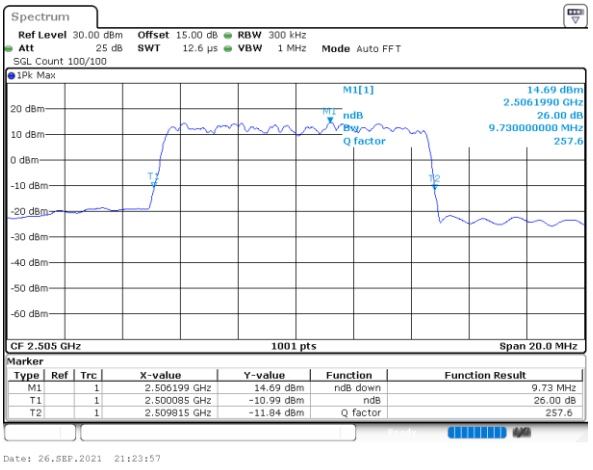


LTE Band 7

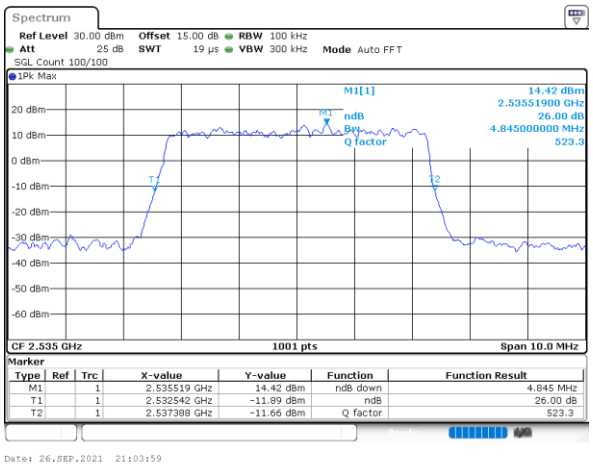
Lowest Channel / 5MHz / 64QAM



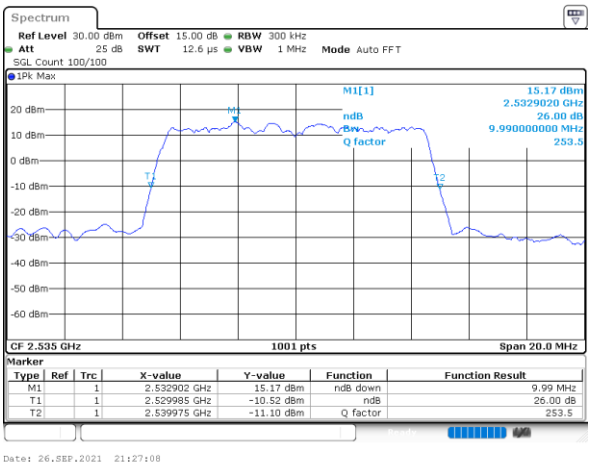
Lowest Channel / 10MHz / 64QAM



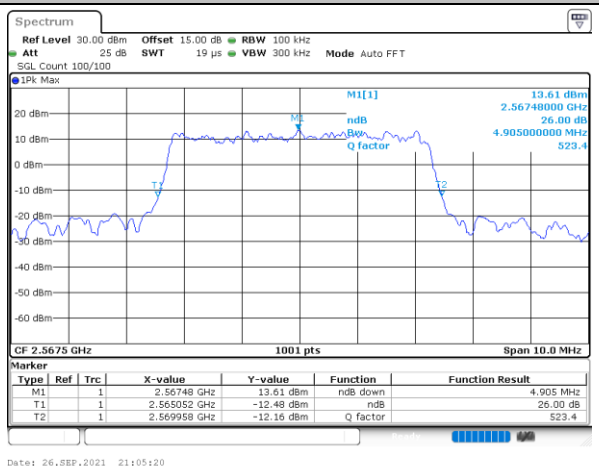
Middle Channel / 5MHz / 64QAM



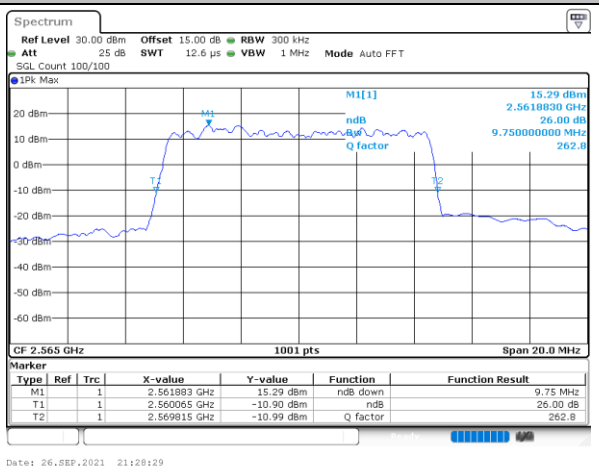
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

