



# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT2335-1  
**FCC ID** : IHDT56AJ6  
**STANDARD** : 47 CFR Part 2, 27(M)  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)  
**TEST DATE(S)** : Oct. 10, 2022 ~ Nov. 16, 2022

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

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

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

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG292106C	Rev. 01	Initial issue of report	Nov. 17, 2022



### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (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	-
3.7	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)	PASS	-
3.8	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log <sub>10</sub> (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 <sub>10</sub> (P[Watts])	PASS	Under limit 27.30 dB at 10372.00 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

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2335-1
FCC ID	IHDT56AJ6
IMEI Code	Conducted: 352691660026675/352691660026683 Radiation: 352691660027434/352691660027442
HW Version	DVT2
SW Version	TTP33.24
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. 1> LTE Band 38 : 23.25 dBm LTE Band 38C : 23.65 dBm LTE Band 41 : 23.32 dBm LTE Band 41C : 23.85 dBm <Ant. 5> LTE Band 7 : 22.72 dBm LTE Band 7C : 23.18 dBm; LTE Band 38 : 22.95 dBm
Antenna Gain	<Ant. 1>



	LTE Band 38 : -2.6 dBi LTE Band 41 : -2.6 dBi <b>&lt;Ant. 5&gt;</b> LTE Band 7 : 1 dBi LTE Band 38 : 1 dBi
<b>Type of Modulation</b>	QPSK / 16QAM / 64QAM / 256QAM

**Note:**

1. The maximum EIRP is calculated from max output power and max antenna gain, so only the maximum EIRP of Antenna 1 for LTE Band 41/38C/41C and Antenna 5 for LTE Band 7/38/7C are shown in the report.
2. LTE B38 of Antenna 5 only supports EN-DC mode.

### 1.5 Modification of EUT

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

### 1.6 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(AOHAI)	Model Name	MC-101
AC Adapter 1(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-102
AC Adapter 1(UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-103
AC Adapter 1(AU)	Brand Name	Motorola(AOHAI)	Model Name	MC-105
AC Adapter 2(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-101
AC Adapter 2(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-102
AC Adapter 2(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-103
AC Adapter 2(AU)	Brand Name	Motorola(Chenyang)	Model Name	MC-105
AC Adapter 3(US)	Brand Name	Motorola(Salcomp)	Model Name	MC-101
AC Adapter 3(EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-102
AC Adapter 3(UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-103
AC Adapter 3(AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-105
AC Adapter 4(US)	Brand Name	Motorola(Salcomp)	Model Name	MC-201L
AC Adapter 4(EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-202L
AC Adapter 4(AR)	Brand Name	Motorola(Salcomp)	Model Name	MC-206L
AC Adapter 4(BR)	Brand Name	Motorola(Salcomp)	Model Name	MC-207L
AC Adapter 4(CHILE)	Brand Name	Motorola(Salcomp)	Model Name	MC-209L
AC Adapter 5(US)	Brand Name	Motorola(AOHAI)	Model Name	MC-201L
AC Adapter 5(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-202L
AC Adapter 5(AR)	Brand Name	Motorola(AOHAI)	Model Name	MC-206L
AC Adapter 6(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-207
Battery 1	Brand Name	Motorola(ATL)	Model Name	NH50
Battery 2	Brand Name	Motorola(SUNWODA)	Model Name	NH50
Earphone 1	Brand Name	Motorola(New Leader)	Model Name	MH202
Earphone 2	Brand Name	Motorola(Lyand)	Model Name	MH202
USB Cable 1	Brand Name	Motorola(kawakami)	Model Name	S928D67706
USB Cable 2	Brand Name	Motorola(Beauford)	Model Name	S928D70140



### 1.7 Maximum EIRP Power and Emission Designator

LTE Band 7		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	2510.0 ~ 2560.0	0.2355	17M9G7D	0.2123	17M9W7D
LTE Band 38		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	2580.0 ~ 2610.0	0.2483	17M9G7D	0.1866	17M9W7D
LTE Band 41		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	2506.0 ~ 2680.0	0.1180	17M9G7D	0.1052	17M9W7D
LTE Band 7 CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20MHz+20MHz		0.2618	37M9G7D	0.2280	37M9W7D
LTE Band 38 CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20MHz+20MHz		0.1274	37M9G7D	0.1012	37M8W7D
LTE Band 41 CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20MHz+20MHz		0.1334	37M9G7D	0.1091	37M8W7D

**Note:**

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



### 1.8 Testing Location

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

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	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		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-KS	CN1257	314309

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

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

### 1.9 Test Software

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



## 1.10 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(Z plane).

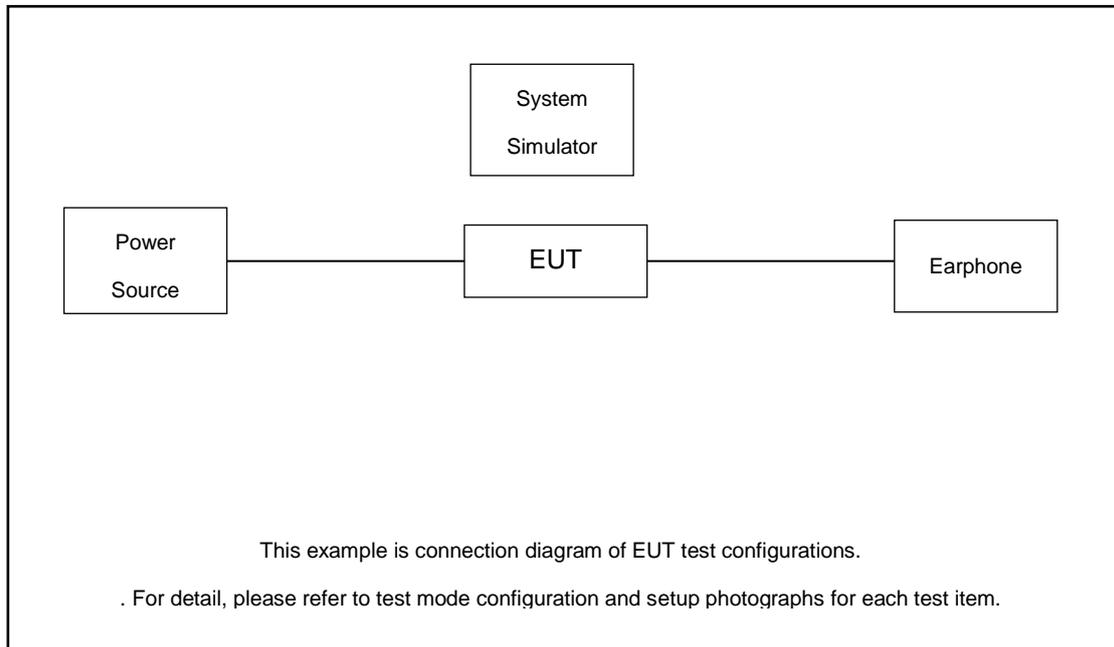
Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel			
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H	
Max. Output Power	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	
Peak-to-Average Ratio	7	-	-				v	v	v	v	v			v		v		
	38	-	-				v	v	v	v	v			v		v		
	41	-	-				v	v	v	v	v			v		v		
26dB and 99% Bandwidth	7	-	-				v	v	v					v		v		
	38	-	-				v	v	v					v		v		
	41	-	-				v	v	v					v		v		
Conducted Band Edge	7	-	-	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	
	41	-	-	v	v	v	v	v	v	v	v	v		v	v		v	
Conducted Spurious Emission	7	-	-	v	v	v	v	v				v			v	v	v	
	38	-	-	v	v	v	v	v				v			v	v	v	
	41	-	-	v	v	v	v	v				v			v	v	v	
Frequency Stability	7	-	-		v			v						v		v		
	38	-	-		v			v						v		v		
	41	-	-		v			v						v		v		
E.I.R.P	7	-	-	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	
	41	-	-	v	v	v	v	v	v	v	v	v			v	v	v	
Radiated Spurious Emission	7	Worst Case															v	
	38	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.

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	16Q AM	64 QAM	256 QAM	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
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v	v			v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
26dB and 99% Bandwidth	7C_CA	v					-	-			-	v	v					v		v	
	41C_CA	v										v	v					v		v	
Conducted Band Edge	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	v		v	v	v	
	41C_CA	v	v	v	v	v	v	v	v	v	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
	41C_CA	v	v	v	v	v	v	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	v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v	v			v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	7C_CA	Worst Case																			v
	41C_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



## 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	MT8820C	N/A	N/A	Unshielded, 1.8 m

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss.

*Offset = RF cable loss.*

Following shows an offset computation example with cable loss 6.0dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 6.0 \text{ (dB)} \end{aligned}$$



### 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

LTE Band 41C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0



LTE Band 41C_CA Channel and Frequency List					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7

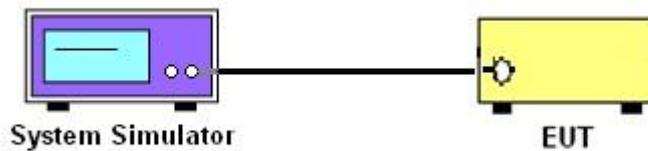
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

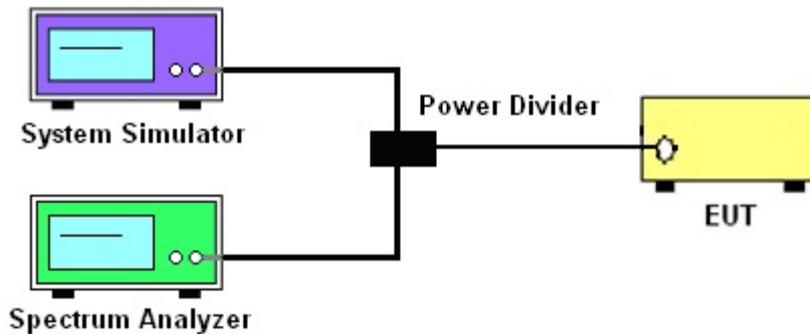
See list of measuring instruments of this test report.

#### 3.2 Test Setup

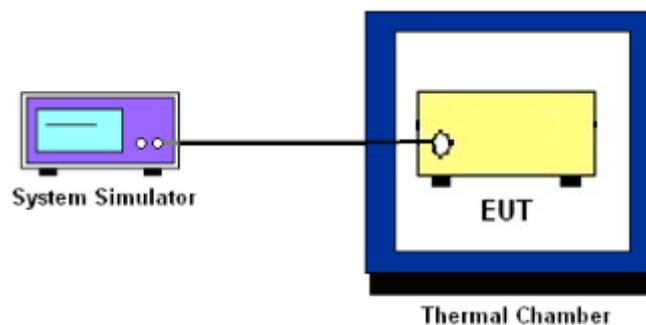
##### 3.2.1 Conducted Output Power



##### 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 LTE 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  $\geq$  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  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB) = -13dBm.

9. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.
10. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.



### 3.8 Conducted Spurious Emission

#### 3.8.1 Description of Conducted Spurious Emission Measurement

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 10<sup>th</sup> 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. For Band 7, 38, 41

The limit line is derived from  $55 + 10\log(P)$ 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  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) 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  $-30^{\circ}\text{C}$  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  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

### 3.9.3 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  $20\pm 5^{\circ}\text{C}$  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.

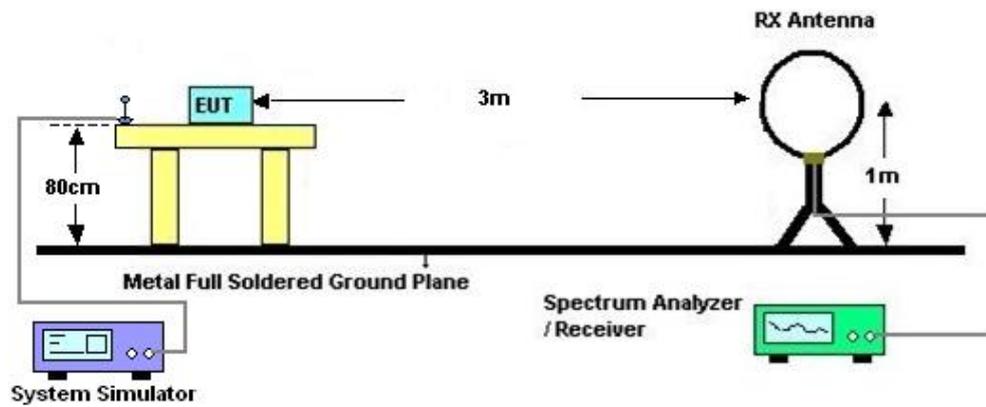
## 4 Radiated Test Items

### 4.1 Measuring Instruments

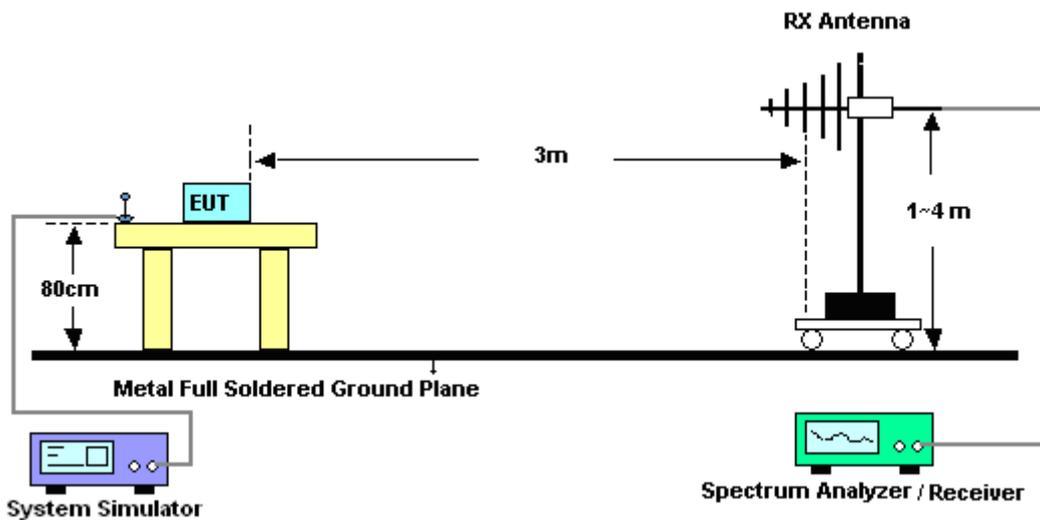
See list of measuring instruments of this test report.

### 4.2 Test Setup

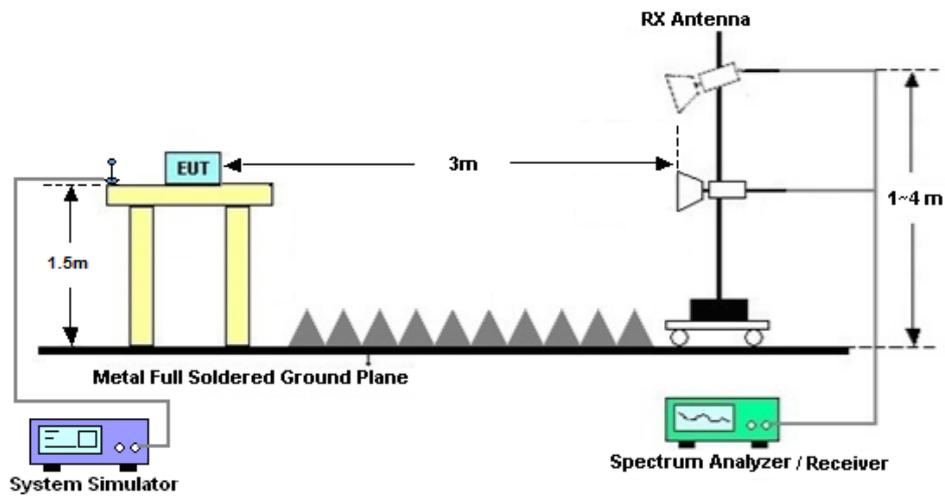
#### 4.2.1 For radiated test below 30MHz



#### 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.

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. For Band 7, 38, 41:  
The limit line is derived from  $55 + 10\log(P)$ 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	101040	10Hz~40GHz	Oct. 12, 2021	Oct. 10, 2022~Nov. 16, 2022	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 25, 2022	Oct. 10, 2022~Nov. 16, 2022	Aug. 24, 2023	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Oct. 10, 2022~Nov. 16, 2022	Jul. 14, 2023	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 22, 2021	Oct. 12, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2022	Oct. 12, 2022	Jul. 06, 2023	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Oct. 12, 2022	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Oct. 22, 2021	Oct. 12, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2022	Oct. 12, 2022	Jul. 06, 2023	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 07, 2022	Oct. 12, 2022	Jul. 06, 2023	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22, 2021	Oct. 12, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Oct. 12, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Oct. 22, 2021	Oct. 12, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Oct. 22, 2021	Oct. 12, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Oct. 12, 2022	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 12, 2022	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 12, 2022	NCR	Radiation (03CH04-SZ)

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 Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.56 dB
Conducted Emissions	±0.92 dB
Occupied Channel Bandwidth	±0.03 %

