

**ELECTROMAGNETIC EMISSIONS  
COMPLIANCE REPORT**

**FCC Applicant:** ASUSTeK COMPUTER INC.  
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

**FCC Manufacturer:** ASUSTeK COMPUTER INC.  
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

**Product Name:** ASUS Phone(Mobile Phone)

**Brand Name:** ASUS

**Model No.:** ASUSAI2501E

**Family Model No.** ASUSAI2501D

**Model Difference:** Refer to section1.2

**Report Number:** TERF2407002105ER

**FCC ID** MSQAI2501

**Date of EUT Received:** July 01, 2024

**Date of Test:** July 17, 2024~November 20, 2024

**Issue Date:** November 20, 2024

Approved By \_\_\_\_\_

**Marcus Tseng**

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2 , 96.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2407002105ER	00	Original	November 15, 2024	Yuri Tsai	
TERF2407002105ER	01	Update section 1.3, 1.4 & 4.1	November 19, 2024	Yuri Tsai	*
TERF2407002105ER	02	Update section 7.4	November 20, 2024	Yuri Tsai	*

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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## 1 GENERAL PRODUCT INFORMATION

### 1.1 Product Description

Product Name:	ASUS Phone(Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUSAI2501E
Family Model No.	ASUSAI2501D
Hardware Version:	R2.0C
Firmware Version:	35.1400.1400.10
EUT Series No.:	S7AIOCN13282W8P & S7AIOCN13359SCN
Power Supply:	7.8 Vdc from Battery
Test Software (Name/Version)	Connect with Callbox

### 1.2 Model Difference

Model Name	ASUSAI2501D	ASUSAI2501E
3rd Camera	5MP Macro	32 MP Tele
LED Light	mini LED (85 pcs)	mini LED (648 pcs)
Memory	12/256, 12/512, 16/512	16/512, 24/1TB
Side USB port	Y	
Air trigger	Y	
Power	5800mAh, 65W	
Refresh Rate	185Hz	

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### 1.3 Antenna Designation

Antenna Type	Antenna Model No.
PIFA	Ant6
	Ant7
	Ant8
	Ant9

**Note:** Transmission frequencies in this test report are only available by the above antenna(s).

Type	Band	Frequency (MHz)	Peak Antenna Gain (dBi)			
			Ant6	Ant7	Ant8	Ant9
PIFA	LTE-Band 42	3550 ~ 3600	-1.3	-2.15	-2.4	-0.6
	LTE-Band 43	3600 ~ 3700	-1.7	-0.94	-0.4	-0.6
	LTE-Band 48	3550 ~ 3700	-2.0	-0.94	0.2	-0.6
	NR Band 48	3550 3700	-1.98	-0.94	-0.1	-0.6
	NR Band 77 / 78	3550 3700	-1.98	-0.94	-0.4	-0.6

**Note:** Antenna information is provided by the applicant.

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### 1.4 Operation Frequencies

LTE Band 42			LTE Band 43		
BW (MHz)	Operation Frequency (MHz)		BW (MHz)	Operation Frequency (MHz)	
5	3552.5	- 3597.5	5	3602.5	- 3697.5
10	3555.0	- 3595.0	10	3605.0	- 3695.0
15	3557.5	- 3592.5	15	3607.5	- 3692.5
20	3560.0	- 3590.0	20	3610.0	- 3690.0
LTE Band 48			LTE Band 48C		
BW (MHz)	Operation Frequency (MHz)		BW (MHz)	Operation Frequency (MHz)	
5	3552.5	- 3697.5	25	2562.5	- 3687.5
10	3555.0	- 3695.0	30	3565.0	- 3685.0
15	3557.5	- 3692.5	35	3567.5	- 3682.5
20	3560.0	- 3690.0	40	3570.0	- 3680.0

NR Band 48 / 77 / 78	
BW (MHz)	Operation Frequency (MHz)
10	3555.0 - 3695.0
15	3557.5 - 3692.5
20	3560.0 - 3690.0
30	3565.0 - 3685.0
40	3570.0 - 3680.0