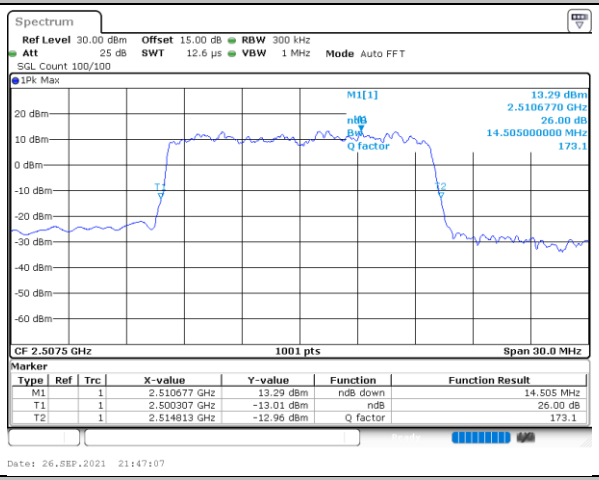


Highest Channel / 10MHz / 64QAM

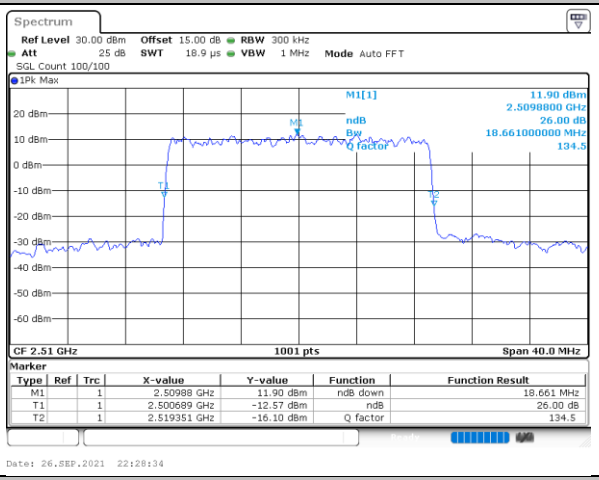


LTE Band 7

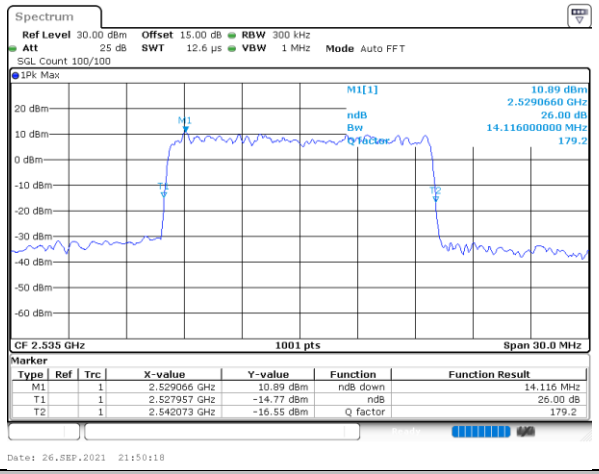
Lowest Channel / 15MHz / 64QAM



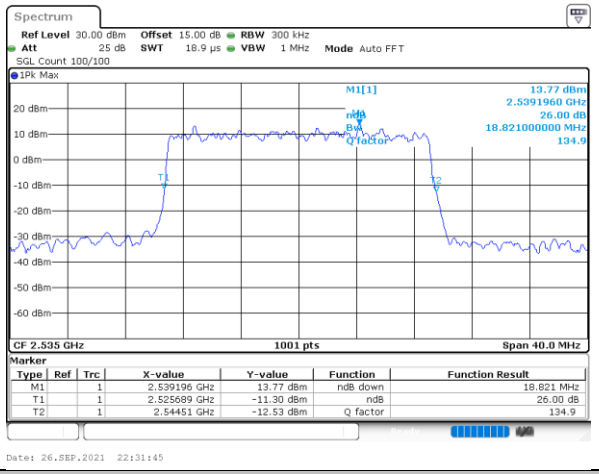
Lowest Channel / 20MHz / 64QAM



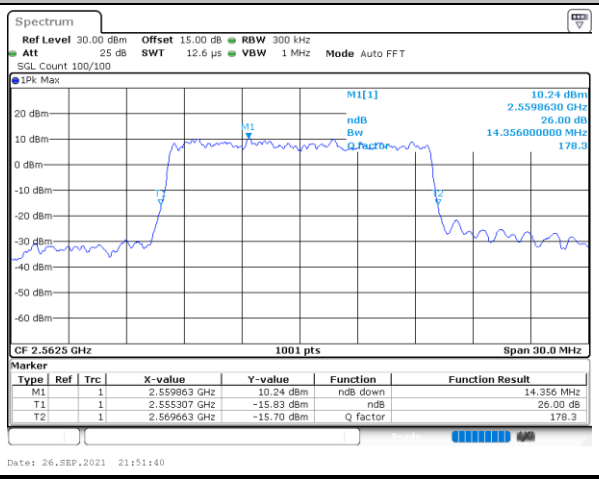
Middle Channel / 15MHz / 64QAM



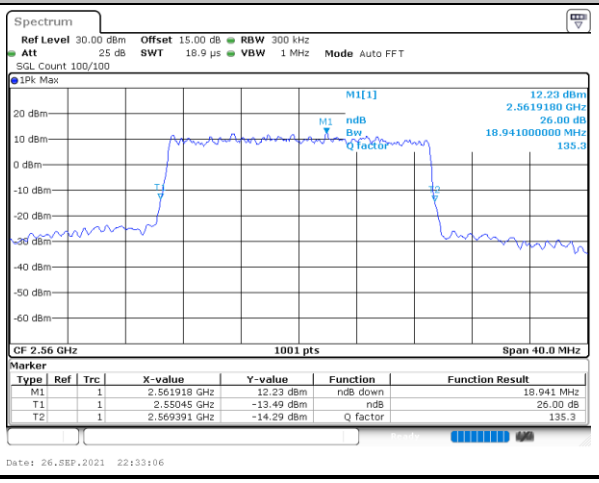
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

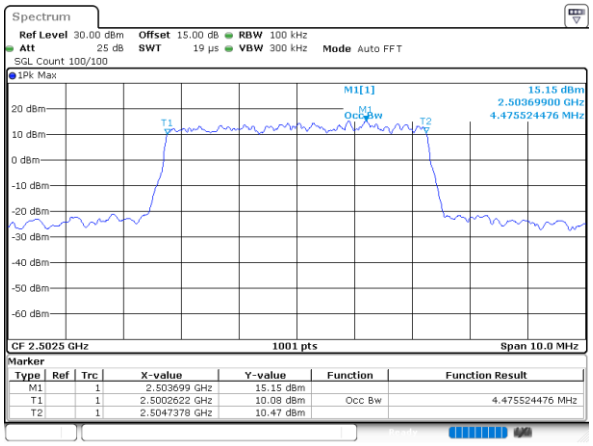


Occupied Bandwidth

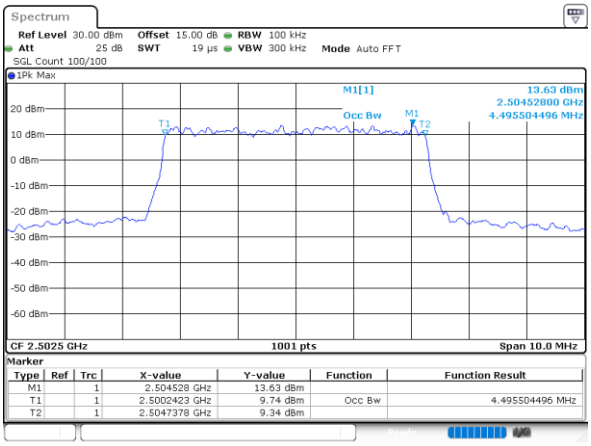
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.50	9.01	9.05	13.43	13.46	17.86	17.86
Middle CH	-	-	-	-	4.49	4.49	8.99	9.05	13.40	13.46	17.86	17.82
Highest CH	-	-	-	-	4.49	4.49	9.05	9.03	13.49	13.43	17.90	17.94
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.03	-	13.46	-	17.90	-
Middle CH	-	-	-	-	4.50	-	9.05	-	13.37	-	17.82	-
Highest CH	-	-	-	-	4.50	-	9.05	-	13.43	-	17.86	-

LTE Band 7

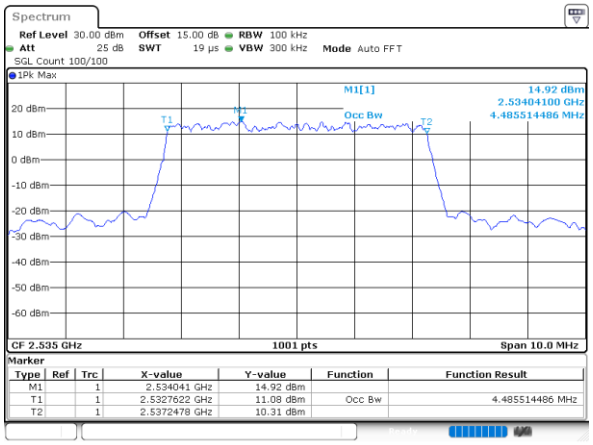
Lowest Channel / 5MHz / QPSK



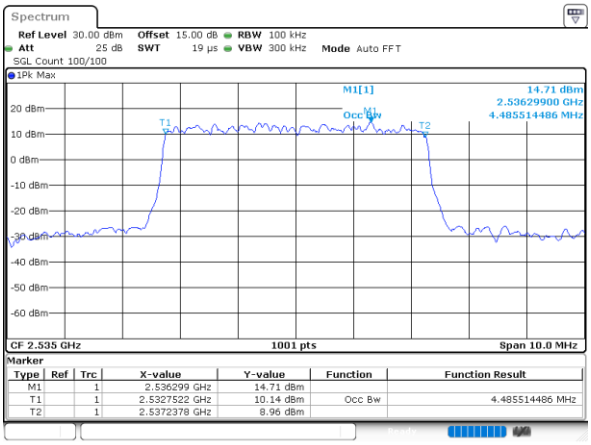
Lowest Channel / 5MHz / 16QAM



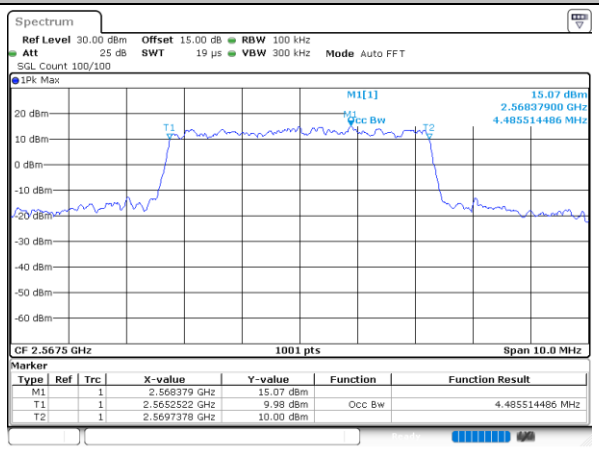
Middle Channel / 5MHz / QPSK



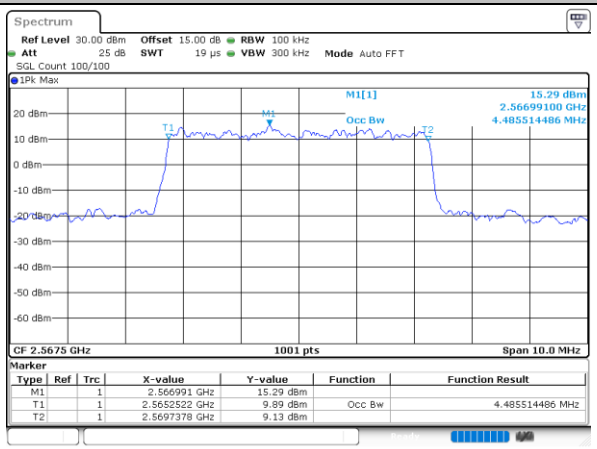
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