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1 dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9 dB
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# 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	22.45	22.72	22.62
20	QPSK	1	49	22.31	22.62	22.53
20	QPSK	1	99	22.27	22.58	22.47
20	QPSK	50	0	21.67	21.92	21.62
20	QPSK	50	24	21.54	21.78	21.56
20	QPSK	50	50	21.59	21.81	21.53
20	QPSK	100	0	21.63	21.82	21.75
20	16QAM	1	0	22.01	22.27	22.16
20	16QAM	1	49	21.92	22.13	22.09
20	16QAM	1	99	21.90	22.21	22.03
20	16QAM	50	0	20.87	20.91	20.66
20	16QAM	50	24	20.74	20.85	20.52
20	16QAM	50	50	20.79	20.84	20.56
20	16QAM	100	0	20.83	20.94	20.91
20	64QAM	1	0	20.55	20.74	20.48
20	64QAM	1	49	20.43	20.69	20.36
20	64QAM	1	99	20.50	20.59	20.33
20	64QAM	50	0	19.75	19.94	19.68
20	64QAM	50	24	19.61	19.84	19.55
20	64QAM	50	50	19.51	19.80	19.50
20	64QAM	100	0	19.73	19.90	19.86
20	256QAM	1	0	17.46	17.67	17.65
20	256QAM	1	49	17.27	17.61	17.52
20	256QAM	1	99	17.25	17.56	17.44
20	256QAM	50	0	17.43	17.72	17.67
20	256QAM	50	24	17.32	17.59	17.49
20	256QAM	50	50	17.31	17.53	17.50
20	256QAM	100	0	17.26	17.44	17.35
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	22.31	22.57	22.51
15	QPSK	1	37	22.22	22.51	22.47
15	QPSK	1	74	22.16	22.45	22.40
15	QPSK	36	0	21.53	21.80	21.55
15	QPSK	36	20	21.42	21.73	21.46
15	QPSK	36	39	21.49	21.74	21.43
15	QPSK	75	0	21.57	21.68	21.61
15	16QAM	1	0	21.92	22.14	22.06



15	16QAM	1	37	21.85	22.03	21.97
15	16QAM	1	74	21.82	22.14	21.90
15	16QAM	36	0	20.73	20.83	20.54
15	16QAM	36	20	20.63	20.75	20.42
15	16QAM	36	39	20.66	20.77	20.46
15	16QAM	75	0	20.75	20.88	20.80
15	64QAM	1	0	20.43	20.60	20.40
15	64QAM	1	37	20.37	20.54	20.27
15	64QAM	1	74	20.43	20.53	20.26
15	64QAM	36	0	19.60	19.84	19.54
15	64QAM	36	20	19.50	19.75	19.45
15	64QAM	36	39	19.40	19.68	19.39
15	64QAM	75	0	19.65	19.79	19.71
15	256QAM	1	0	17.50	17.73	17.66
15	256QAM	1	37	17.35	17.62	17.55
15	256QAM	1	74	17.30	17.59	17.50
15	256QAM	36	0	17.47	17.74	17.67
15	256QAM	36	20	17.29	17.57	17.58
15	256QAM	36	39	17.27	17.55	17.48
15	256QAM	75	0	17.29	17.57	17.46
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	22.39	22.59	22.53
10	QPSK	1	25	22.23	22.52	22.47
10	QPSK	1	49	22.16	22.45	22.37
10	QPSK	25	0	21.54	21.85	21.55
10	QPSK	25	12	21.46	21.71	21.49
10	QPSK	25	25	21.54	21.71	21.40
10	QPSK	50	0	21.57	21.73	21.63
10	16QAM	1	0	21.94	22.22	22.08
10	16QAM	1	25	21.80	21.99	22.02
10	16QAM	1	49	21.85	22.15	21.89
10	16QAM	25	0	20.74	20.85	20.54
10	16QAM	25	12	20.63	20.74	20.39
10	16QAM	25	25	20.66	20.71	20.50
10	16QAM	50	0	20.70	20.80	20.79
10	64QAM	1	0	20.46	20.65	20.42
10	64QAM	1	25	20.38	20.63	20.29
10	64QAM	1	49	20.35	20.45	20.27
10	64QAM	25	0	19.61	19.79	19.54
10	64QAM	25	12	19.53	19.75	19.45
10	64QAM	25	25	19.40	19.72	19.38
10	64QAM	50	0	19.59	19.80	19.75
10	256QAM	1	0	17.37	17.63	17.50
10	256QAM	1	25	17.21	17.53	17.47
10	256QAM	1	49	17.14	17.42	17.37
10	256QAM	25	0	17.42	17.57	17.52
10	256QAM	25	12	17.27	17.51	17.47
10	256QAM	25	25	17.13	17.44	17.34
10	256QAM	50	0	17.43	17.57	17.49



Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	22.30	22.59	22.53
5	QPSK	1	12	22.17	22.49	22.39
5	QPSK	1	24	22.20	22.46	22.38
5	QPSK	12	0	21.54	21.83	21.51
5	QPSK	12	7	21.42	21.67	21.48
5	QPSK	12	13	21.53	21.71	21.48
5	QPSK	25	0	21.57	21.75	21.67
5	16QAM	1	0	21.89	22.19	22.10
5	16QAM	1	12	21.85	22.00	22.01
5	16QAM	1	24	21.81	22.10	21.92
5	16QAM	12	0	20.78	20.81	20.58
5	16QAM	12	7	20.65	20.73	20.46
5	16QAM	12	13	20.66	20.76	20.42
5	16QAM	25	0	20.78	20.86	20.76
5	64QAM	1	0	20.49	20.62	20.34
5	64QAM	1	12	20.33	20.55	20.28
5	64QAM	1	24	20.38	20.47	20.28
5	64QAM	12	0	19.67	19.80	19.58
5	64QAM	12	7	19.48	19.73	19.46
5	64QAM	12	13	19.40	19.73	19.42
5	64QAM	25	0	19.61	19.76	19.73
5	256QAM	1	0	17.52	17.64	17.55
5	256QAM	1	12	17.37	17.51	17.34
5	256QAM	1	24	17.20	17.45	17.43
5	256QAM	12	0	17.29	17.62	17.56
5	256QAM	12	7	17.16	17.47	17.39
5	256QAM	12	13	17.18	17.45	17.37
5	256QAM	25	0	17.25	17.58	17.51



LTE Band 38(Ant.1):

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	23.08	23.25	23.17
20	QPSK	1	49	23.12	23.18	23.15
20	QPSK	1	99	23.03	23.08	23.06
20	QPSK	50	0	22.21	22.26	22.20
20	QPSK	50	24	22.01	22.15	22.10
20	QPSK	50	50	22.02	22.11	22.04
20	QPSK	100	0	22.21	22.41	22.27
20	16QAM	1	0	22.21	22.36	22.28
20	16QAM	1	49	22.10	22.23	22.13
20	16QAM	1	99	22.12	22.19	22.14
20	16QAM	50	0	21.54	21.54	21.46
20	16QAM	50	24	21.40	21.47	21.32
20	16QAM	50	50	21.36	21.45	21.31
20	16QAM	100	0	21.39	21.41	21.42
20	64QAM	1	0	21.36	21.17	21.13
20	64QAM	1	49	21.02	21.13	21.01
20	64QAM	1	99	21.04	21.15	21.08
20	64QAM	50	0	20.43	20.56	20.54
20	64QAM	50	24	20.38	20.52	20.43
20	64QAM	50	50	20.42	20.50	20.45
20	64QAM	100	0	20.41	20.48	20.37
20	256QAM	1	0	18.37	18.42	18.40
20	256QAM	1	49	18.24	18.31	18.16
20	256QAM	1	99	18.23	18.24	18.14
20	256QAM	50	0	18.36	18.36	18.40
20	256QAM	50	24	18.20	18.35	18.18
20	256QAM	50	50	18.22	18.28	18.18
20	256QAM	100	0	18.25	18.29	18.17
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	23.17	23.18	23.13
15	QPSK	1	37	23.10	23.11	23.09
15	QPSK	1	74	23.05	23.13	23.09
15	QPSK	36	0	22.06	22.13	22.12
15	QPSK	36	20	22.02	22.06	22.07
15	QPSK	36	39	22.11	22.15	22.13
15	QPSK	75	0	22.09	22.30	22.20
15	16QAM	1	0	22.10	22.24	22.18
15	16QAM	1	37	22.05	22.11	22.07
15	16QAM	1	74	22.03	22.13	22.04
15	16QAM	36	0	21.47	21.43	21.38
15	16QAM	36	20	21.29	21.34	21.26
15	16QAM	36	39	21.23	21.35	21.22
15	16QAM	75	0	21.28	21.29	21.34



15	64QAM	1	0	21.22	21.07	21.07
15	64QAM	1	37	21.03	21.09	21.01
15	64QAM	1	74	21.08	21.11	21.06
15	64QAM	36	0	20.29	20.43	20.43
15	64QAM	36	20	20.31	20.37	20.37
15	64QAM	36	39	20.33	20.44	20.33
15	64QAM	75	0	20.32	20.40	20.29
15	256QAM	1	0	18.29	18.28	18.26
15	256QAM	1	37	18.17	18.21	18.03
15	256QAM	1	74	18.08	18.18	18.00
15	256QAM	36	0	18.22	18.30	18.31
15	256QAM	36	20	18.08	18.25	18.05
15	256QAM	36	39	18.13	18.14	18.06
15	256QAM	75	0	18.17	18.19	18.05
Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	23.13	23.19	23.15
10	QPSK	1	25	23.10	23.12	23.13
10	QPSK	1	49	23.08	23.14	23.02
10	QPSK	25	0	22.14	22.20	22.10
10	QPSK	25	12	22.06	22.08	22.07
10	QPSK	25	25	22.01	22.06	22.00
10	QPSK	50	0	22.08	22.36	22.21
10	16QAM	1	0	22.10	22.30	22.16
10	16QAM	1	25	22.05	22.12	22.04
10	16QAM	1	49	22.01	22.07	22.00
10	16QAM	25	0	21.47	21.44	21.36
10	16QAM	25	12	21.34	21.34	21.26
10	16QAM	25	25	21.26	21.40	21.17
10	16QAM	50	0	21.32	21.33	21.36
10	64QAM	1	0	21.27	21.35	21.27
10	64QAM	1	25	21.28	21.33	21.23
10	64QAM	1	49	21.24	21.31	21.21
10	64QAM	25	0	20.33	20.46	20.40
10	64QAM	25	12	20.26	20.39	20.35
10	64QAM	25	25	20.28	20.41	20.33
10	64QAM	50	0	20.30	20.36	20.31
10	256QAM	1	0	18.29	18.35	18.27
10	256QAM	1	25	18.10	18.20	18.10
10	256QAM	1	49	18.10	18.18	18.03
10	256QAM	25	0	18.26	18.29	18.27
10	256QAM	25	12	18.09	18.26	18.03
10	256QAM	25	25	18.14	18.23	18.12
10	256QAM	50	0	18.18	18.21	18.03
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	23.06	23.14	23.07
5	QPSK	1	12	23.05	23.11	23.00
5	QPSK	1	24	23.04	23.09	23.08
5	QPSK	12	0	22.07	22.11	22.07



5	QPSK	12	7	22.05	22.09	22.06
5	QPSK	12	13	22.07	22.13	22.08
5	QPSK	25	0	22.12	22.24	22.11
5	16QAM	1	0	22.01	22.15	22.02
5	16QAM	1	12	22.03	22.17	22.15
5	16QAM	1	24	22.09	22.16	22.00
5	16QAM	12	0	21.40	21.29	21.26
5	16QAM	12	7	21.29	21.27	21.20
5	16QAM	12	13	21.17	21.29	21.06
5	16QAM	25	0	21.25	21.21	21.22
5	64QAM	1	0	21.18	21.21	21.18
5	64QAM	1	12	21.23	21.24	21.15
5	64QAM	1	24	21.16	21.21	21.07
5	64QAM	12	0	20.24	20.35	20.27
5	64QAM	12	7	20.20	20.28	20.28
5	64QAM	12	13	20.20	20.34	20.21
5	64QAM	25	0	20.20	20.29	20.22
5	256QAM	1	0	18.24	18.29	18.19
5	256QAM	1	12	18.03	18.12	18.02
5	256QAM	1	24	18.03	18.07	18.05
5	256QAM	12	0	18.18	18.21	18.20
5	256QAM	12	7	18.13	18.17	18.12
5	256QAM	12	13	18.04	18.18	18.06
5	256QAM	25	0	18.12	18.15	18.11



LTE Band 38(Ant.5):

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	22.94	22.95	22.93
20	QPSK	1	49	22.75	22.87	22.80
20	QPSK	1	99	22.73	22.85	22.78
20	QPSK	50	0	21.91	21.94	21.89
20	QPSK	50	24	21.81	21.91	21.84
20	QPSK	50	50	21.77	21.88	21.78
20	QPSK	100	0	21.82	21.95	21.81
20	16QAM	1	0	21.65	21.71	21.62
20	16QAM	1	49	21.53	21.65	21.59
20	16QAM	1	99	21.55	21.68	21.61
20	16QAM	50	0	20.91	21.00	20.89
20	16QAM	50	24	20.91	20.98	20.93
20	16QAM	50	50	20.83	20.95	20.82
20	16QAM	100	0	20.79	20.87	20.78
20	64QAM	1	0	21.10	21.20	21.10
20	64QAM	1	49	20.98	21.05	20.95
20	64QAM	1	99	21.06	21.17	21.02
20	64QAM	50	0	19.78	19.89	19.75
20	64QAM	50	24	19.63	19.77	19.62
20	64QAM	50	50	19.77	19.86	19.71
20	64QAM	100	0	19.91	19.98	19.84
20	256QAM	1	0	17.95	17.90	17.91
20	256QAM	1	49	17.71	17.84	17.77
20	256QAM	1	99	17.78	17.85	17.78
20	256QAM	50	0	17.90	17.93	17.90
20	256QAM	50	24	17.76	17.90	17.81
20	256QAM	50	50	17.68	17.86	17.77
20	256QAM	100	0	17.65	17.88	17.73
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	22.84	22.88	22.83
15	QPSK	1	37	22.68	22.77	22.69
15	QPSK	1	74	22.68	22.77	22.68
15	QPSK	36	0	21.82	21.83	21.83
15	QPSK	36	20	21.72	21.88	21.73
15	QPSK	36	39	21.65	21.77	21.71
15	QPSK	75	0	21.75	21.80	21.71
15	16QAM	1	0	21.54	21.59	21.56
15	16QAM	1	37	21.47	21.55	21.51
15	16QAM	1	74	21.42	21.56	21.48
15	16QAM	36	0	20.84	20.94	20.82
15	16QAM	36	20	20.79	20.83	20.79
15	16QAM	36	39	20.71	20.84	20.76
15	16QAM	75	0	20.64	20.81	20.67



15	64QAM	1	0	20.99	21.09	21.00
15	64QAM	1	37	20.85	20.95	20.82
15	64QAM	1	74	20.96	21.07	20.93
15	64QAM	36	0	19.70	19.80	19.69
15	64QAM	36	20	19.57	19.62	19.54
15	64QAM	36	39	19.70	19.80	19.58
15	64QAM	75	0	19.76	19.92	19.70
15	256QAM	1	0	17.87	17.78	17.83
15	256QAM	1	37	17.62	17.78	17.67
15	256QAM	1	74	17.71	17.80	17.67
15	256QAM	36	0	17.76	17.80	17.76
15	256QAM	36	20	17.67	17.84	17.70
15	256QAM	36	39	17.54	17.72	17.72
15	256QAM	75	0	17.51	17.82	17.62
Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	22.86	22.87	22.82
10	QPSK	1	25	22.61	22.75	22.68
10	QPSK	1	49	22.60	22.75	22.64
10	QPSK	25	0	21.85	21.77	21.78
10	QPSK	25	12	21.74	21.87	21.73
10	QPSK	25	25	21.65	21.73	21.70
10	QPSK	50	0	21.75	21.83	21.73
10	16QAM	1	0	21.53	21.61	21.56
10	16QAM	1	25	21.39	21.59	21.52
10	16QAM	1	49	21.47	21.56	21.46
10	16QAM	25	0	20.77	20.88	20.83
10	16QAM	25	12	20.85	20.89	20.84
10	16QAM	25	25	20.77	20.82	20.75
10	16QAM	50	0	20.69	20.75	20.63
10	64QAM	1	0	21.02	21.08	21.05
10	64QAM	1	25	20.91	20.94	20.85
10	64QAM	1	49	20.92	21.08	20.93
10	64QAM	25	0	19.69	19.75	19.63
10	64QAM	25	12	19.48	19.70	19.54
10	64QAM	25	25	19.63	19.78	19.58
10	64QAM	50	0	19.84	19.92	19.78
10	256QAM	1	0	17.90	17.81	17.83
10	256QAM	1	25	17.63	17.72	17.70
10	256QAM	1	49	17.73	17.76	17.72
10	256QAM	25	0	17.82	17.82	17.79
10	256QAM	25	12	17.70	17.83	17.74
10	256QAM	25	25	17.54	17.79	17.70
10	256QAM	50	0	17.51	17.83	17.66
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	22.80	22.87	22.81
5	QPSK	1	12	22.66	22.78	22.69
5	QPSK	1	24	22.61	22.76	22.65
5	QPSK	12	0	21.84	21.76	21.76



5	QPSK	12	7	21.71	21.85	21.70
5	QPSK	12	13	21.66	21.73	21.65
5	QPSK	25	0	21.73	21.82	21.71
5	16QAM	1	0	21.55	21.56	21.51
5	16QAM	1	12	21.41	21.55	21.46
5	16QAM	1	24	21.46	21.62	21.50
5	16QAM	12	0	20.81	20.93	20.77
5	16QAM	12	7	20.79	20.92	20.85
5	16QAM	12	13	20.75	20.87	20.74
5	16QAM	25	0	20.70	20.77	20.69
5	64QAM	1	0	20.98	21.06	21.04
5	64QAM	1	12	20.92	20.93	20.86
5	64QAM	1	24	20.92	21.05	20.89
5	64QAM	12	0	19.68	19.75	19.68
5	64QAM	12	7	19.50	19.69	19.52
5	64QAM	12	13	19.69	19.76	19.56
5	64QAM	25	0	19.84	19.91	19.69
5	256QAM	1	0	17.89	17.79	17.85
5	256QAM	1	12	17.59	17.70	17.70
5	256QAM	1	24	17.67	17.79	17.70
5	256QAM	12	0	17.80	17.83	17.77
5	256QAM	12	7	17.64	17.82	17.70
5	256QAM	12	13	17.57	17.81	17.70
5	256QAM	25	0	17.53	17.78	17.64