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1.5 Maximum ERP/EIRP

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm/10MHz)		(W)	99%	Type of Emission
48	5	3552.5	3697.5	QPSK	22.59	EIRP	0.182	4.5046	4M50G7D
				16QAM	21.72	EIRP	0.149	4.5083	4M51D7W
				64QAM	20.80	EIRP	0.120	4.4958	4M50D7W
				256QAM	17.76	EIRP	0.060	4.5023	4M50D7W
48	10	3555.0	3695.0	QPSK	22.61	EIRP	<b>0.182</b>	9.0008	9M00G7D
				16QAM	21.92	EIRP	<b>0.156</b>	8.9711	8M97D7W
				64QAM	20.82	EIRP	<b>0.121</b>	8.9748	8M97D7W
				256QAM	17.61	EIRP	0.058	8.9721	8M97D7W
48	15	3557.5	3692.5	QPSK	22.54	EIRP	0.179	13.4660	13M5G7D
				16QAM	21.67	EIRP	0.147	13.4740	13M5D7W
				64QAM	20.81	EIRP	0.121	13.4470	13M4D7W
				256QAM	17.61	EIRP	0.058	13.4520	13M5D7W
48	20	3560.0	3690.0	QPSK	22.44	EIRP	0.175	17.9090	17M9G7D
				16QAM	21.76	EIRP	0.150	17.9800	18MOD7W
				64QAM	20.70	EIRP	0.117	17.9640	18MOD7W
				256QAM	18.19	EIRP	<b>0.066</b>	17.9620	18MOD7W

5G NR Band n48 Uplink frequency band : 3550 to 3700 MHz

Bandwidth (MHz)	Low Frequency (MHz)	Upper Frequency (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Type of Emission
10	3555	3694.98	DFT-s PI/2 BPSK	23.02	22.92	0.196	8.6055	8605.5	8M61G7W
			DFT-s QPSK	22.96	22.86	0.193	8.6184	8618.4	8M62G7W
			DFT-s QAM	21.31	21.21	0.132	8.6776	8677.6	8M68D7W
			CP QPSK	21.53	21.43	0.139	8.6184	8618.4	8M62G7W
			CP QAM	20.68	20.58	0.114	8.6776	8677.6	8M68D7W
15	3557.52	3692.49	DFT-s PI/2 BPSK	23.03	22.93	0.196	12.946	12946.0	12M9G7W
			DFT-s QPSK	22.90	22.80	0.191	12.968	12968.0	13M0G7W
			DFT-s QAM	21.23	21.13	0.130	12.997	12997.0	13M0D7W
			CP QPSK	21.11	21.01	0.126	12.968	12968.0	13M0G7W
			CP QAM	20.90	20.80	0.120	12.968	12968.0	13M0D7W
20	3560.01	3690	DFT-s PI/2 BPSK	22.96	22.86	0.193	17.964	17964.0	18M0G7W
			DFT-s QPSK	23.00	22.90	0.195	17.968	17968.0	18M0G7W
			DFT-s QAM	21.63	21.53	0.142	17.947	17947.0	17M9D7W
			CP QPSK	21.27	21.17	0.131	17.968	17968.0	18M0G7W
			CP QAM	20.57	20.47	0.111	17.947	17947.0	17M9D7W
30	3565.02	3684.99	DFT-s PI/2 BPSK	22.99	22.89	0.195	26.888	26888.0	26M9G7W
			DFT-s QPSK	23.00	22.90	0.195	26.902	26902.0	26M9G7W
			DFT-s QAM	21.68	21.58	0.144	26.921	26921.0	26M9D7W
			CP QPSK	21.88	21.78	0.151	26.902	26902.0	26M9G7W
			CP QAM	20.98	20.88	0.122	26.921	26921.0	26M9D7W
40	3570	3679.98	DFT-s PI/2 BPSK	23.05	22.95	0.197	35.68	35680.0	35M7G7W
			DFT-s QPSK	23.04	22.94	0.197	35.692	35692.0	35M7G7W
			DFT-s QAM	21.96	21.86	0.153	35.751	35751.0	35M8D7W
			CP QPSK	21.80	21.70	0.148	35.692	35692.0	35M7G7W
			CP QAM	21.09	20.99	0.126	35.751	35751.0	35M8D7W