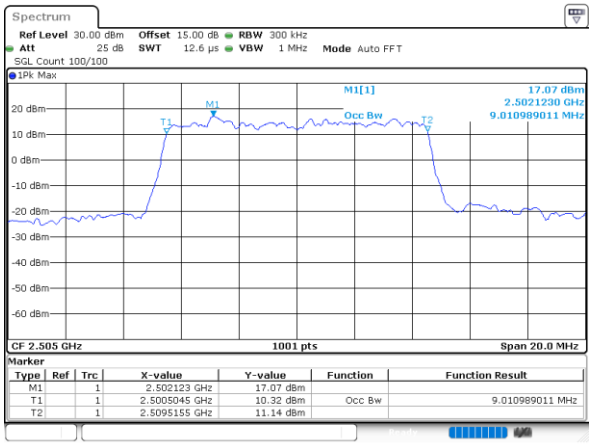


Highest Channel / 5MHz / 16QAM

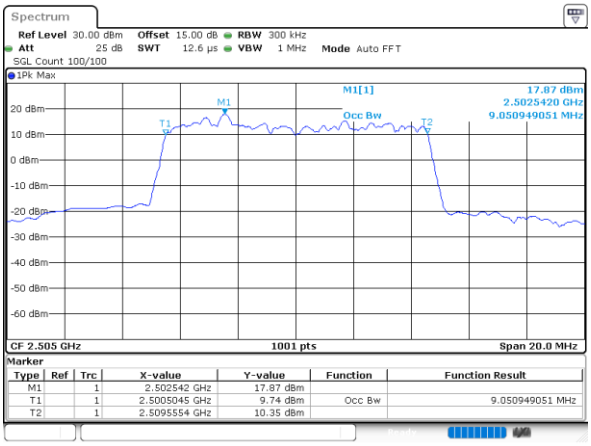


LTE Band 7

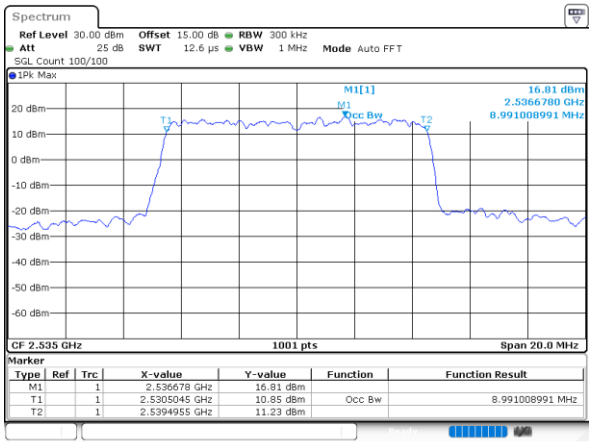
Lowest Channel / 10MHz / QPSK



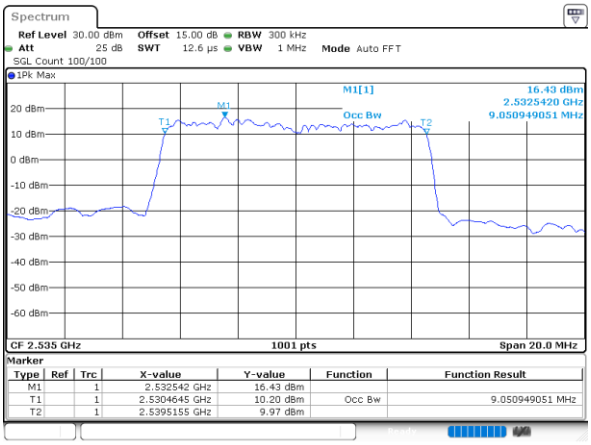
Lowest Channel / 10MHz / 16QAM



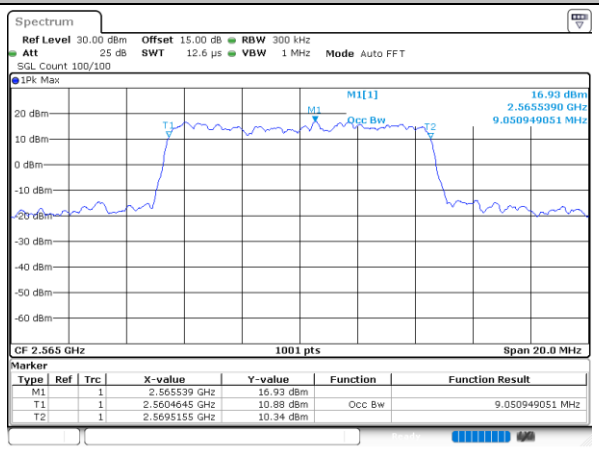
Middle Channel / 10MHz / QPSK



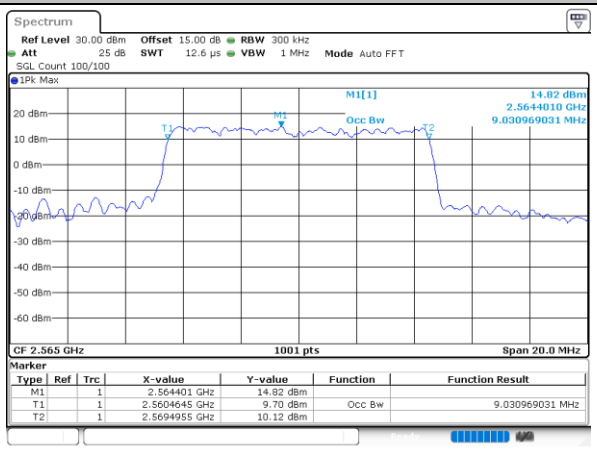
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