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	23.18	23.32	23.14
20	QPSK	1	49	23.02	23.21	23.12
20	QPSK	1	99	23.08	23.16	23.16
20	QPSK	50	0	22.64	22.97	22.72
20	QPSK	50	24	22.51	22.86	22.63
20	QPSK	50	50	22.62	22.86	22.64
20	QPSK	100	0	22.55	22.91	22.75
20	16QAM	1	0	22.53	22.78	22.65
20	16QAM	1	49	22.67	22.82	22.66
20	16QAM	1	99	22.46	22.79	22.67
20	16QAM	50	0	21.48	21.51	21.69
20	16QAM	50	24	21.34	21.38	21.61
20	16QAM	50	50	21.35	21.37	21.55
20	16QAM	100	0	21.44	21.47	21.34
20	64QAM	1	0	21.26	21.23	21.15
20	64QAM	1	49	21.13	21.13	21.06
20	64QAM	1	99	21.14	21.17	21.02
20	64QAM	50	0	20.47	20.52	20.64
20	64QAM	50	24	20.37	20.38	20.58
20	64QAM	50	50	20.36	20.41	20.58
20	64QAM	100	0	20.52	20.46	20.50
20	256QAM	1	0	18.19	18.30	18.22
20	256QAM	1	49	18.05	18.21	18.10
20	256QAM	1	99	18.06	18.20	18.12
20	256QAM	50	0	18.12	18.32	18.21
20	256QAM	50	24	18.13	18.18	18.15
20	256QAM	50	50	18.10	18.13	18.16
20	256QAM	100	0	18.13	18.33	18.23
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	23.00	23.22	23.17
15	QPSK	1	37	23.09	23.14	23.10
15	QPSK	1	74	23.02	23.07	23.07
15	QPSK	36	0	22.52	22.86	22.59
15	QPSK	36	20	22.39	22.77	22.58
15	QPSK	36	39	22.51	22.71	22.58
15	QPSK	75	0	22.50	22.81	22.64
15	16QAM	1	0	22.39	22.70	22.54
15	16QAM	1	37	22.54	22.75	22.60
15	16QAM	1	74	22.39	22.73	22.53
15	16QAM	36	0	21.39	21.42	21.58
15	16QAM	36	20	21.19	21.27	21.52
15	16QAM	36	39	21.29	21.26	21.41
15	16QAM	75	0	21.36	21.35	21.21



15	64QAM	1	0	21.13	21.12	21.08
15	64QAM	1	37	21.03	21.01	21.06
15	64QAM	1	74	21.09	21.10	21.13
15	64QAM	36	0	20.38	20.42	20.55
15	64QAM	36	20	20.23	20.28	20.53
15	64QAM	36	39	20.31	20.31	20.52
15	64QAM	75	0	20.45	20.35	20.36
15	256QAM	1	0	18.10	18.18	18.15
15	256QAM	1	37	18.11	18.12	18.06
15	256QAM	1	74	18.05	18.06	18.00
15	256QAM	36	0	18.00	18.18	18.14
15	256QAM	36	20	18.00	18.07	18.05
15	256QAM	36	39	18.02	18.08	18.02
15	256QAM	75	0	18.06	18.22	18.12
Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	23.05	23.16	23.17
10	QPSK	1	25	23.05	23.07	23.00
10	QPSK	1	49	23.02	23.08	23.04
10	QPSK	25	0	22.53	22.70	22.62
10	QPSK	25	12	22.44	22.68	22.54
10	QPSK	25	25	22.53	22.75	22.58
10	QPSK	50	0	22.41	22.81	22.68
10	16QAM	1	0	22.40	22.72	22.52
10	16QAM	1	25	22.60	22.70	22.54
10	16QAM	1	49	22.37	22.69	22.56
10	16QAM	25	0	21.39	21.39	21.59
10	16QAM	25	12	21.29	21.26	21.51
10	16QAM	25	25	21.28	21.31	21.46
10	16QAM	50	0	21.31	21.40	21.23
10	64QAM	1	0	21.12	21.10	21.07
10	64QAM	1	25	21.08	21.07	21.06
10	64QAM	1	49	21.09	21.05	21.01
10	64QAM	25	0	20.41	20.41	20.59
10	64QAM	25	12	20.28	20.30	20.50
10	64QAM	25	25	20.26	20.31	20.45
10	64QAM	50	0	20.42	20.40	20.45
10	256QAM	1	0	18.11	18.17	18.09
10	256QAM	1	25	18.05	18.08	18.03
10	256QAM	1	49	18.15	18.12	18.00
10	256QAM	25	0	18.11	18.22	18.12
10	256QAM	25	12	18.07	18.08	18.05
10	256QAM	25	25	18.02	18.05	18.02
10	256QAM	50	0	18.02	18.27	18.14
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	23.07	23.19	23.14
5	QPSK	1	12	23.09	23.13	23.03
5	QPSK	1	24	23.17	23.11	23.09
5	QPSK	12	0	22.54	22.87	22.60



5	QPSK	12	7	22.40	22.77	22.57
5	QPSK	12	13	22.48	22.74	22.50
5	QPSK	25	0	22.47	22.83	22.65
5	16QAM	1	0	22.46	22.67	22.53
5	16QAM	1	12	22.53	22.68	22.60
5	16QAM	1	24	22.40	22.68	22.54
5	16QAM	12	0	21.37	21.37	21.58
5	16QAM	12	7	21.20	21.31	21.46
5	16QAM	12	13	21.21	21.28	21.40
5	16QAM	25	0	21.31	21.41	21.26
5	64QAM	1	0	21.13	21.17	21.03
5	64QAM	1	12	21.01	21.04	21.13
5	64QAM	1	24	21.04	21.02	21.15
5	64QAM	12	0	20.38	20.41	20.58
5	64QAM	12	7	20.31	20.24	20.48
5	64QAM	12	13	20.26	20.29	20.49
5	64QAM	25	0	20.47	20.35	20.37
5	256QAM	1	0	18.07	18.24	18.07
5	256QAM	1	12	18.04	18.11	18.01
5	256QAM	1	24	18.08	18.15	18.04
5	256QAM	12	0	18.04	18.19	18.14
5	256QAM	12	7	18.06	18.09	18.05
5	256QAM	12	13	18.13	18.00	18.05
5	256QAM	25	0	18.01	18.19	18.17



## CA Power and EIRP

### LTE Band 7C:

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	23.18	0.2618
M	QPSK	1	Max	1	0	22.80	0.2399
H	QPSK	1	Max	1	0	23.04	0.2535
L	16QAM	1	Max	1	0	22.54	0.2259
M	16QAM	1	Max	1	0	22.24	0.2109
H	16QAM	1	Max	1	0	22.58	0.2280
L	64QAM	1	Max	1	0	21.35	0.1718
M	64QAM	1	Max	1	0	21.15	0.1641
H	64QAM	1	Max	1	0	21.45	0.1758
L	256QAM	1	Max	1	0	18.42	0.0875
M	256QAM	1	Max	1	0	18.02	0.0798
H	256QAM	1	Max	1	0	18.66	0.0925
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.95	0.2483
H	16QAM	1	Max	1	0	22.54	0.2259
Combination 15MHz+20MHz (75RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	23.09	0.2564
H	16QAM	1	Max	1	0	22.52	0.2249
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.97	0.2495
H	16QAM	1	Max	1	0	22.56	0.2270
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.85	0.2427
H	16QAM	1	Max	1	0	22.46	0.2218
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	23.05	0.2541
H	16QAM	1	Max	1	0	22.56	0.2270
Combination 15MHz+10MHz (75RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		



L	QPSK	1	Max	1	0	22.81	0.2404
H	16QAM	1	Max	1	0	22.46	0.2218

**LTE Band 38C:**

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	23.01	0.1099
M	QPSK	1	Max	1	0	23.65	0.1274
H	QPSK	1	Max	1	0	23.10	0.1122
L	16QAM	1	Max	1	0	22.22	0.0916
M	16QAM	1	Max	1	0	22.65	0.1012
H	16QAM	1	Max	1	0	22.34	0.0942
L	64QAM	1	Max	1	0	20.68	0.0643
M	64QAM	1	Max	1	0	21.22	0.0728
H	64QAM	1	Max	1	0	21.01	0.0693
L	256QAM	1	Max	1	0	17.98	0.0345
M	256QAM	1	Max	1	0	18.05	0.0351
H	256QAM	1	Max	1	0	17.62	0.0318
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.01	0.1099
M	16QAM	1	Max	1	0	22.64	0.1009

**LTE Band 41C:**

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	23.20	0.1148
M	QPSK	1	Max	1	0	23.85	0.1334
H	QPSK	1	Max	1	0	23.40	0.1202
L	16QAM	1	Max	1	0	22.42	0.0959
M	16QAM	1	Max	1	0	22.98	0.1091
H	16QAM	1	Max	1	0	22.59	0.0998
L	64QAM	1	Max	1	0	20.88	0.0673
M	64QAM	1	Max	1	0	21.37	0.0753
H	64QAM	1	Max	1	0	21.32	0.0745
L	256QAM	1	Max	1	0	18.26	0.0368
M	256QAM	1	Max	1	0	18.40	0.0380
H	256QAM	1	Max	1	0	18.35	0.0376
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.64	0.1271
M	16QAM	1	Max	1	0	22.91	0.1074
Combination 15MHz+20MHz (75RB+100RB)							



Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.71	0.1291
M	16QAM	1	Max	1	0	22.85	0.1059
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.65	0.1274
M	16QAM	1	Max	1	0	22.89	0.1069
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.77	0.1309
M	16QAM	1	Max	1	0	22.97	0.1089
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.45	0.1216
M	16QAM	1	Max	1	0	22.65	0.1012
Combination 15MHz+10MHz (75RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.74	0.1300
M	16QAM	1	Max	1	0	22.75	0.1035
Combination 10MHz+15MHz (50RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.52	0.1236
M	16QAM	1	Max	1	0	22.63	0.1007
Combination 20MHz+5MHz (100RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.00	0.1096
M	16QAM	1	Max	1	0	22.70	0.1023
Combination 5MHz+20MHz (25RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.20	0.1148
M	16QAM	1	Max	1	0	22.60	0.1000



**EIRP**

LTE Band 7 (GT - LC = 1 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	22.30	22.59	22.53
Conducted Power (Watts)	0.1698	0.1816	0.1791
EIRP(dBm)	23.30	23.59	23.53
EIRP(Watts)	0.2138	0.2286	0.2254

LTE Band 7 (GT - LC = 1 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)	22.39	22.59	22.53	22.31	22.57	22.51	22.45	22.72	22.62
Conducted Power (Watts)	0.1734	0.1816	0.1791	0.1702	0.1807	0.1782	0.1758	0.1871	0.1828
EIRP(dBm)	23.39	23.59	23.53	23.31	23.57	23.51	23.45	23.72	23.62
EIRP(Watts)	0.2183	0.2286	0.2254	0.2143	0.2275	0.2244	0.2213	0.2355	0.2301



LTE Band 7 (GT - LC = 1 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	21.89	22.19	22.10
Conducted Power (Watts)	0.1545	0.1656	0.1622
EIRP(dBm)	22.89	23.19	23.10
EIRP(Watts)	0.1945	0.2084	0.2042

LTE Band 7 (GT - LC =1 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	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	21.94	22.22	22.08	21.92	22.14	22.06	22.01	22.27	22.16
Conducted Power (Watts)	0.1563	0.1667	0.1614	0.1556	0.1637	0.1607	0.1589	0.1687	0.1644
EIRP(dBm)	22.94	23.22	23.08	22.92	23.14	23.06	23.01	23.27	23.16
EIRP(Watts)	0.1968	0.2099	0.2032	0.1959	0.2061	0.2023	0.2000	0.2123	0.2070



LTE Band 7 (GT - LC = 1 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	20.49	20.62	20.34
Conducted Power (Watts)	0.1119	0.1153	0.1081
EIRP(dBm)	21.49	21.62	21.34
EIRP(Watts)	0.1409	0.1452	0.1361

LTE Band 7 (GT - LC =1 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	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	20.46	20.65	20.42	20.43	20.60	20.40	20.55	20.74	20.48
Conducted Power (Watts)	0.1112	0.1161	0.1102	0.1104	0.1148	0.1096	0.1135	0.1186	0.1117
EIRP(dBm)	21.46	21.65	21.42	21.43	21.60	21.40	21.55	21.74	21.48
EIRP(Watts)	0.1400	0.1462	0.1387	0.1390	0.1445	0.1380	0.1429	0.1493	0.1406



LTE Band 7 (GT - LC = 1 dB) 256QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	17.52	17.64	17.55
Conducted Power (Watts)	0.0565	0.0581	0.0569
EIRP(dBm)	18.52	18.64	18.55
EIRP(Watts)	0.0711	0.0731	0.0716

LTE Band 7 (GT - LC =1 dB) 256QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	17.37	17.63	17.50	17.47	17.74	17.67	17.43	17.72	17.67
Conducted Power (Watts)	0.0546	0.0579	0.0562	0.0558	0.0594	0.0585	0.0553	0.0592	0.0585
EIRP(dBm)	18.37	18.63	18.50	18.47	18.74	18.67	18.43	18.72	18.67
EIRP(Watts)	0.0687	0.0729	0.0708	0.0703	0.0748	0.0736	0.0697	0.0745	0.0736



LTE Band 38 (GT - LC = 1 dB) QPSK			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency (MHz)	2572.5	2595	2617.5
	Conducted Power (dBm)	22.80	22.87
Conducted Power (Watts)	0.1905	0.1936	0.1910
EIRP(dBm)	23.80	23.87	23.81
EIRP(Watts)	0.2399	0.2438	0.2404

LTE Band 38 (GT - LC = 1 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
	Conducted Power (dBm)	22.86	22.87	22.82	22.84	22.88	22.83	22.94	22.95
Conducted Power (Watts)	0.1932	0.1936	0.1914	0.1923	0.1941	0.1919	0.1968	0.1972	0.1963
EIRP(dBm)	23.86	23.87	23.82	23.84	23.88	23.83	23.94	23.95	23.93
EIRP(Watts)	0.2432	0.2438	0.2410	0.2421	0.2443	0.2415	0.2477	0.2483	0.2472



LTE Band 38 (GT - LC = 1 dB) 16QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	21.46	21.62	21.50
Conducted Power (Watts)	0.1400	0.1452	0.1413
EIRP(dBm)	22.46	22.62	22.50
EIRP(Watts)	0.1762	0.1828	0.1778

LTE Band 38 (GT - LC = 1 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	21.53	21.61	21.56	21.54	21.59	21.56	21.65	21.71	21.62
Conducted Power (Watts)	0.1422	0.1449	0.1432	0.1426	0.1442	0.1432	0.1462	0.1483	0.1452
EIRP(dBm)	22.53	22.61	22.56	22.54	22.59	22.56	22.65	22.71	22.62
EIRP(Watts)	0.1791	0.1824	0.1803	0.1795	0.1816	0.1803	0.1841	0.1866	0.1828



LTE Band 38 (GT - LC = 1 dB) 64QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	20.98	21.06	21.04
Conducted Power (Watts)	0.1253	0.1276	0.1271
EIRP(dBm)	21.98	22.06	22.04
EIRP(Watts)	0.1578	0.1607	0.1600

LTE Band 38 (GT - LC = 1 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	21.02	21.08	21.05	20.99	21.09	21.00	21.10	21.20	21.10
Conducted Power (Watts)	0.1265	0.1282	0.1274	0.1256	0.1285	0.1259	0.1288	0.1318	0.1288
EIRP(dBm)	22.02	22.08	22.05	21.99	22.09	22.00	22.10	22.20	22.10
EIRP(Watts)	0.1592	0.1614	0.1603	0.1581	0.1618	0.1585	0.1622	0.1660	0.1622



LTE Band 38 (GT - LC = 1 dB) 256QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency (MHz)	2572.5	2595	2617.5
	Conducted Power (dBm)	17.89	17.79
Conducted Power (Watts)	0.0615	0.0601	0.0610
EIRP(dBm)	18.89	18.79	18.85
EIRP(Watts)	0.0774	0.0757	0.0767

LTE Band 38 (GT - LC = 1 dB) 256QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
	Conducted Power (dBm)	17.90	17.81	17.83	17.87	17.78	17.83	17.95	17.90
Conducted Power (Watts)	0.0617	0.0604	0.0607	0.0612	0.0600	0.0607	0.0624	0.0617	0.0618
EIRP(dBm)	18.90	18.81	18.83	18.87	18.78	18.83	18.95	18.90	18.91
EIRP(Watts)	0.0776	0.0760	0.0764	0.0771	0.0755	0.0764	0.0785	0.0776	0.0778



LTE Band 41 (G <sub>T</sub> - L <sub>C</sub> = -2.6dB) 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)	23.07	23.19	23.14	23.05	23.16	23.17	23.00	23.22	23.17
Conducted Power (Watts)	0.2028	0.2084	0.2061	0.2018	0.2070	0.2075	0.1995	0.2099	0.2075
EIRP(dBm)	20.47	20.59	20.54	20.45	20.56	20.57	20.40	20.62	20.57
EIRP(Watts)	0.1114	0.1146	0.1132	0.1109	0.1138	0.1140	0.1096	0.1153	0.1140

LTE Band 41 (G <sub>T</sub> - L <sub>C</sub> = -2.6dB) QPSK			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	23.18	23.32	23.14
Conducted Power (Watts)	0.2080	0.2148	0.2061
EIRP(dBm)	20.58	20.72	20.54
EIRP(Watts)	0.1143	0.1180	0.1132



LTE Band 41 (G <sub>T</sub> - L <sub>C</sub> = -2.6dB) 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)	22.53	22.68	22.60	22.40	22.72	22.52	22.54	22.75	22.60
Conducted Power (Watts)	0.1791	0.1854	0.1820	0.1738	0.1871	0.1786	0.1795	0.1884	0.1820
EIRP(dBm)	19.93	20.08	20.00	19.80	20.12	19.92	19.94	20.15	20.00
EIRP(Watts)	0.0984	0.1019	0.1000	0.0955	0.1028	0.0982	0.0986	0.1035	0.1000