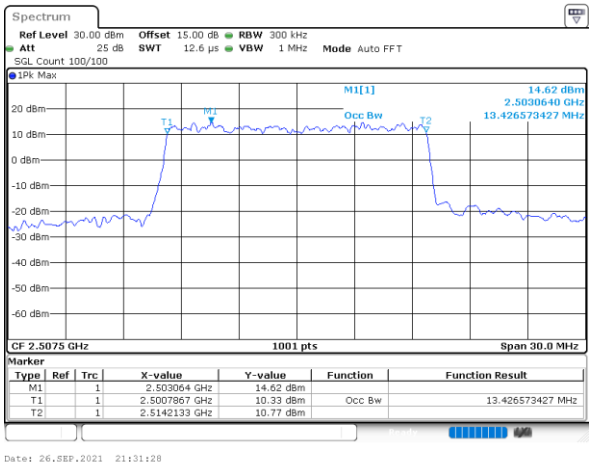


Highest Channel / 10MHz / 16QAM

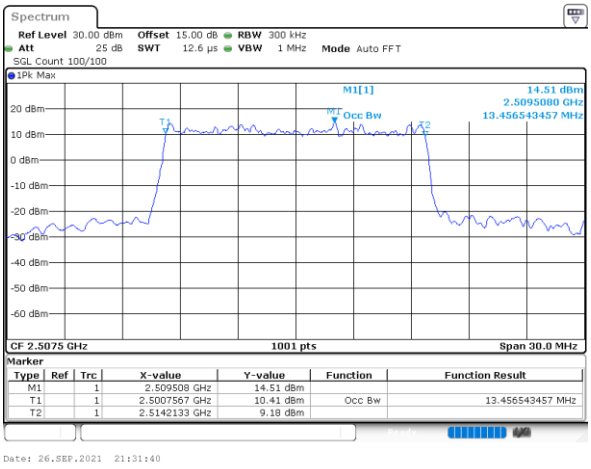


LTE Band 7

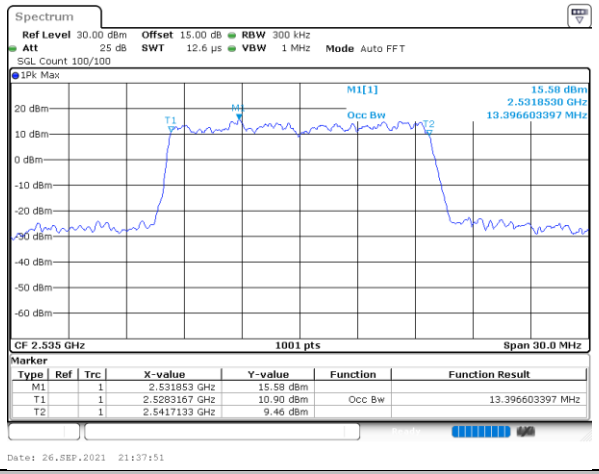
Lowest Channel / 15MHz / QPSK



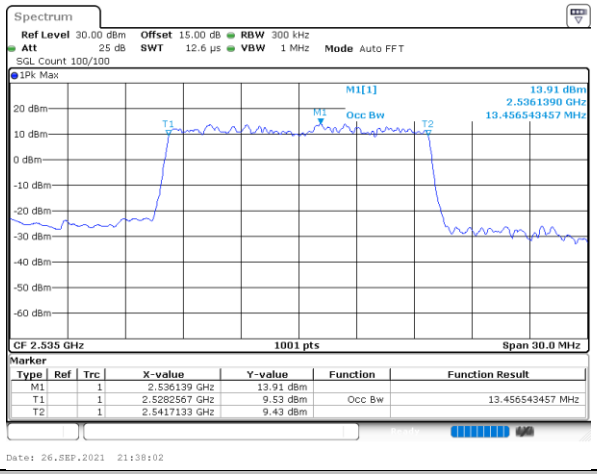
Lowest Channel / 15MHz / 16QAM



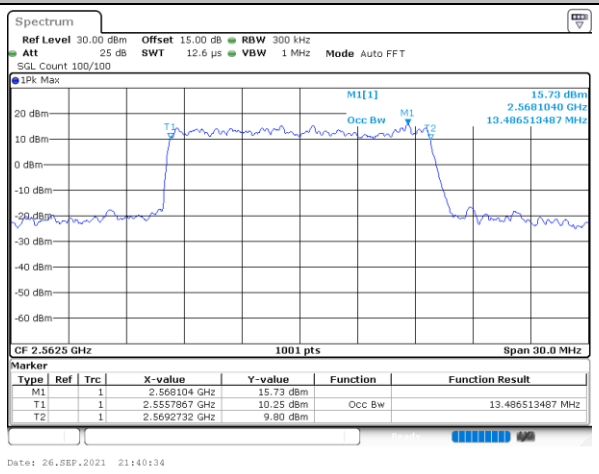
Middle Channel / 15MHz / QPSK



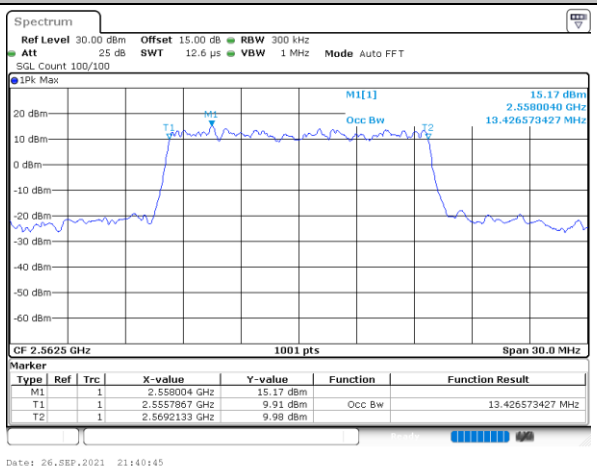
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

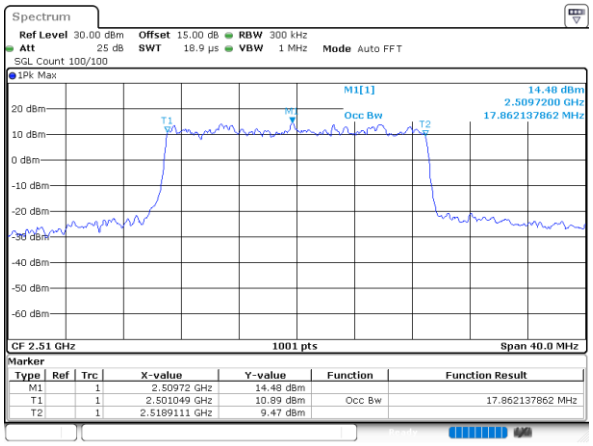


Highest Channel / 15MHz / 16QAM

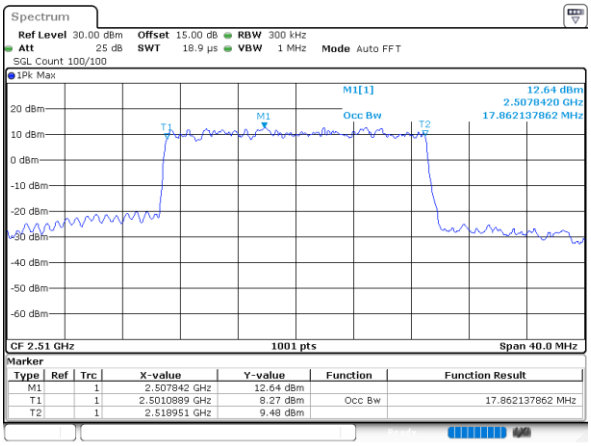


LTE Band 7

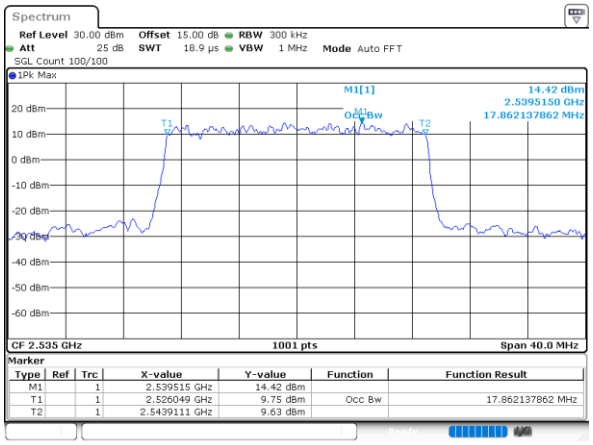
Lowest Channel / 20MHz / QPSK



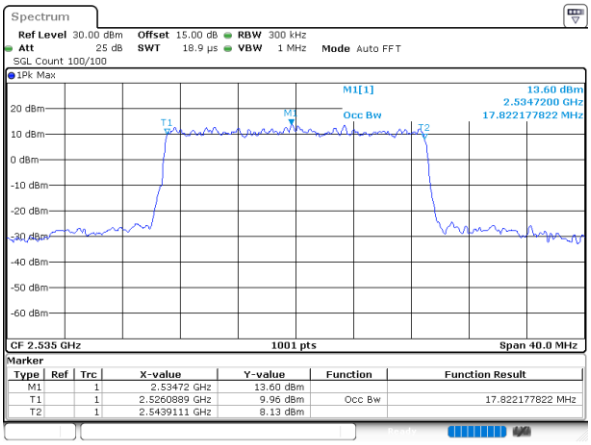
Lowest Channel / 20MHz / 16QAM



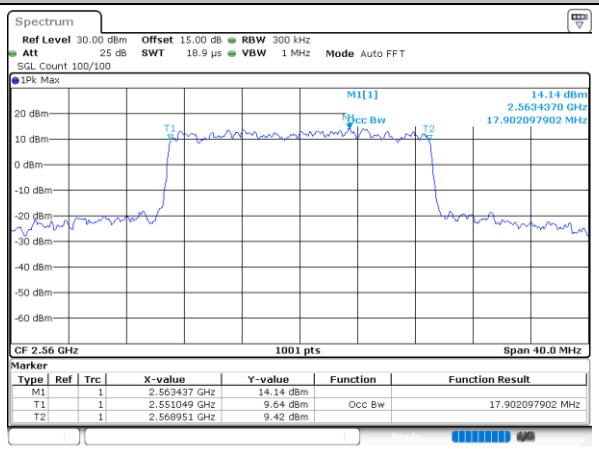
Middle Channel / 20MHz / QPSK



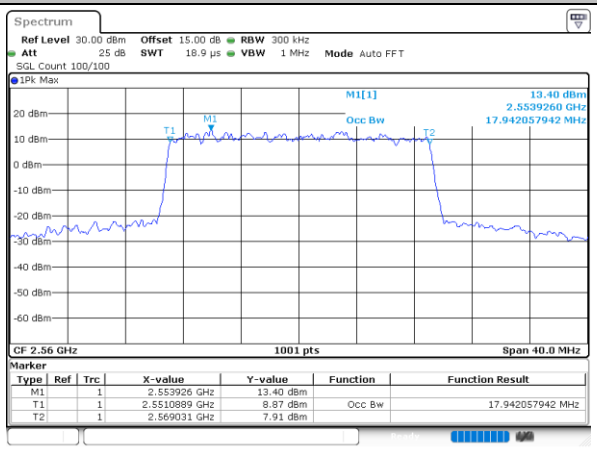
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

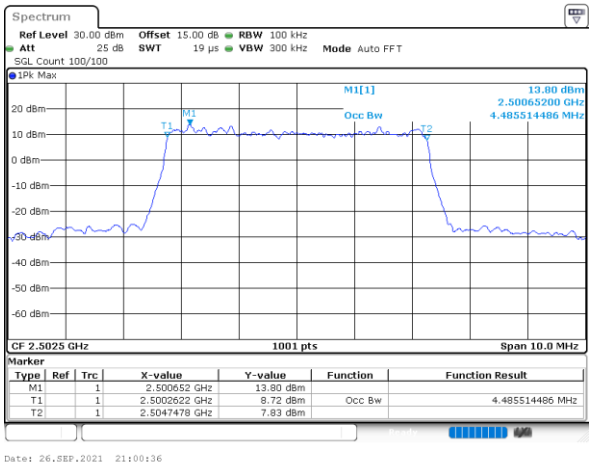


Highest Channel / 20MHz / 16QAM

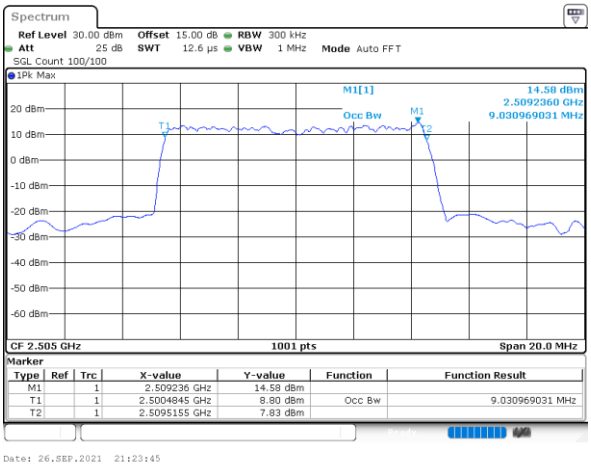


LTE Band 7

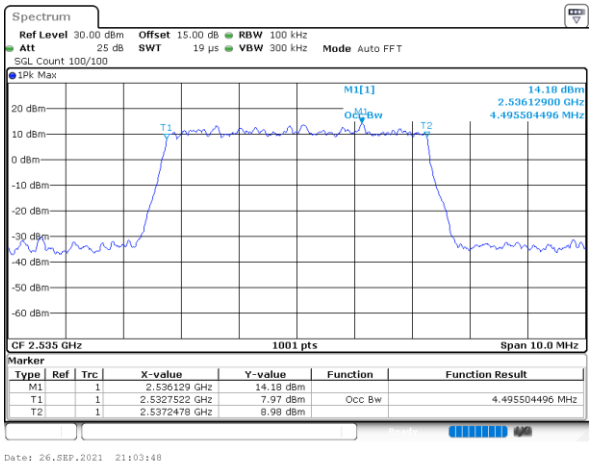
Lowest Channel / 5MHz / 64QAM



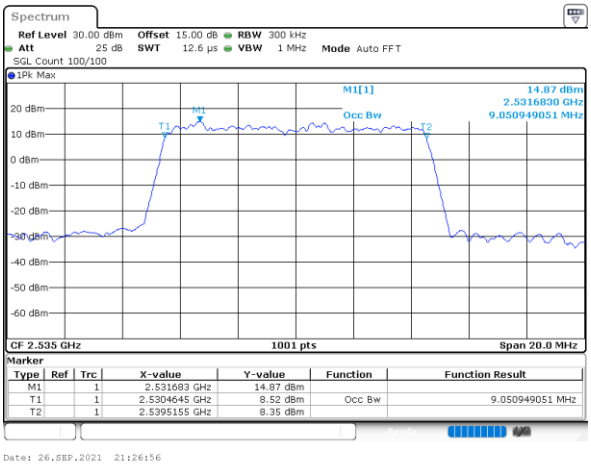
Lowest Channel / 10MHz / 64QAM



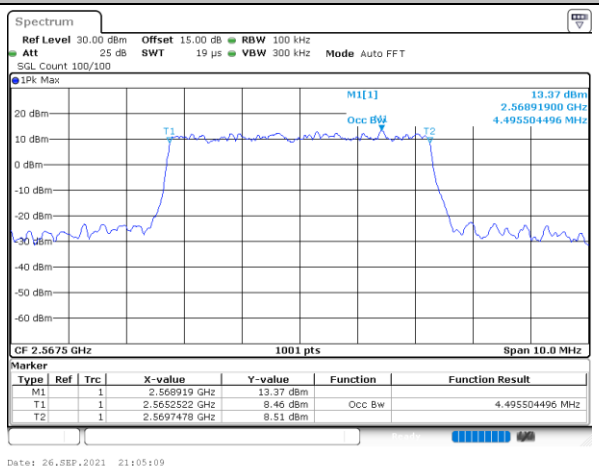
Middle Channel / 5MHz / 64QAM



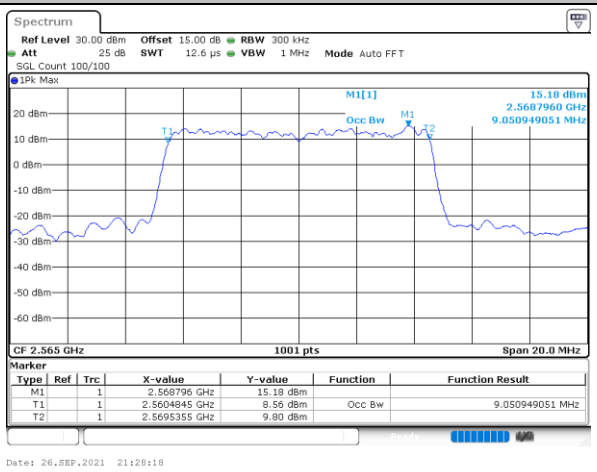
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