LTE Band 41 (G <sub>T</sub> - L <sub>C</sub> = -2.6dB) 16QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	22.67	22.82	22.66
Conducted Power (Watts)	0.1849	0.1914	0.1845
EIRP(dBm)	20.07	20.22	20.06
EIRP(Watts)	0.1016	0.1052	0.1014



LTE Band 41 (G <sub>T</sub> - L <sub>C</sub> = -2.6dB) 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)	21.13	21.17	21.03	21.12	21.10	21.07	21.13	21.12	21.08
Conducted Power (Watts)	0.1297	0.1309	0.1268	0.1294	0.1288	0.1279	0.1297	0.1294	0.1282
EIRP(dBm)	18.53	18.57	18.43	18.52	18.50	18.47	18.53	18.52	18.48
EIRP(Watts)	0.0713	0.0719	0.0697	0.0711	0.0708	0.0703	0.0713	0.0711	0.0705

LTE Band 41 (G <sub>T</sub> - L <sub>C</sub> = -2.6dB) 64QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	21.26	21.23	21.15
Conducted Power (Watts)	0.1337	0.1327	0.1303
EIRP(dBm)	18.66	18.63	18.55
EIRP(Watts)	0.0735	0.0729	0.0716



LTE Band 41 (G <sub>T</sub> - L <sub>C</sub> = -2.6dB) 256QAM									
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)	18.07	18.24	18.07	18.02	18.27	18.14	18.00	18.18	18.14
Conducted Power (Watts)	0.0641	0.0667	0.0641	0.0634	0.0671	0.0652	0.0631	0.0658	0.0652
EIRP(dBm)	15.47	15.64	15.47	15.42	15.67	15.54	15.40	15.58	15.54
EIRP(Watts)	0.0352	0.0366	0.0352	0.0348	0.0369	0.0358	0.0347	0.0361	0.0358

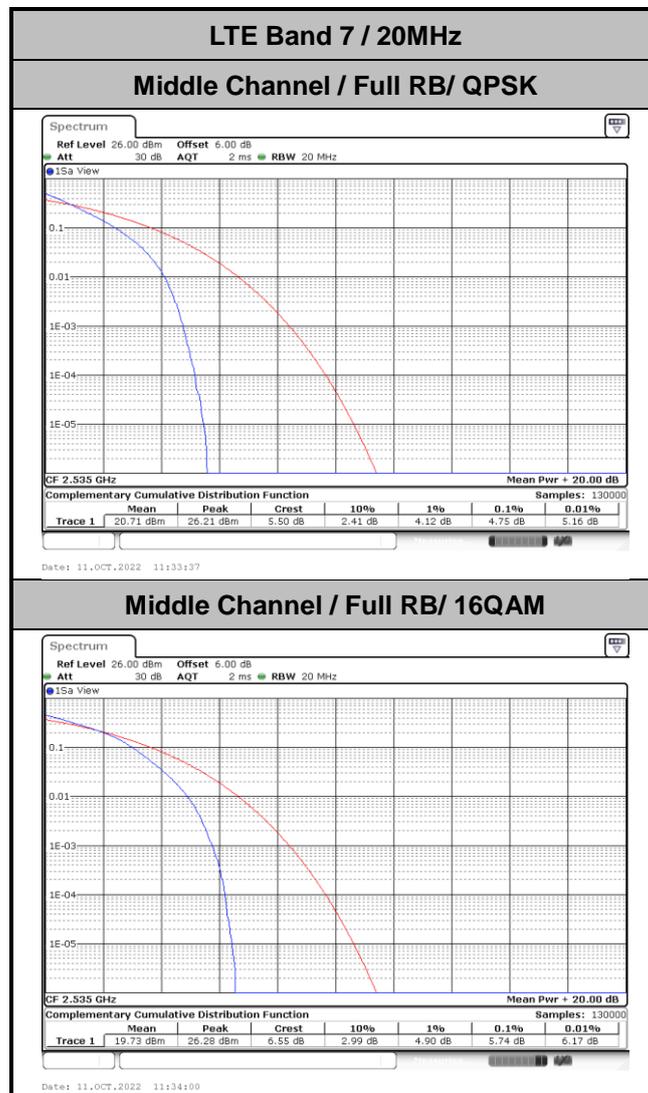
LTE Band 41 (G <sub>T</sub> - L <sub>C</sub> = -2.6dB) 256QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	18.13	18.33	18.23
Conducted Power (Watts)	0.0650	0.0681	0.0665
EIRP(dBm)	15.53	15.73	15.63
EIRP(Watts)	0.0357	0.0374	0.0366

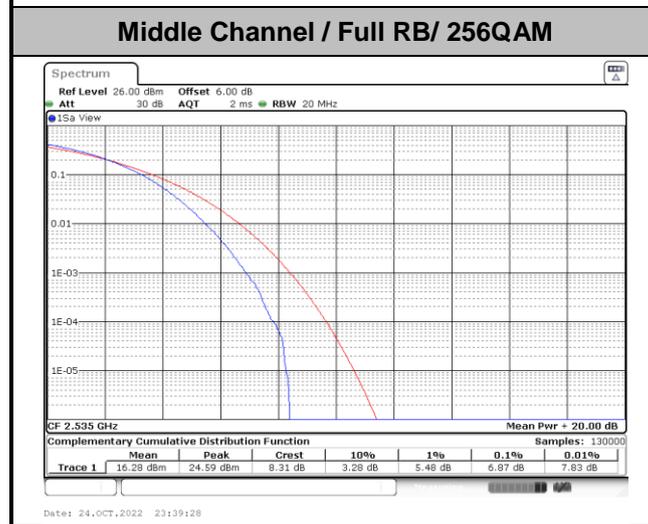
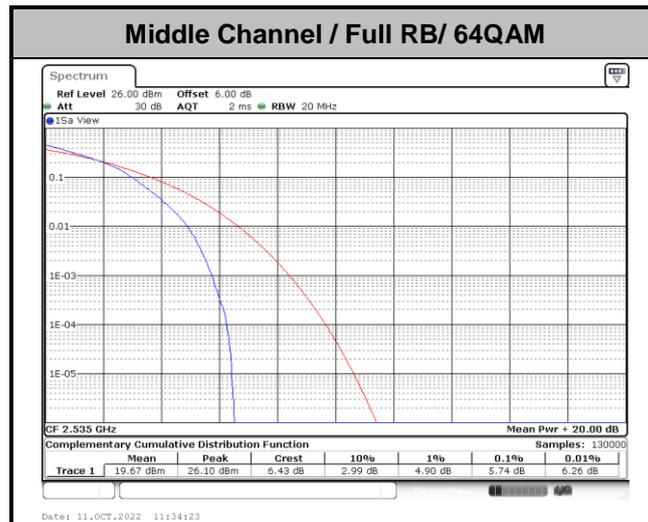


# LTE Band 7

## Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.75	5.74	5.74	6.87	PASS

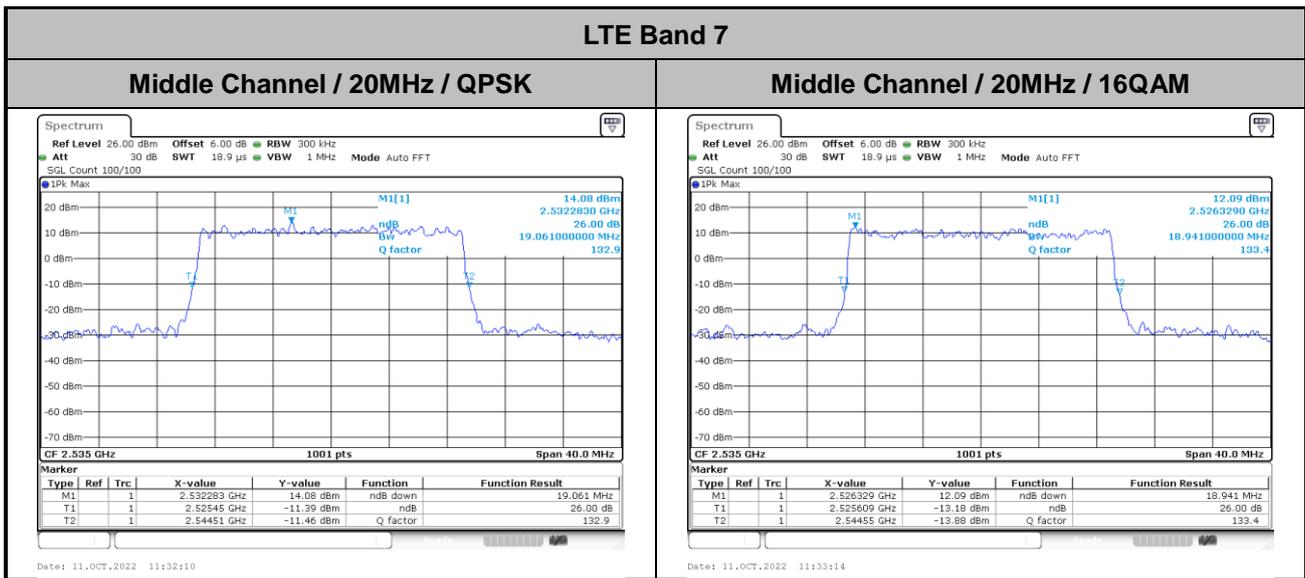






## 26dB Bandwidth

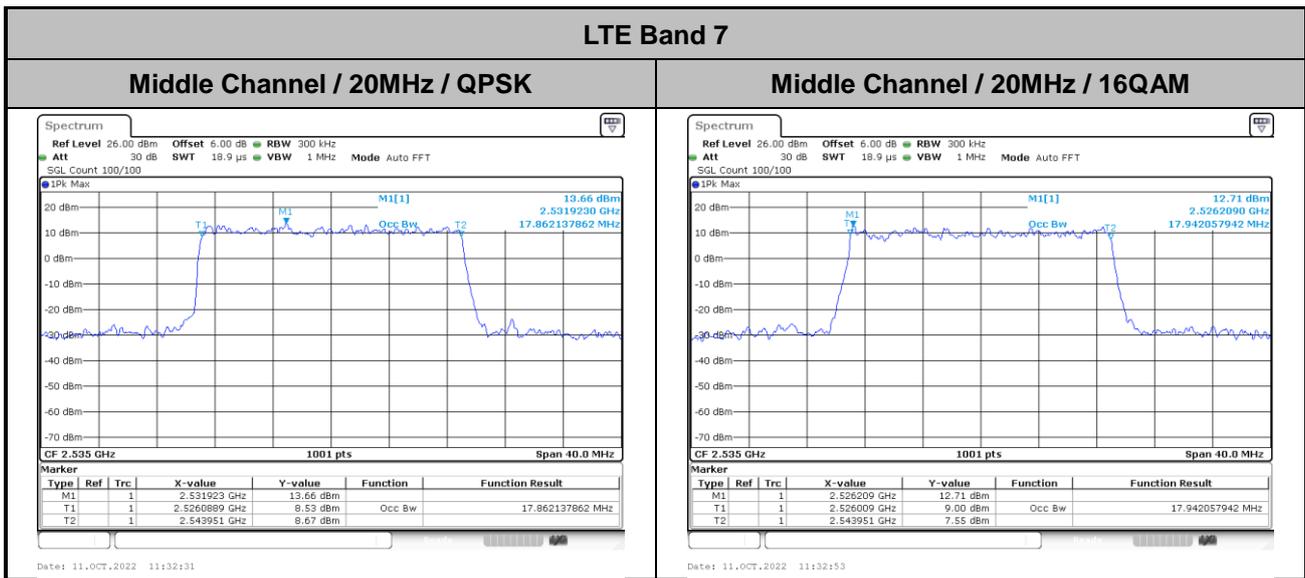
<b>Mode</b>	<b>LTE Band 7 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	19.06	18.94





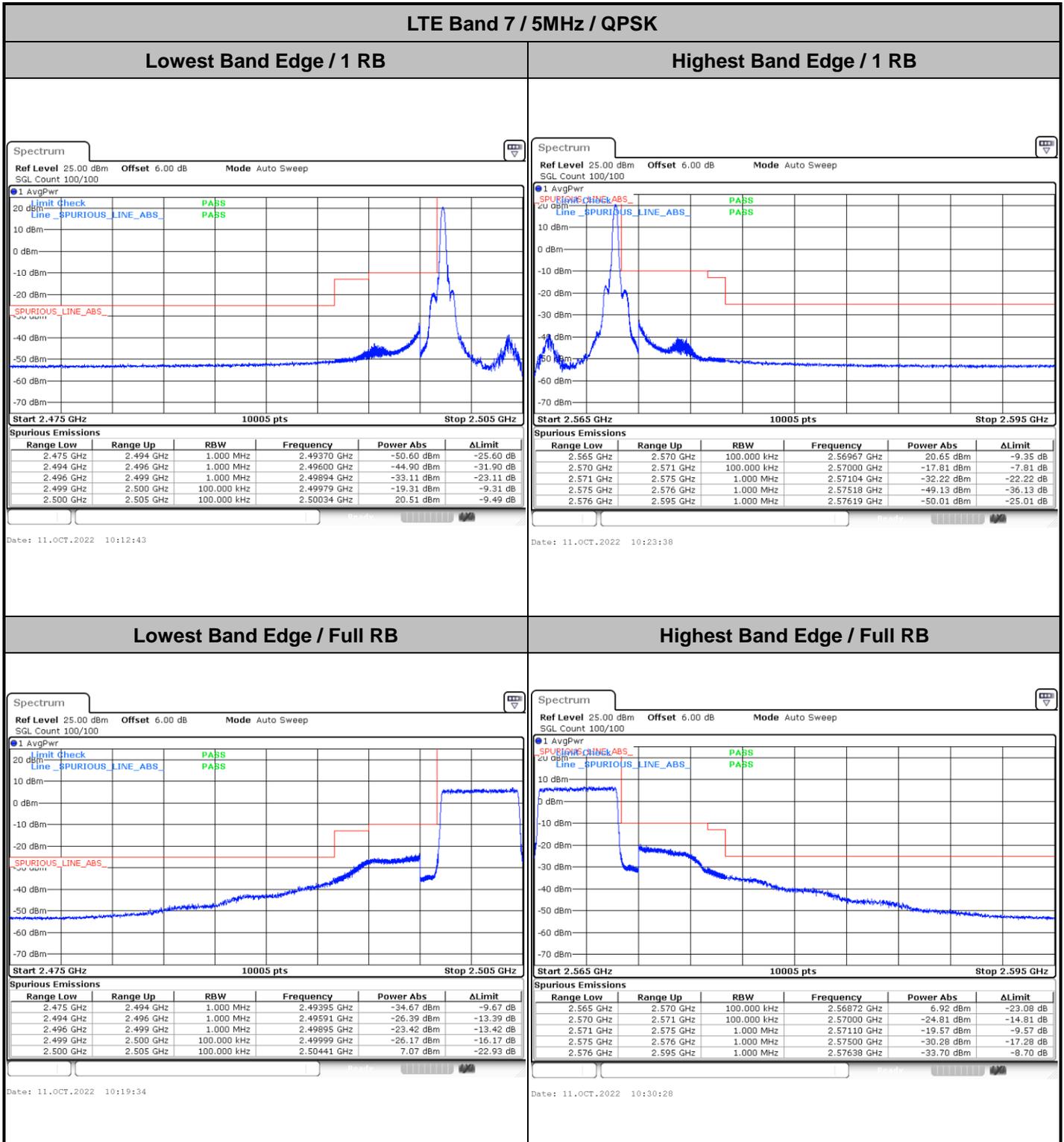
# Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.86	17.94





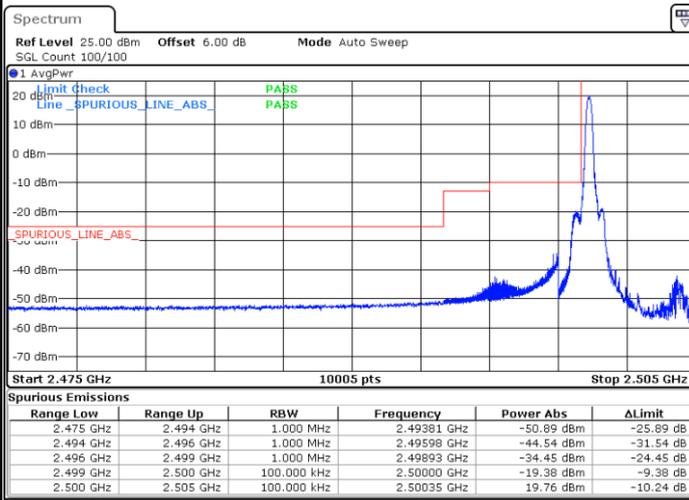
# Conducted Band Edge





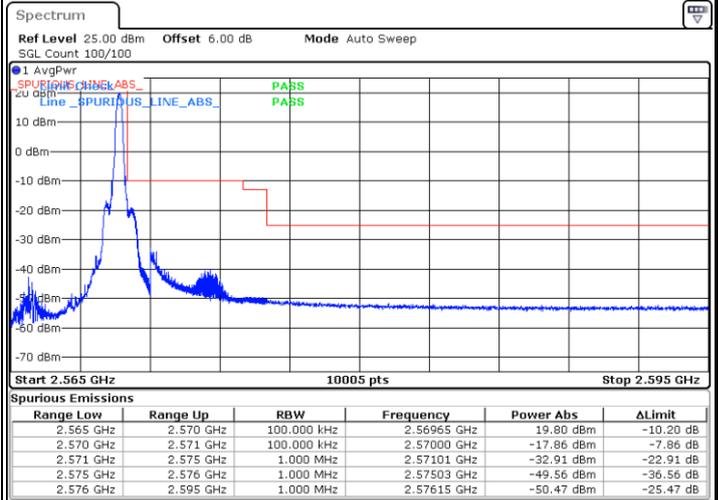
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