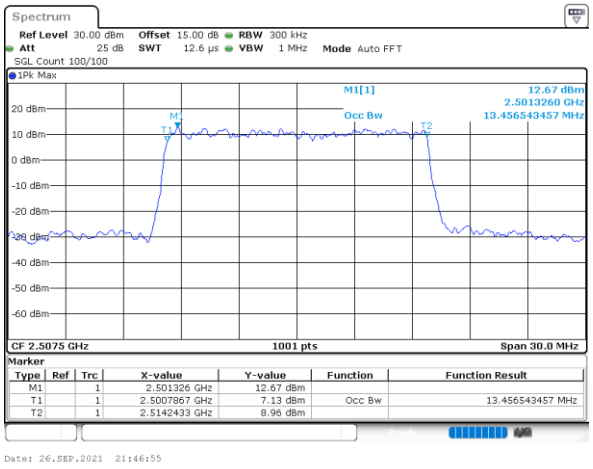


Highest Channel / 10MHz / 64QAM

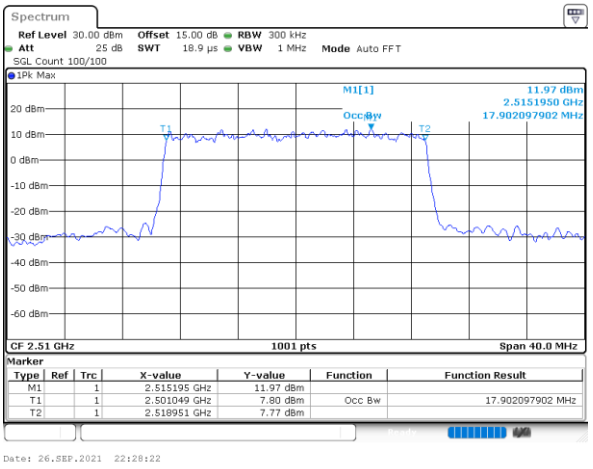


LTE Band 7

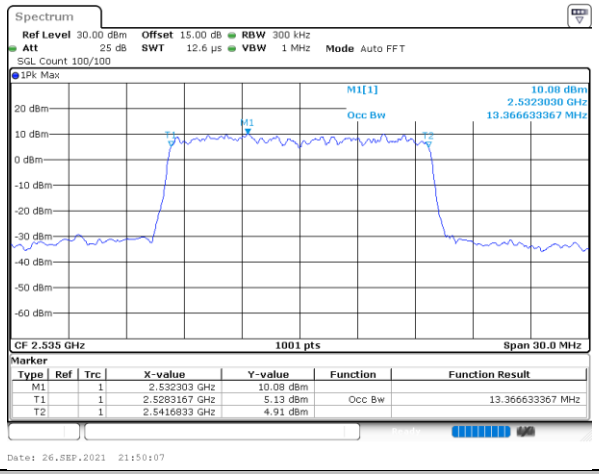
Lowest Channel / 15MHz / 64QAM



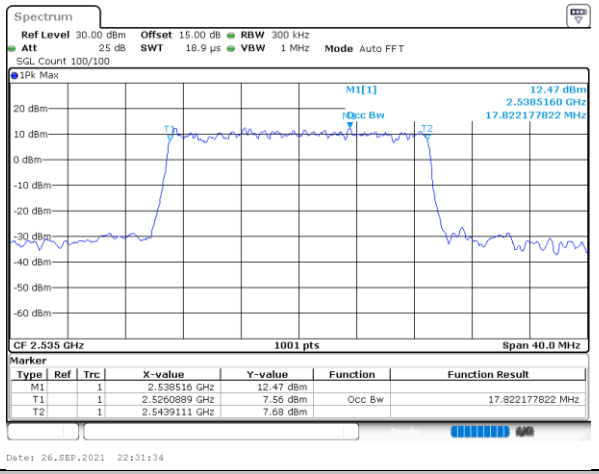
Lowest Channel / 20MHz / 64QAM



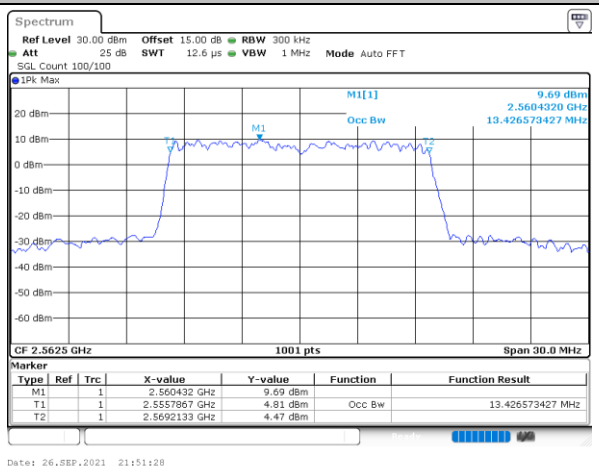
Middle Channel / 15MHz / 64QAM



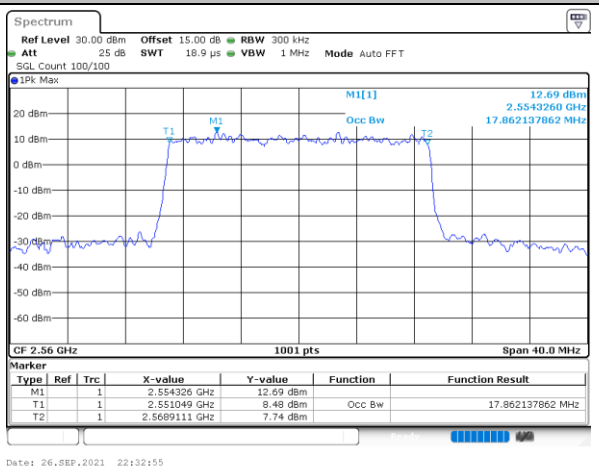
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



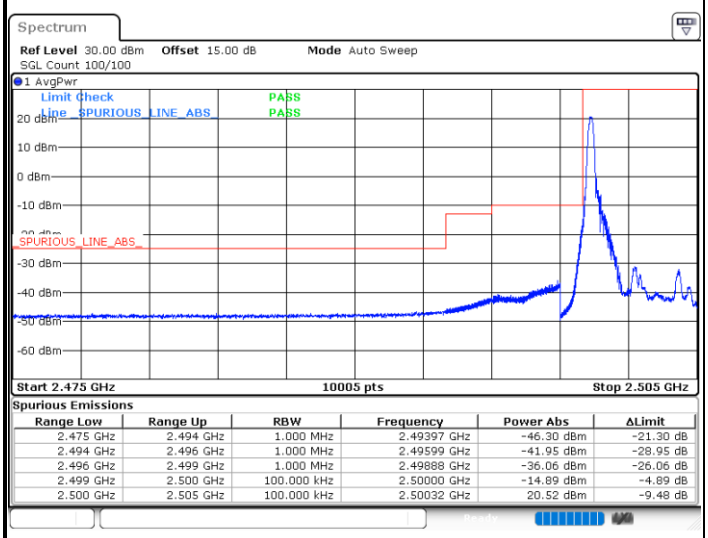
Highest Channel / 20MHz / 64QAM



Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB

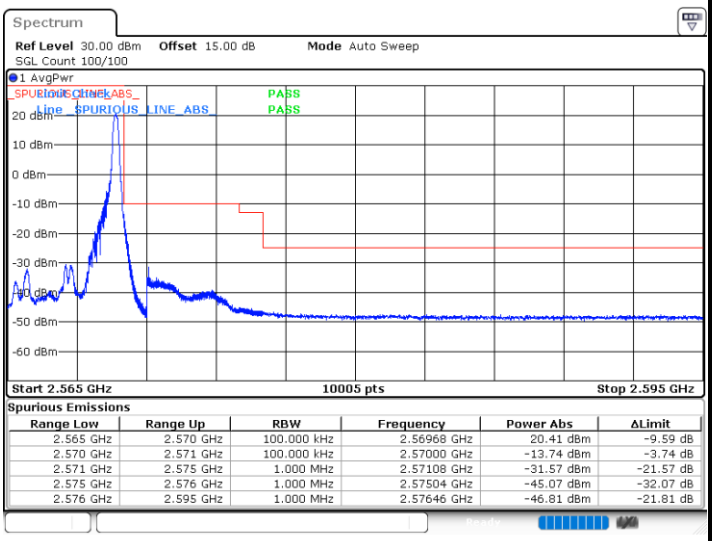


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49397 GHz	-46.30 dBm	-21.30 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49599 GHz	-41.95 dBm	-28.95 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49888 GHz	-36.06 dBm	-26.06 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-14.89 dBm	-4.89 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50032 GHz	20.52 dBm	-9.48 dB