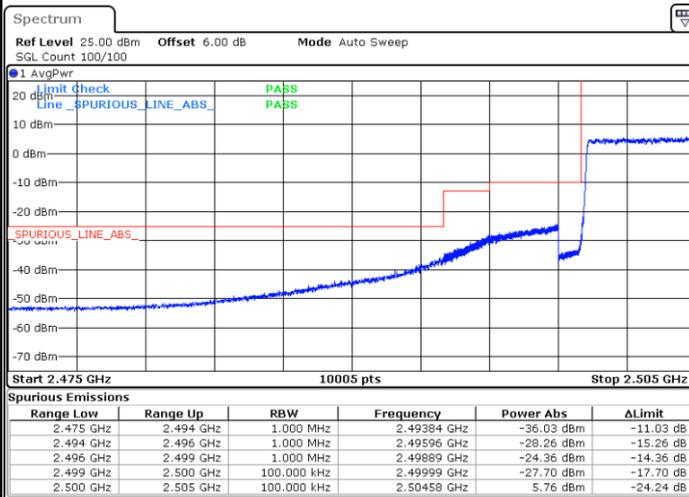
Date: 11.OCT.2022 10:14:05

Highest Band Edge / 1 RB



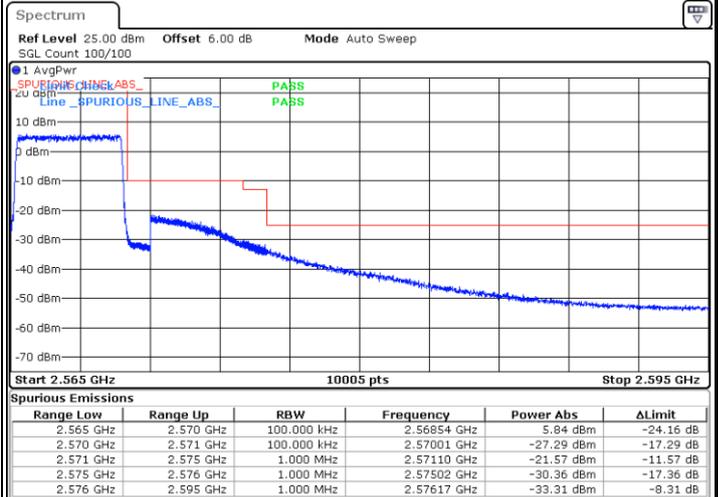
Date: 11.OCT.2022 10:25:00

Lowest Band Edge / Full RB



Date: 11.OCT.2022 10:18:12

Highest Band Edge / Full RB

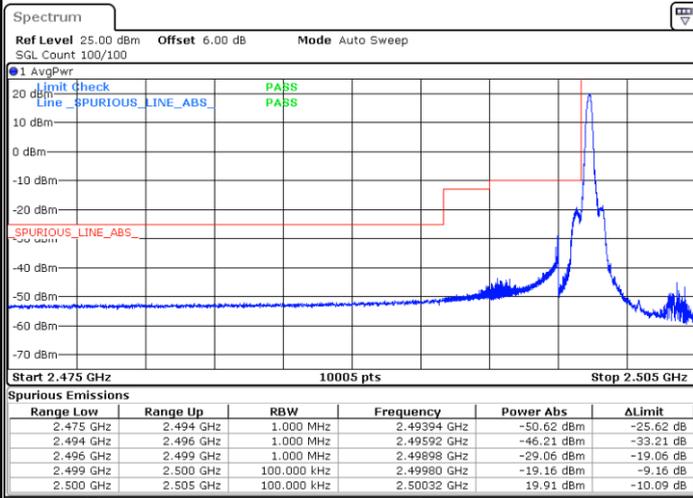


Date: 11.OCT.2022 10:29:06



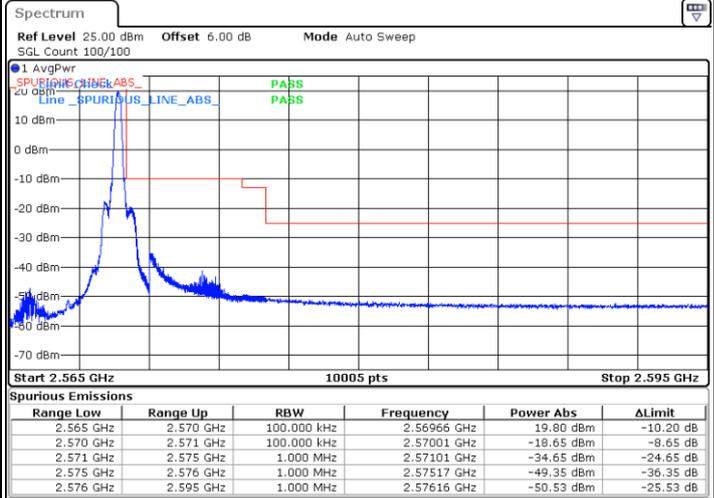
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



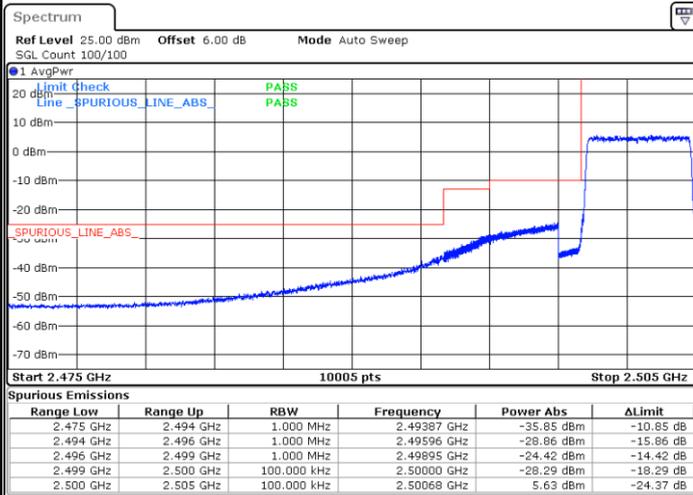
Date: 11.OCT.2022 10:15:28

Highest Band Edge / 1 RB



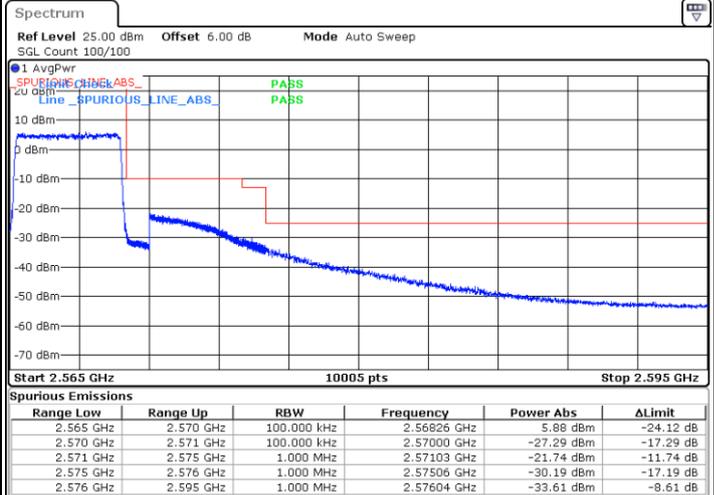
Date: 11.OCT.2022 10:26:22

Lowest Band Edge / Full RB



Date: 11.OCT.2022 10:16:50

Highest Band Edge / Full RB

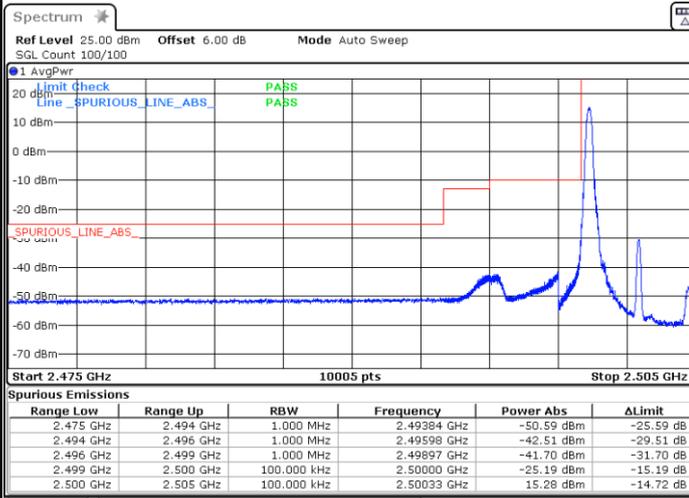


Date: 11.OCT.2022 10:27:44

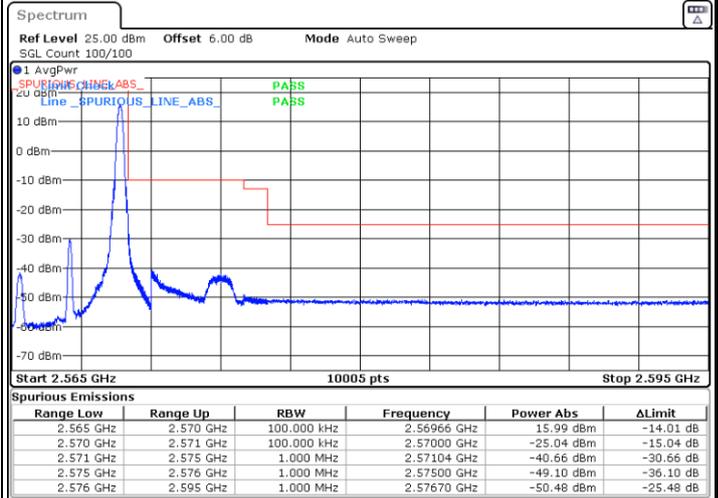


LTE Band 7 / 5MHz / 256QAM

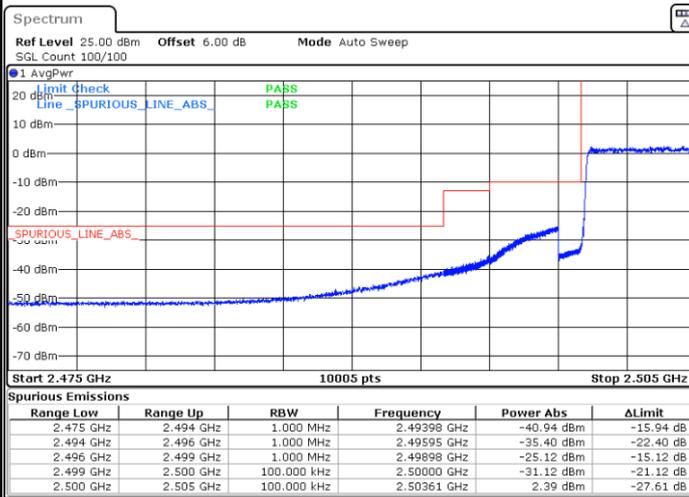
Lowest Band Edge / 1RB



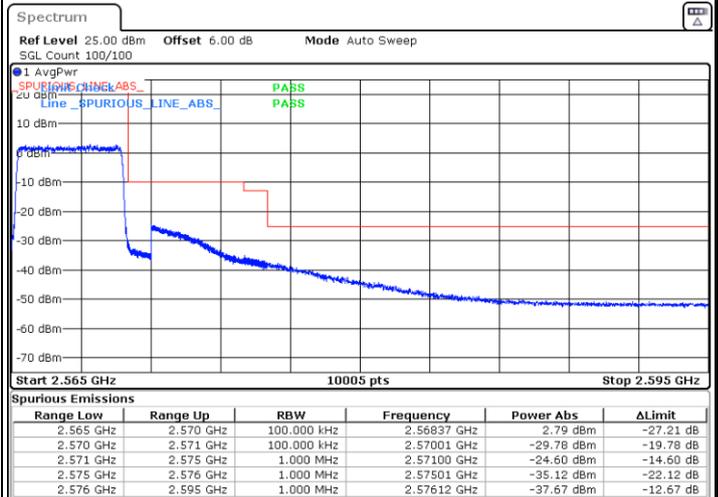
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

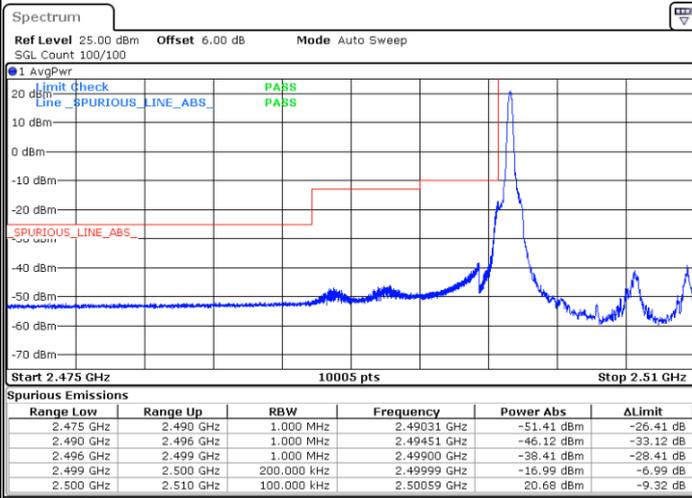




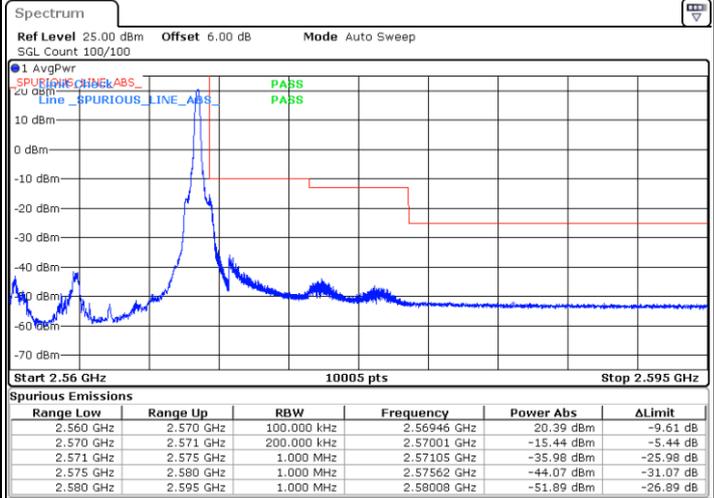
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



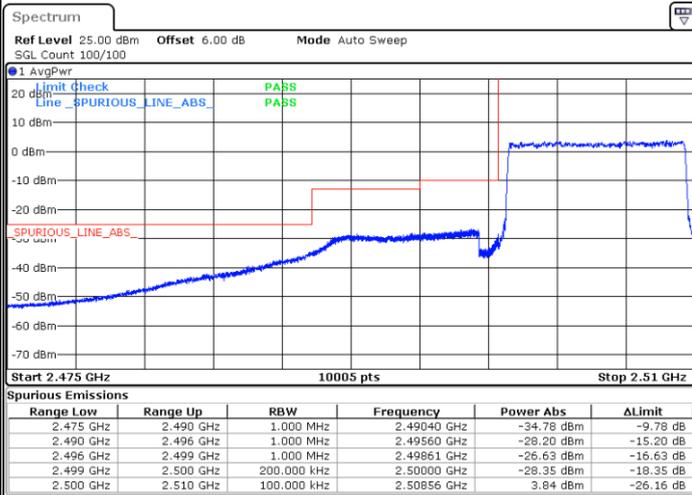
Date: 11.OCT.2022 10:33:11



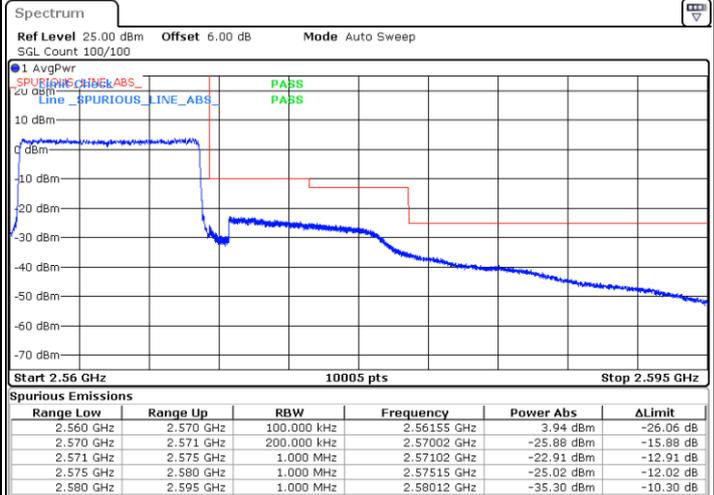
Date: 11.OCT.2022 10:44:05

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 11.OCT.2022 10:40:01

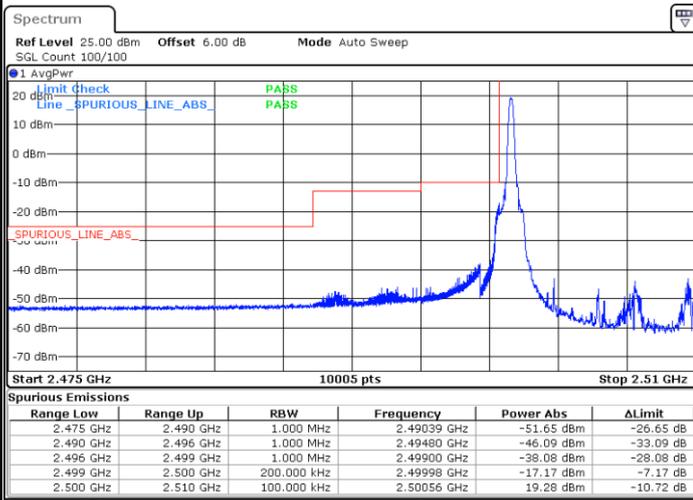


Date: 11.OCT.2022 10:50:54



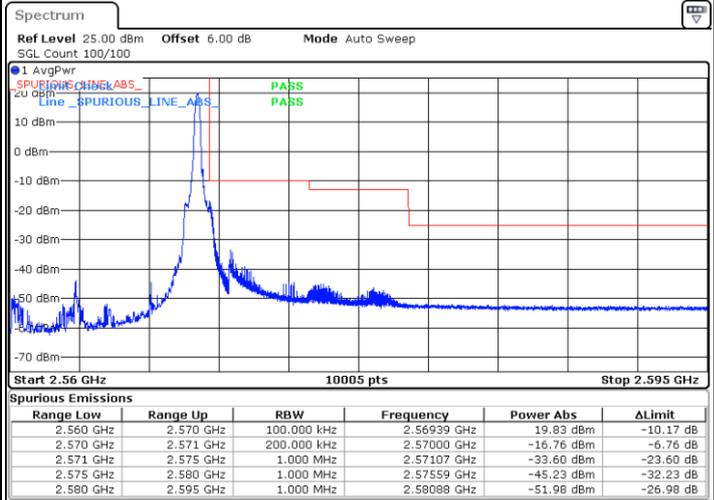
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



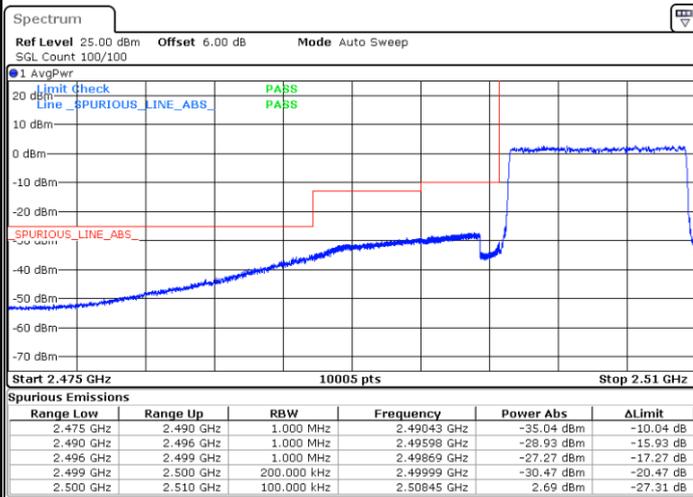
Date: 11.OCT.2022 10:34:33

Highest Band Edge / 1 RB



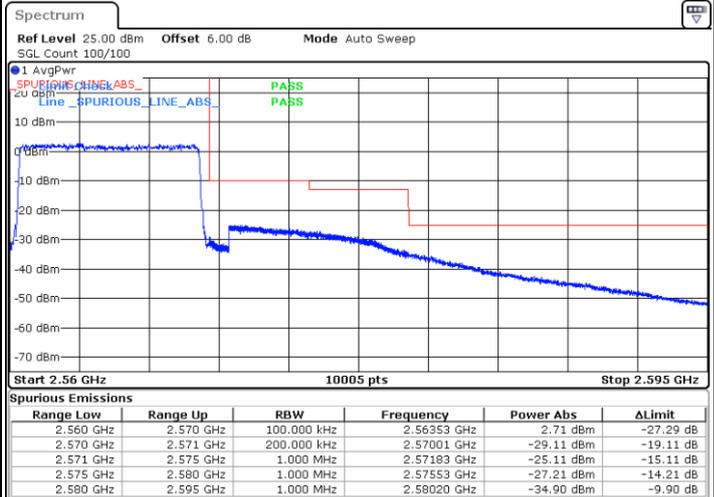
Date: 11.OCT.2022 10:45:27

Lowest Band Edge / Full RB



Date: 11.OCT.2022 10:38:39

Highest Band Edge / Full RB



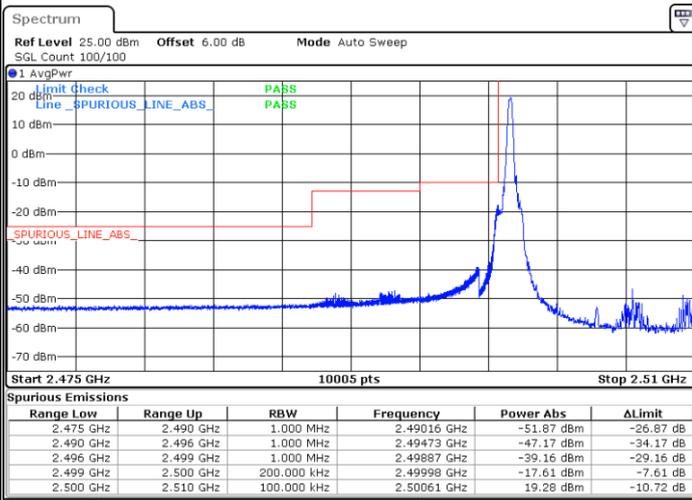
Date: 11.OCT.2022 10:49:33



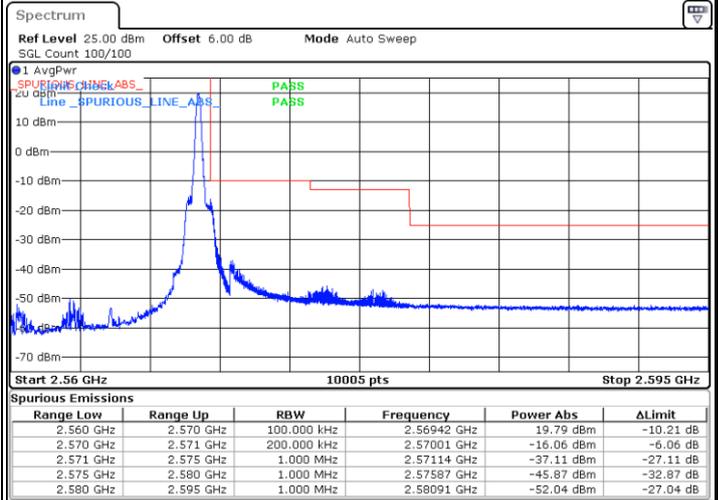
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



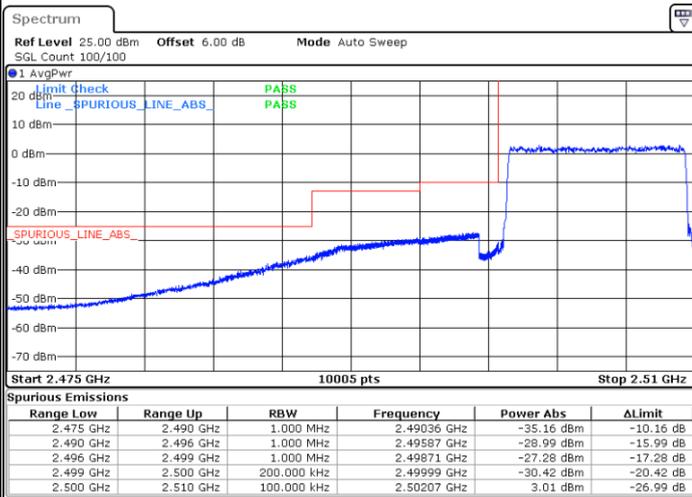
Date: 11.OCT.2022 10:35:55



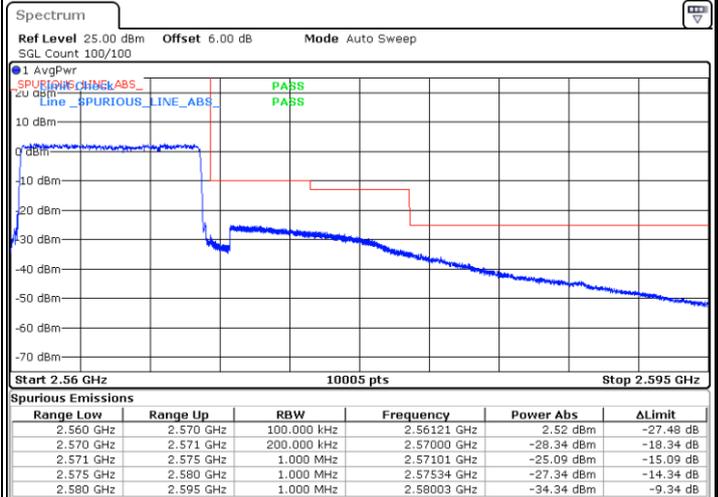
Date: 11.OCT.2022 10:46:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 11.OCT.2022 10:37:17

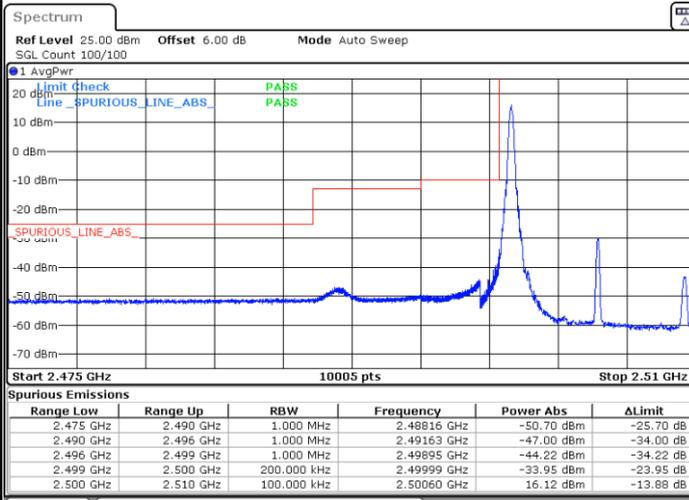


Date: 11.OCT.2022 10:48:11



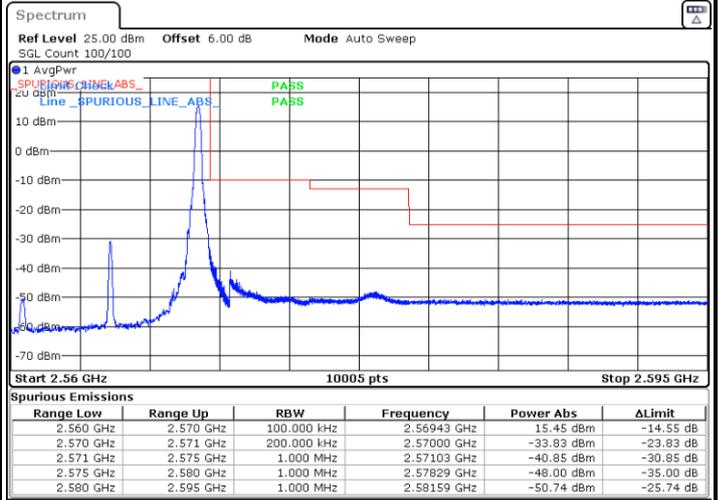
LTE Band 7 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



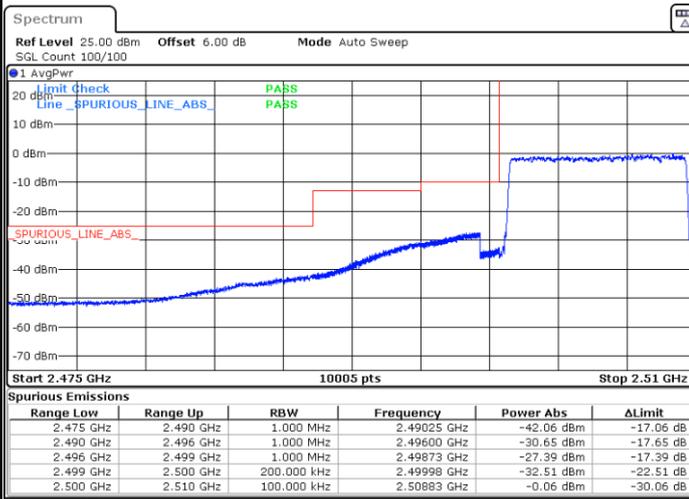
Date: 24.OCT.2022 23:01:38

Highest Band Edge / 1 RB



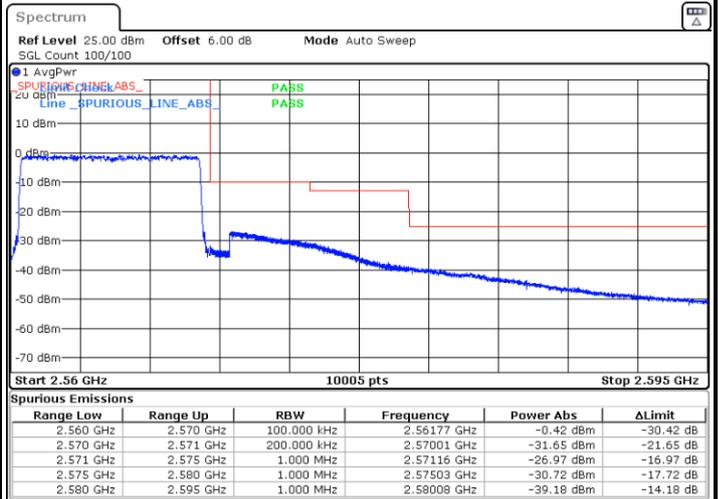
Date: 24.OCT.2022 23:10:38

Lowest Band Edge / Full RB



Date: 24.OCT.2022 23:06:50

Highest Band Edge / Full RB

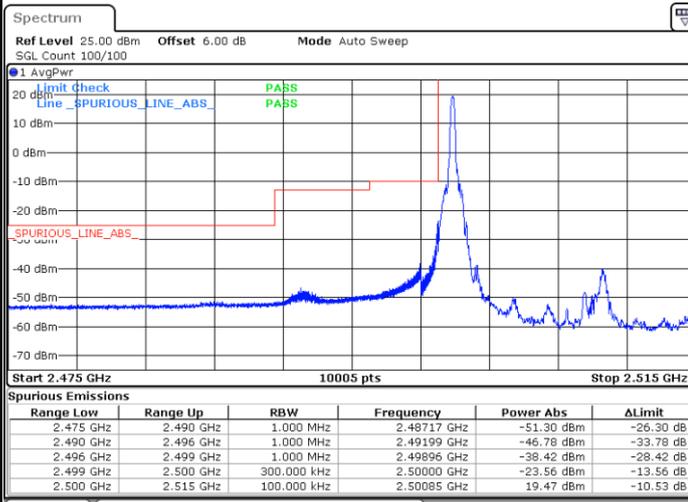


Date: 24.OCT.2022 23:11:51



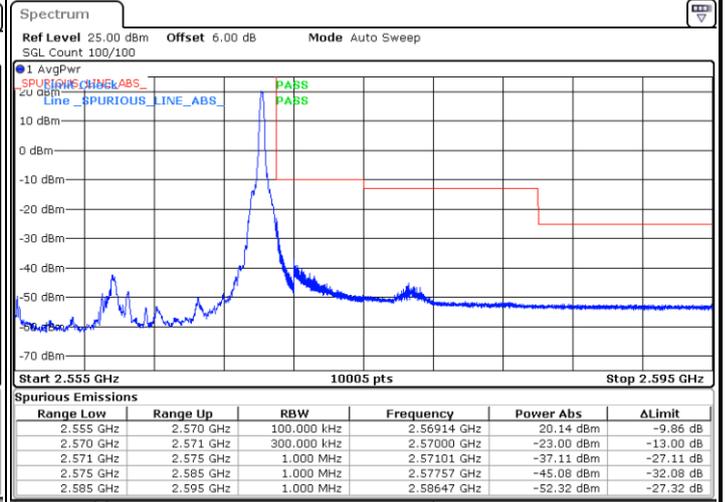
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



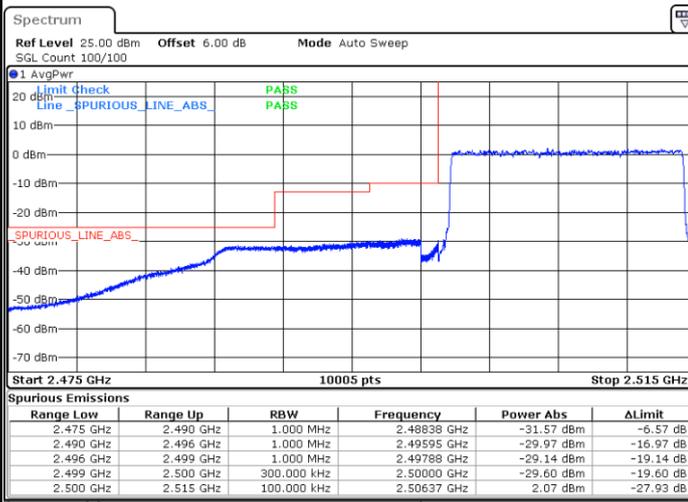
Date: 11.OCT.2022 10:53:38

Highest Band Edge / 1 RB



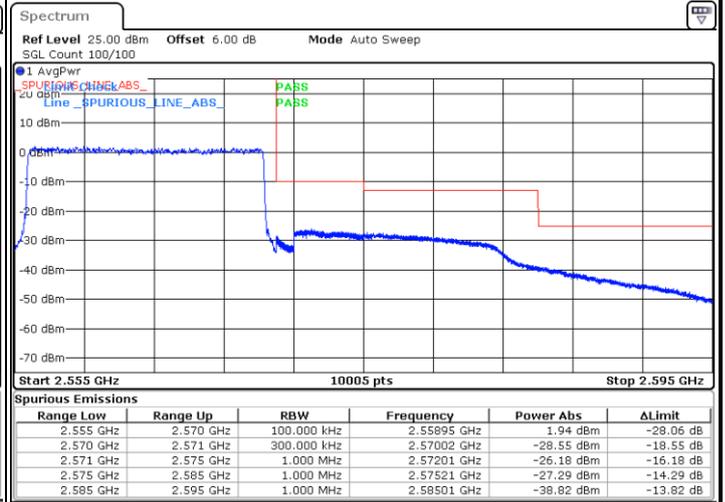
Date: 11.OCT.2022 11:04:32

Lowest Band Edge / Full RB



Date: 11.OCT.2022 11:00:28

Highest Band Edge / Full RB

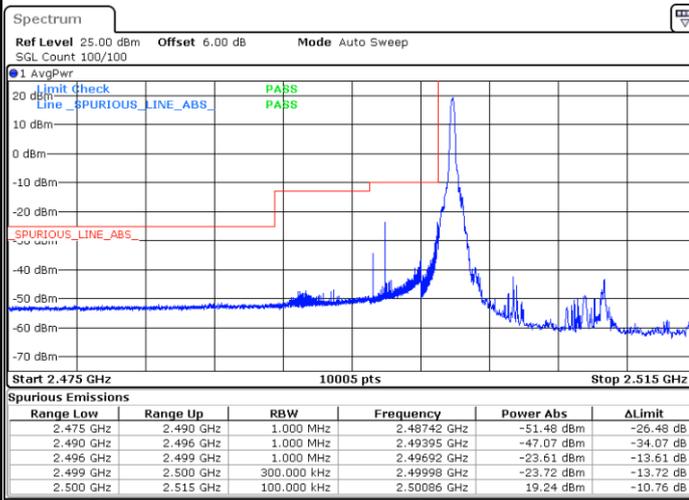


Date: 11.OCT.2022 11:11:21



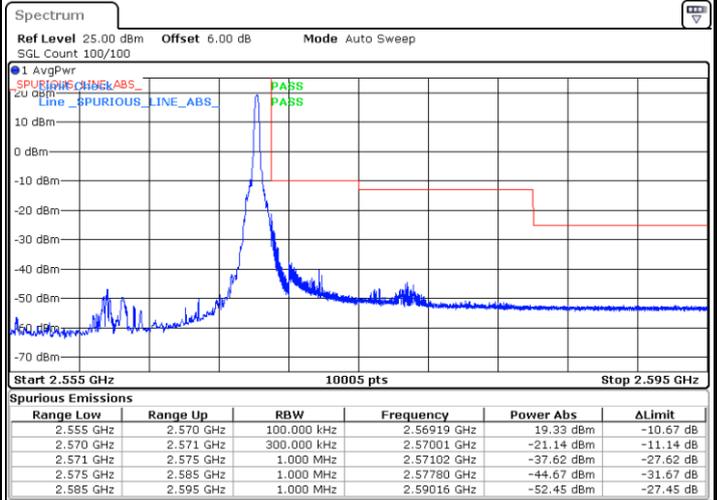
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