Date: 26.SEP.2021 20:46:39

Highest Band Edge / 1 RB

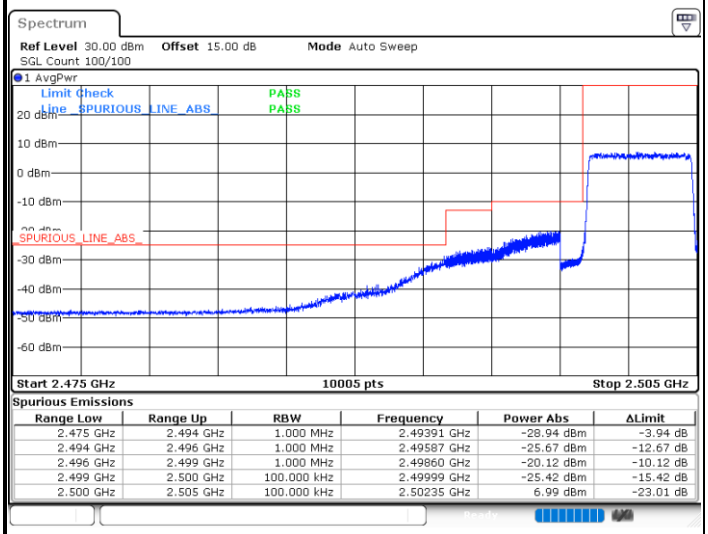


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56968 GHz	20.41 dBm	-9.59 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-13.74 dBm	-3.74 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57108 GHz	-31.57 dBm	-21.57 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57504 GHz	-45.07 dBm	-32.07 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57646 GHz	-46.81 dBm	-21.81 dB

Date: 26.SEP.2021 20:55:44

Lowest Band Edge / Full RB

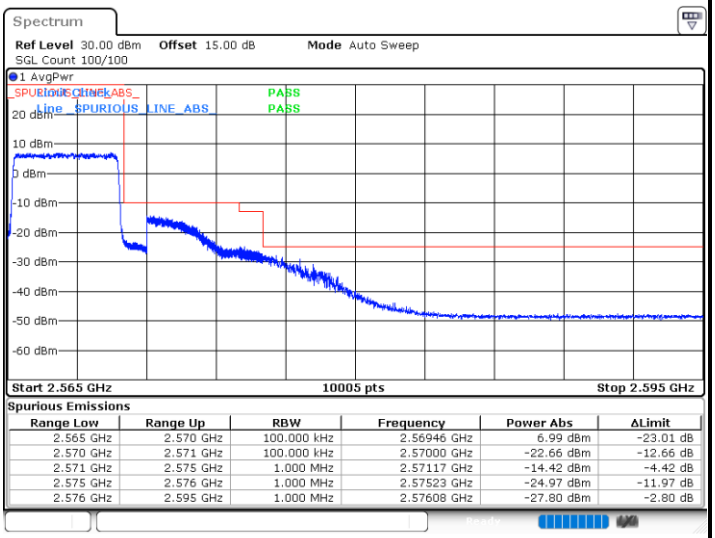


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49391 GHz	-28.94 dBm	-3.94 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49587 GHz	-25.67 dBm	-12.67 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49860 GHz	-20.12 dBm	-10.12 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-25.42 dBm	-15.42 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50235 GHz	6.99 dBm	-23.01 dB

Date: 26.SEP.2021 20:48:28

Highest Band Edge / Full RB



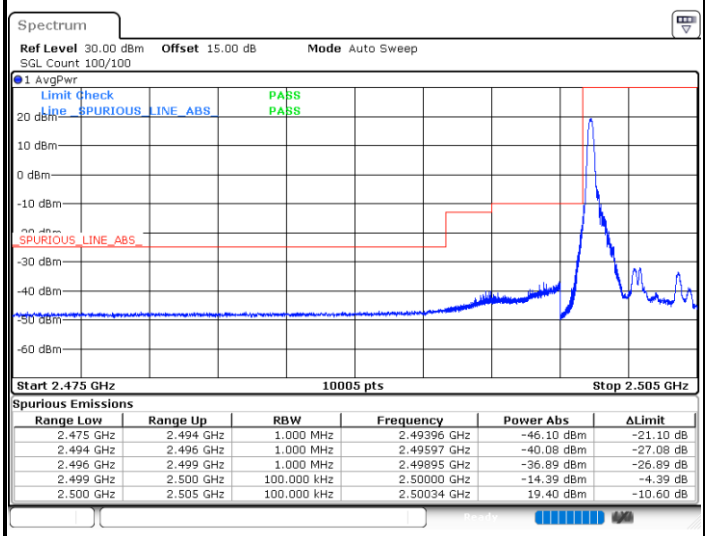
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56946 GHz	6.99 dBm	-23.01 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-22.66 dBm	-12.66 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57117 GHz	-14.42 dBm	-4.42 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57523 GHz	-24.97 dBm	-11.97 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57608 GHz	-27.80 dBm	-2.80 dB

Date: 26.SEP.2021 20:57:33

LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49396 GHz	-46.10 dBm	-21.10 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49597 GHz	-40.08 dBm	-27.08 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49895 GHz	-36.89 dBm	-26.89 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-14.39 dBm	-4.39 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50034 GHz	19.40 dBm	-10.60 dB

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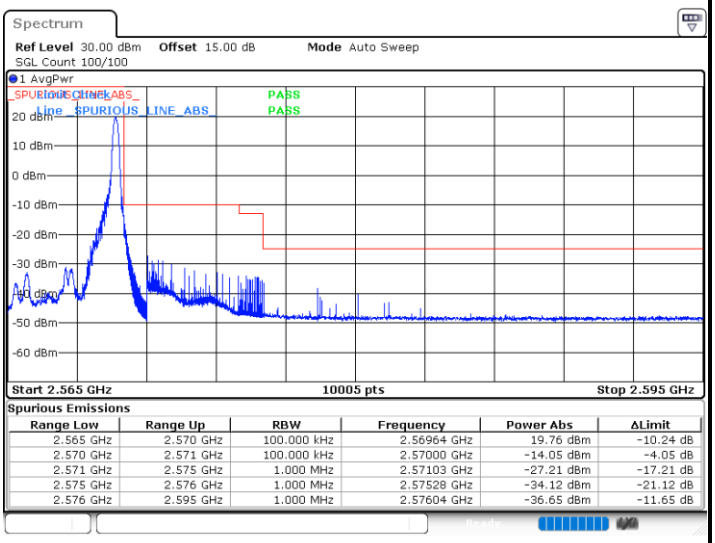
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56964 GHz	19.76 dBm	-10.24 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-14.05 dBm	-4.05 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57103 GHz	-27.21 dBm	-17.21 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57528 GHz	-34.12 dBm	-21.12 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57604 GHz	-36.65 dBm	-11.65 dB

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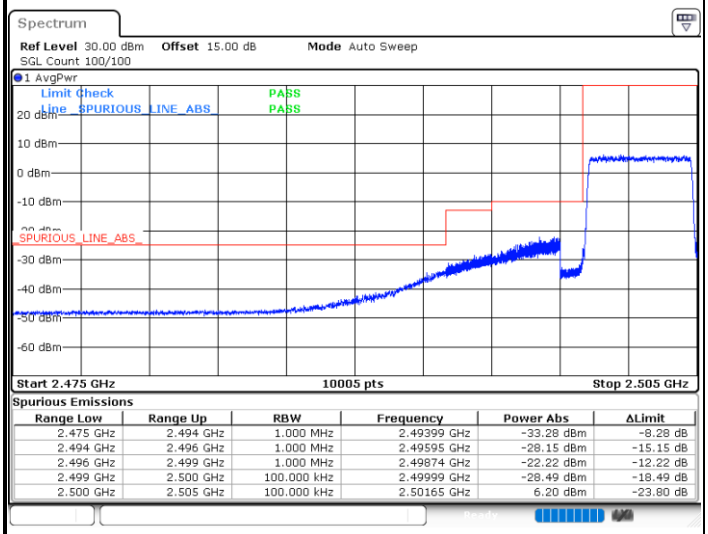
Lowest Band Edge / Full RB