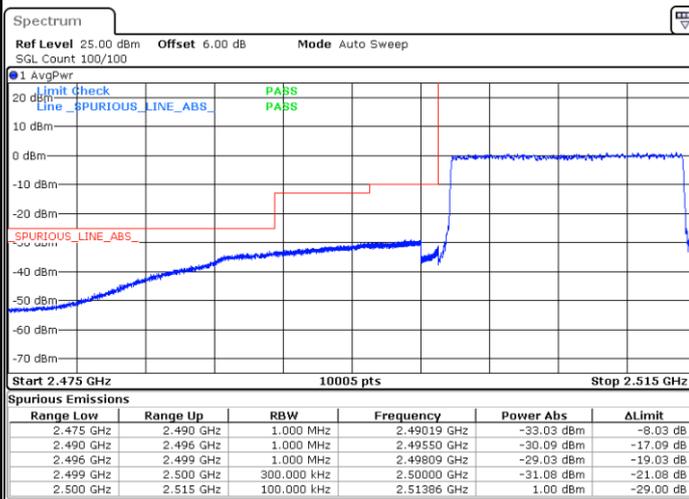
Date: 11.OCT.2022 10:55:00

Highest Band Edge / 1 RB



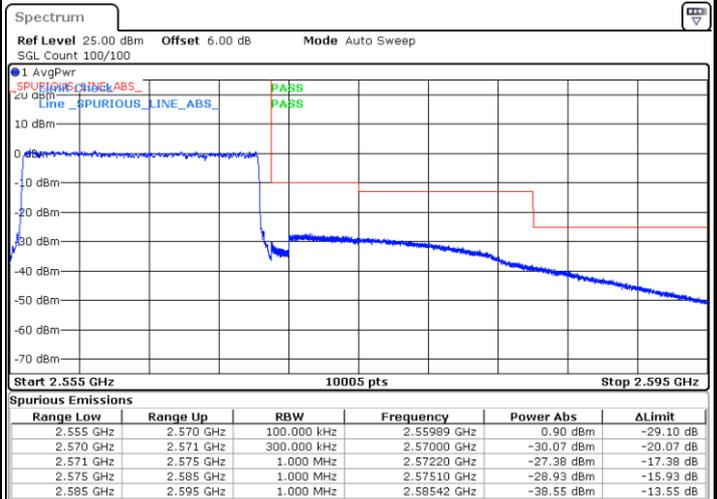
Date: 11.OCT.2022 11:05:54

Lowest Band Edge / Full RB



Date: 11.OCT.2022 10:59:06

Highest Band Edge / Full RB

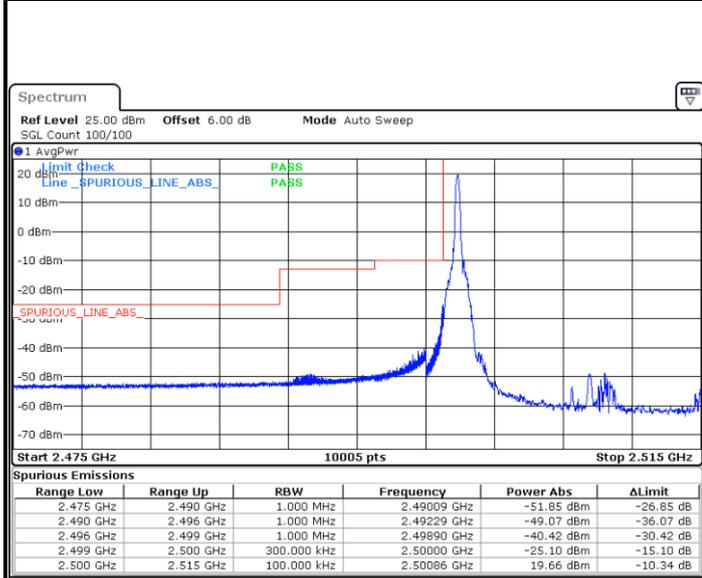


Date: 11.OCT.2022 11:09:59

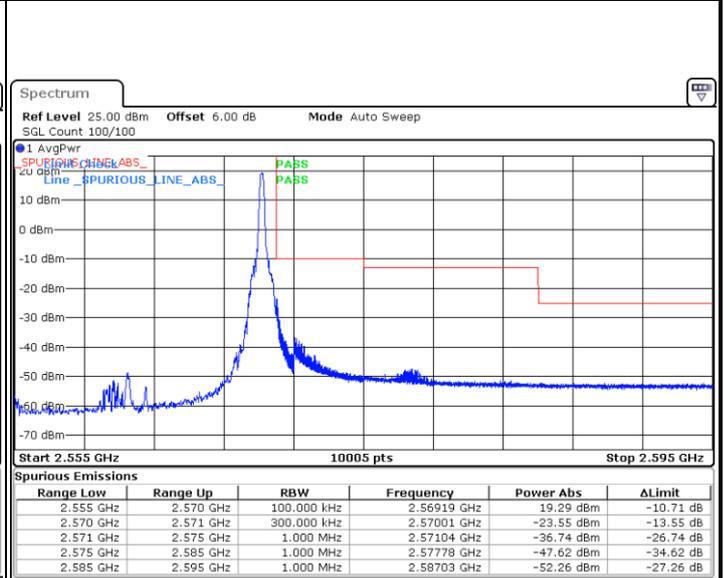


LTE Band 7 / 15MHz / 64QAM

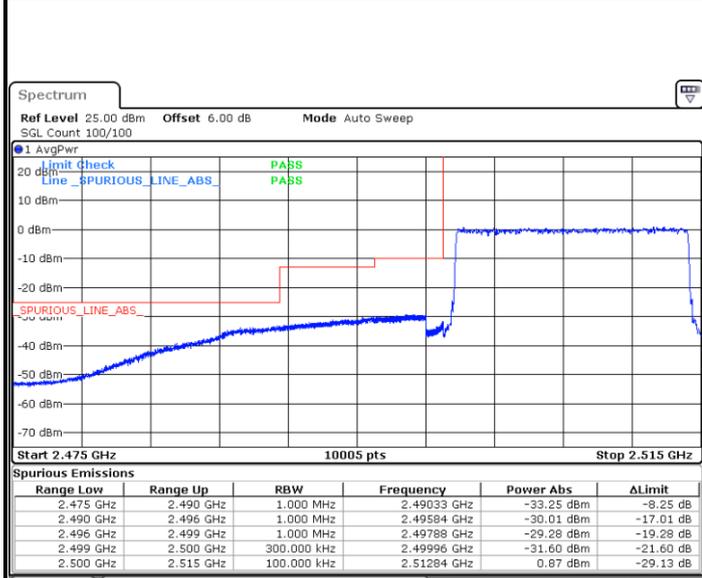
Lowest Band Edge / 1 RB



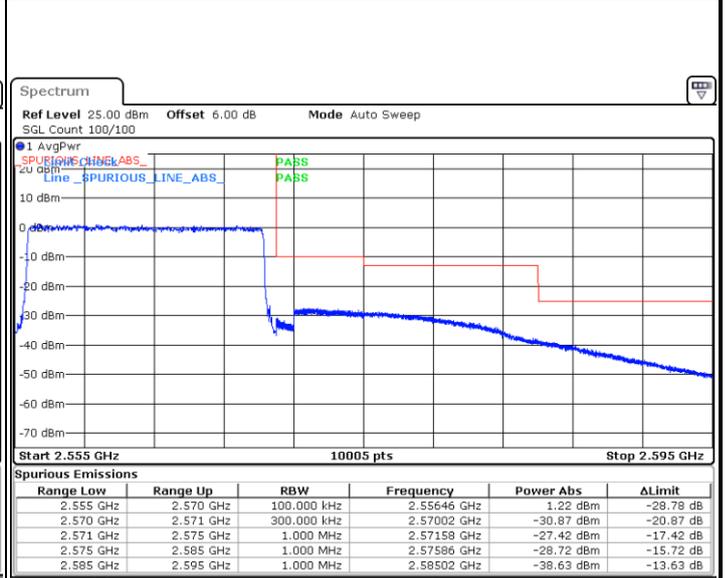
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

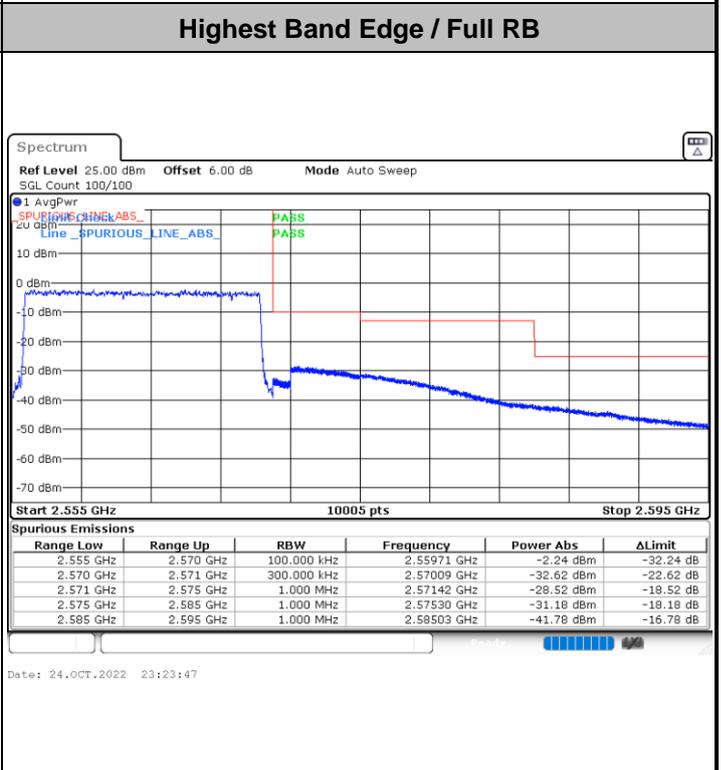
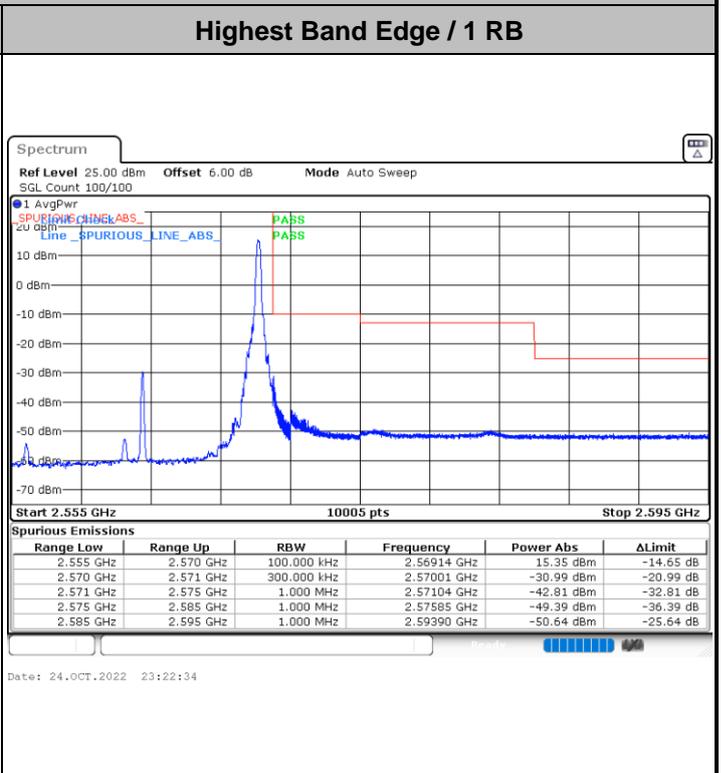
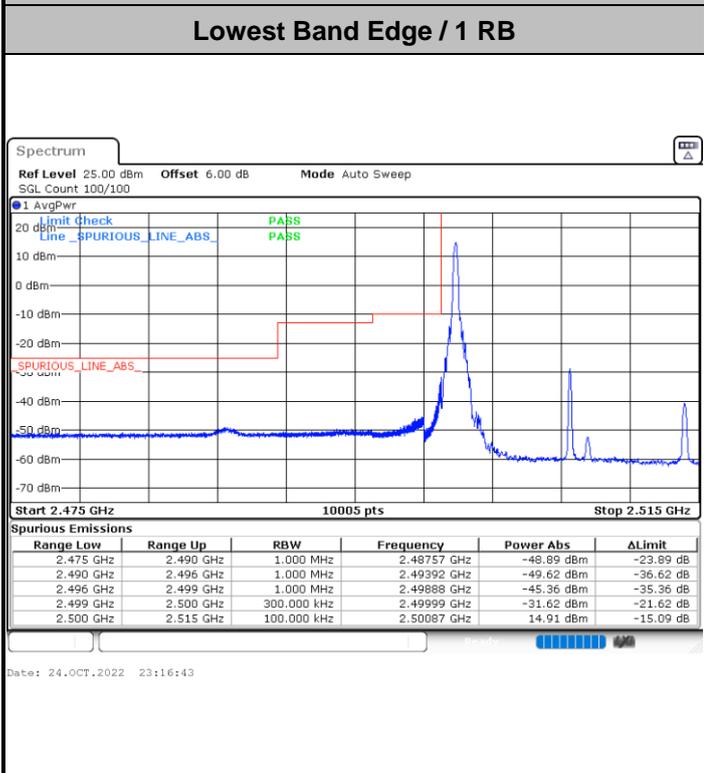


Highest Band Edge / Full RB





**LTE Band 7 / 15MHz / 256QAM**

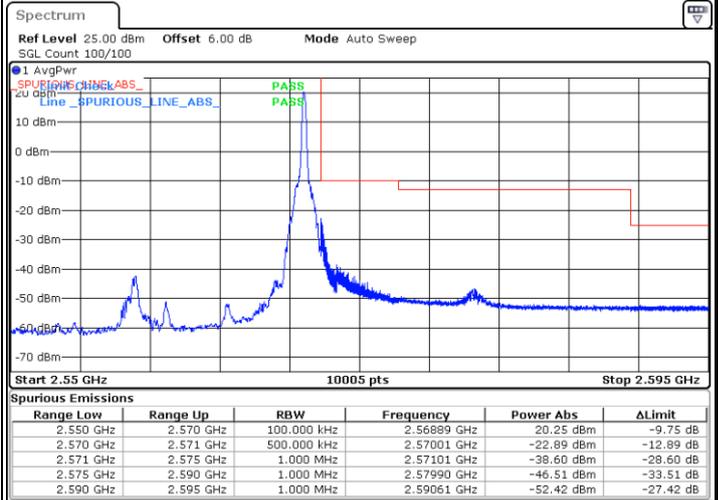
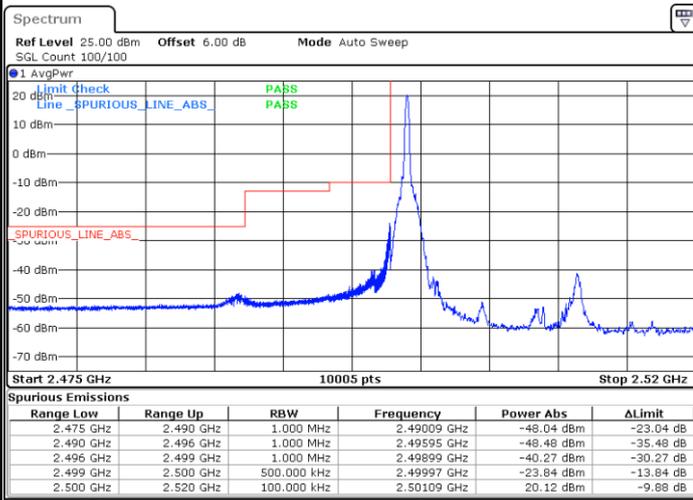




LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

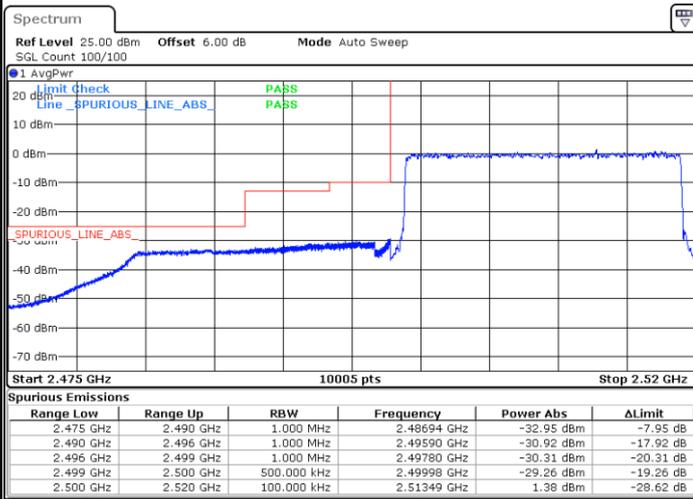


Date: 11.OCT.2022 11:14:05

Date: 11.OCT.2022 11:25:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



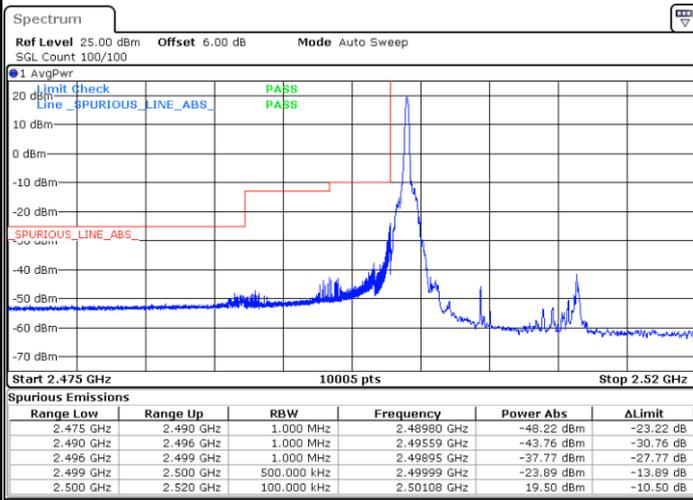
Date: 11.OCT.2022 11:20:56

Date: 11.OCT.2022 11:31:48



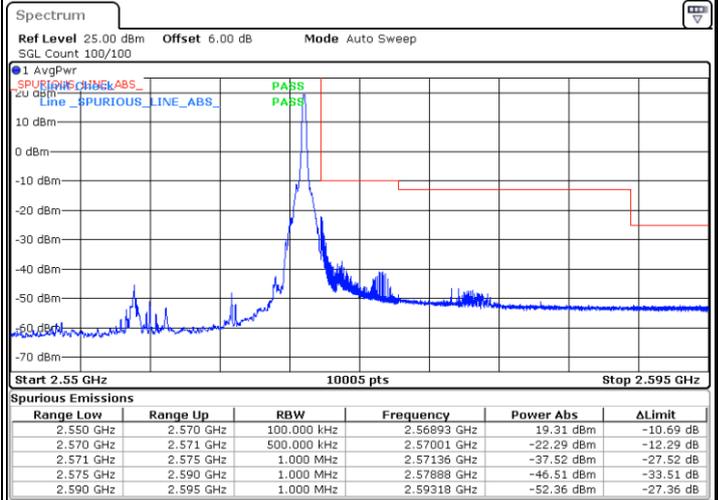
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



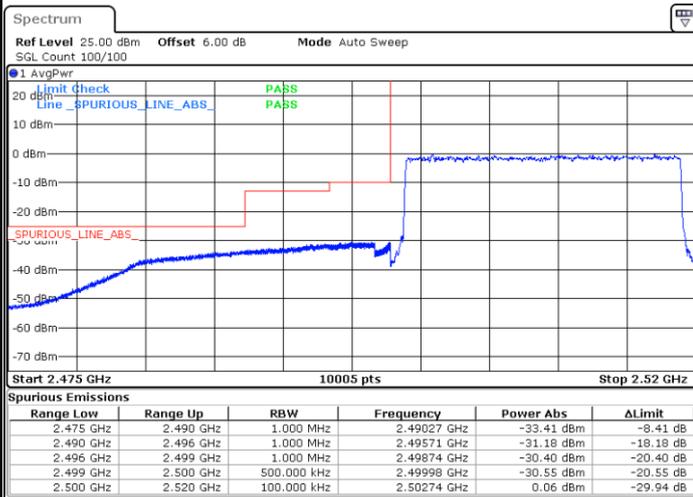
Date: 11.OCT.2022 11:15:27

Highest Band Edge / 1 RB



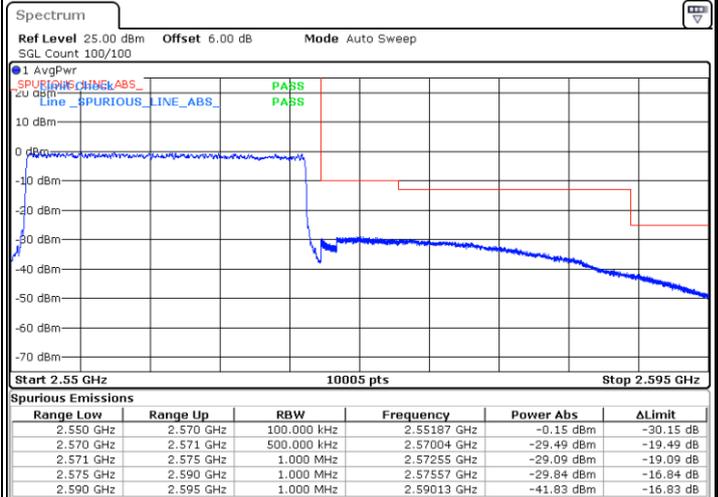
Date: 11.OCT.2022 11:26:21

Lowest Band Edge / Full RB



Date: 11.OCT.2022 11:19:34

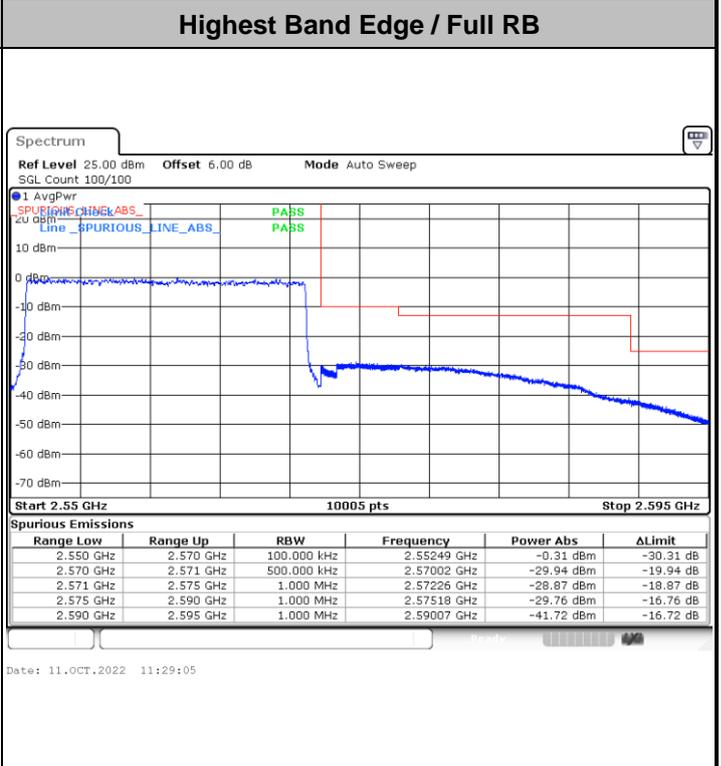
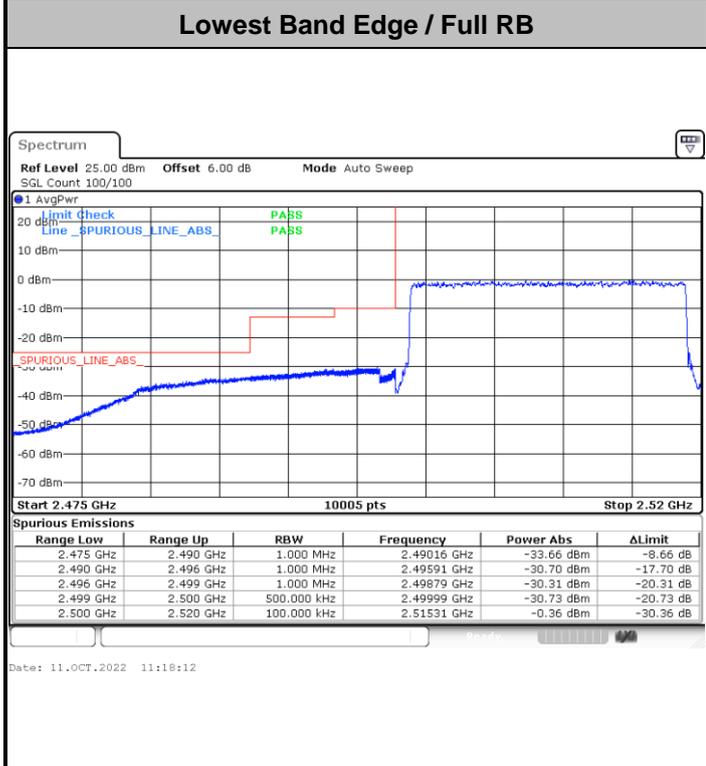
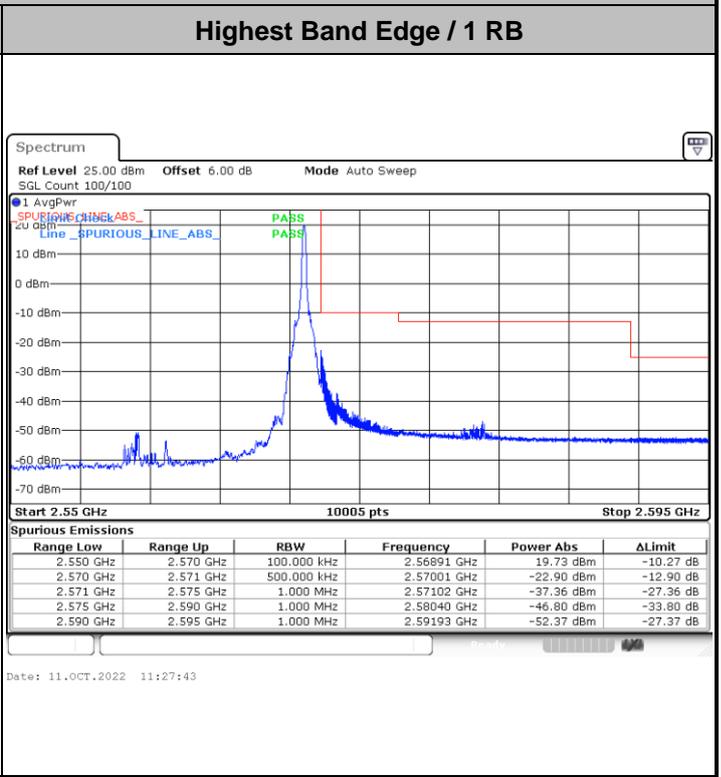
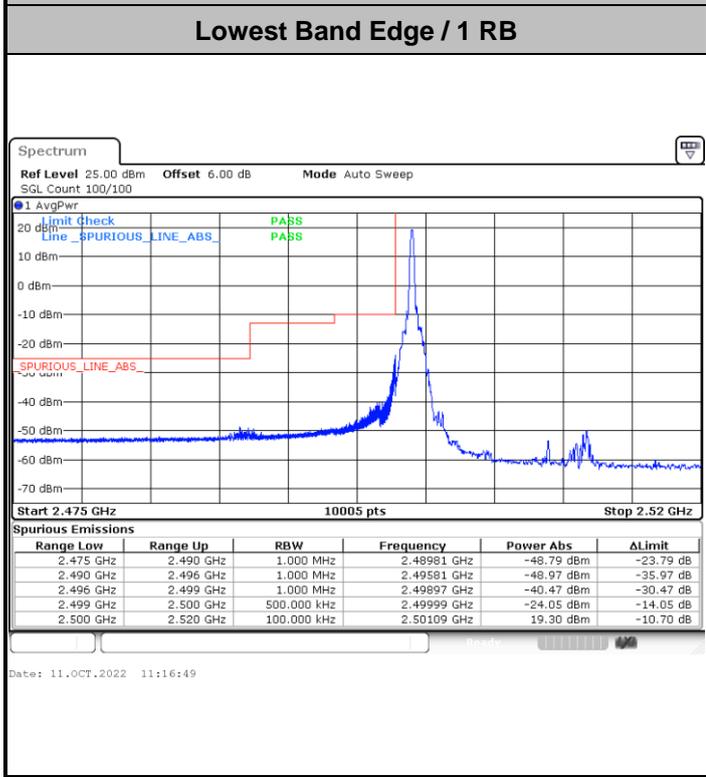
Highest Band Edge / Full RB



Date: 11.OCT.2022 11:30:26



**LTE Band 7 / 20MHz / 64QAM**

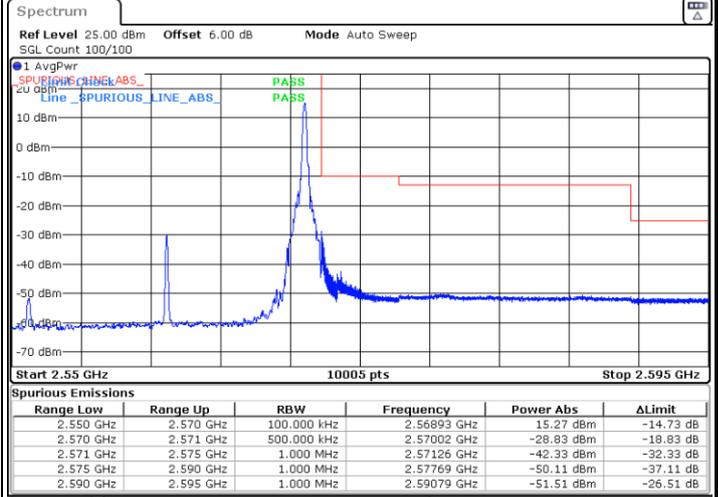
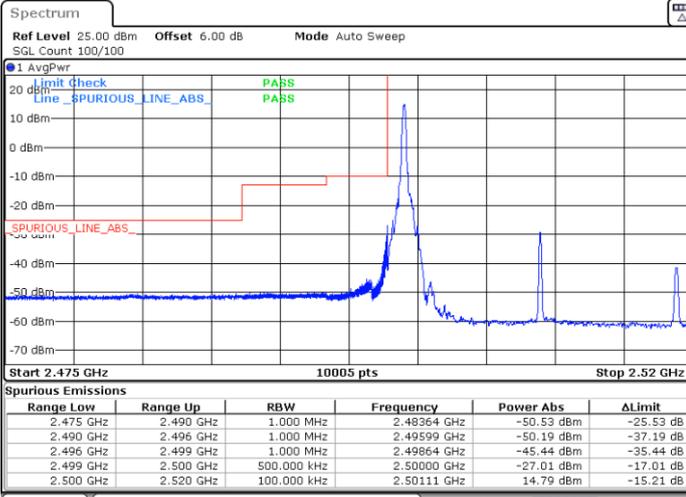




LTE Band 7 / 20MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

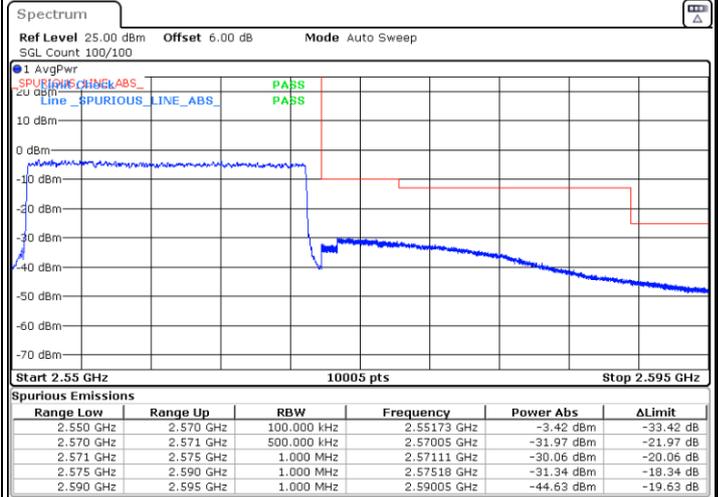
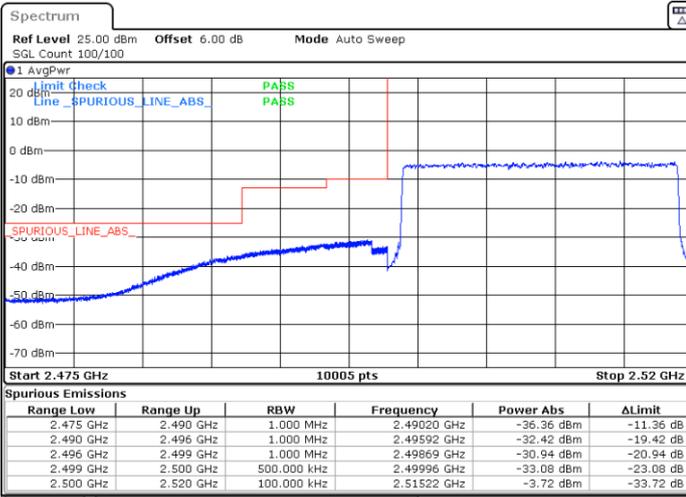


Date: 24.OCT.2022 23:27:37

Date: 24.OCT.2022 23:30:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.OCT.2022 23:28:50

Date: 24.OCT.2022 23:31:35



# Conducted Spurious Emission