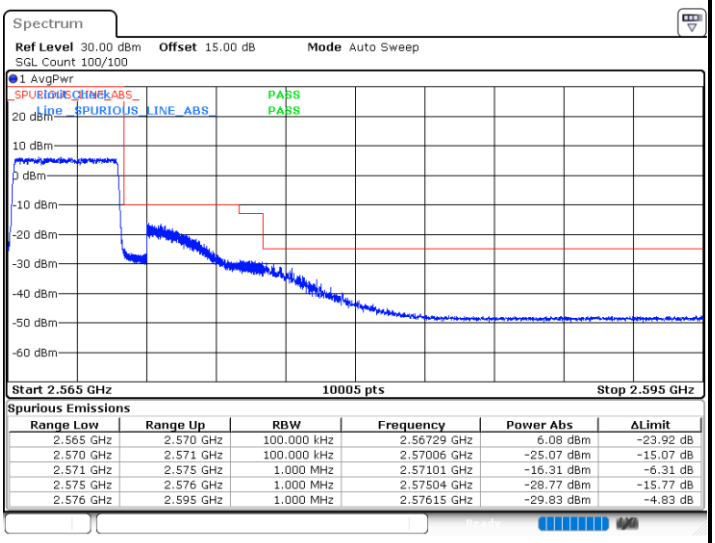


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49399 GHz	-33.28 dBm	-8.28 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49595 GHz	-28.15 dBm	-15.15 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49874 GHz	-22.22 dBm	-12.22 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-28.49 dBm	-18.49 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50165 GHz	6.20 dBm	-23.80 dB

Date: 26.SEP.2021 20:49:23

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56729 GHz	6.08 dBm	-23.92 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57006 GHz	-25.07 dBm	-15.07 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57101 GHz	-16.31 dBm	-6.31 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57504 GHz	-28.77 dBm	-15.77 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57615 GHz	-29.83 dBm	-4.83 dB

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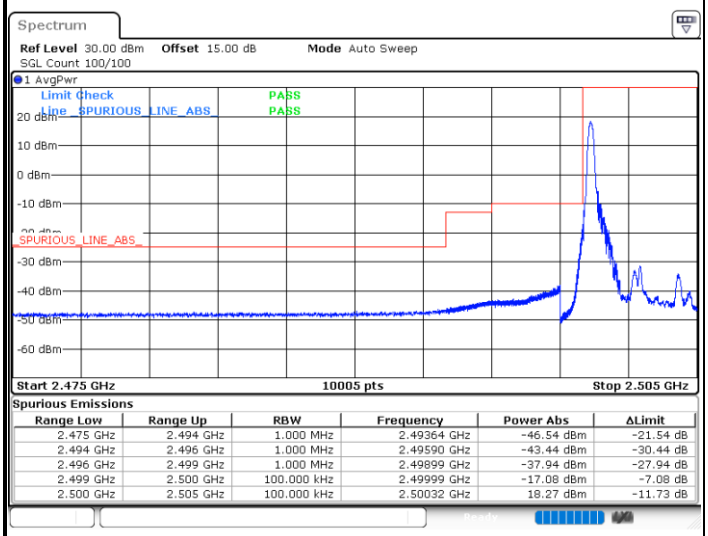
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49364 GHz	-46.54 dBm	-21.54 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49590 GHz	-43.44 dBm	-30.44 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-37.94 dBm	-27.94 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-17.08 dBm	-7.08 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50032 GHz	18.27 dBm	-11.73 dB

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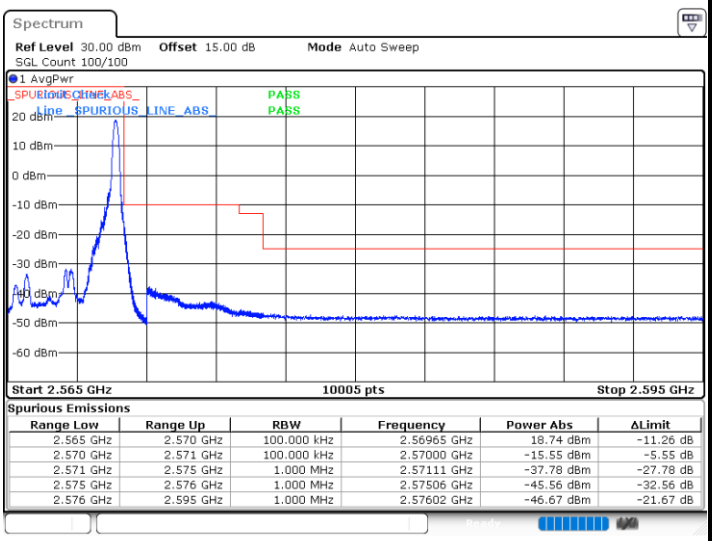
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56965 GHz	18.74 dBm	-11.26 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-15.55 dBm	-5.55 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57111 GHz	-37.78 dBm	-27.78 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57506 GHz	-45.56 dBm	-32.56 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57602 GHz	-46.67 dBm	-21.67 dB

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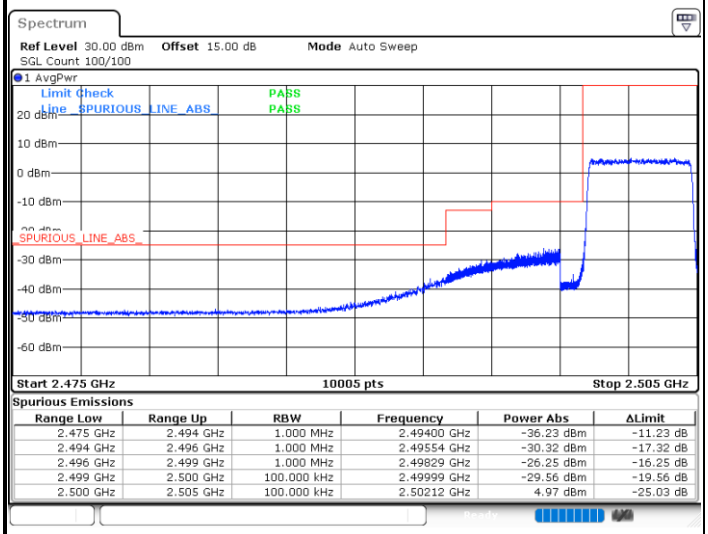
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49400 GHz	-36.23 dBm	-11.23 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49554 GHz	-30.32 dBm	-17.32 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49829 GHz	-26.25 dBm	-16.25 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-29.56 dBm	-19.56 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50212 GHz	4.97 dBm	-25.03 dB

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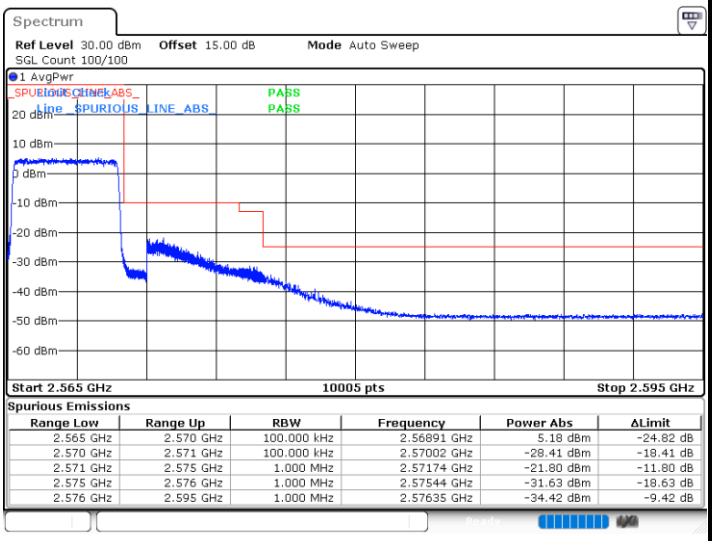
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56891 GHz	5.18 dBm	-24.82 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57002 GHz	-28.41 dBm	-18.41 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57174 GHz	-21.80 dBm	-11.80 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57544 GHz	-31.63 dBm	-18.63 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57635 GHz	-34.42 dBm	-9.42 dB

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