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LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
48C	25	3553.3	3690.0	QPSK	20.26	EIRP	<b>0.106</b>	22.9110	22M9G7D
				16QAM	19.29	EIRP	0.085	23.0530	23M1D7W
				64QAM	17.65	EIRP	0.058	22.9630	23M0D7W
				256QAM	15.30	EIRP	0.034	22.9640	23M0D7W
48C	30	3555.5	3690.0	QPSK	20.15	EIRP	0.104	27.7720	27M8D7W
				16QAM	19.33	EIRP	0.086	27.7920	27M8D7W
				64QAM	17.42	EIRP	0.055	27.8220	27M8D7W
				256QAM	15.48	EIRP	0.035	27.7940	27M8D7W
48C	35	3557.8	3690.0	QPSK	19.71	EIRP	<b>0.094</b>	32.6900	32M7D7W
				16QAM	19.13	EIRP	0.082	32.6440	32M6D7W
				64QAM	17.49	EIRP	0.056	32.6650	32M7D7W
				256QAM	15.25	EIRP	0.033	32.6070	32M6D7W
48C	40	3560.0	3690.0	QPSK	19.67	EIRP	<b>0.093</b>	37.4630	37M5D7W
				16QAM	19.23	EIRP	0.084	37.5780	37M6D7W
				64QAM	17.31	EIRP	0.054	37.7230	37M7D7W
				256QAM	15.45	EIRP	0.035	37.6000	37M6D7W

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### 1.6 Test Methodology of Applied Standards

FCC 47 CFR Part 2, Part 96E

ANSI C63.26-2015

ANSI/ITA C603-E.2016

KDB 971168 D01 Power Meas license Digital System v03r01

KDB 940660 D01 Part 96 CBRS Eqpt v02

KDB 412172 D01 Determining ERP and EIRP V01r01

### 1.7 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	TW3702
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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## 1.8 Special Accessories

No special accessories were used during testing.

## 1.9 Equipment Modifications

There was no modifications incorporated into the EUT.

## 1.10 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*9m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

### 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 attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

#### Note:

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

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2.5 Final Amplifier Voltage and Current Information:

LTE Band 48

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 48_20M QPSK	7.8	411

LTE CA Band 48C

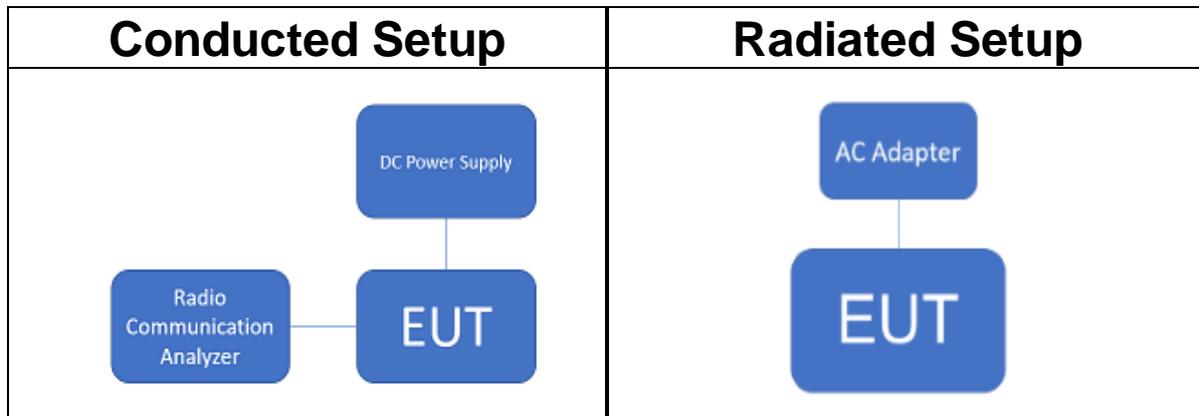
Test mode	DC voltage (V)	DC current (mA)
LTE CA Band 48C 20M+20M QPSK	7.8	408

5G NR BAND n48		
CP-OFDM_SCS 30 kHz		
Test mode	DC voltage (V)	DC current (mA)
Bandwidth:10MHz Mod:256QAM	7.8	137
Bandwidth:15MHz Mod:256QAM	7.8	141
Bandwidth:20MHz Mod:256QAM	7.8	135
Bandwidth:30MHz Mod:256QAM	7.8	146
Bandwidth:40MHz Mod:256QAM	7.8	144

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## 2.6 Test Configuration



**Note:** Radio Communication Analyzer is placed in remote side for radiated test.

## 2.7 Control Unit(s)

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	Shenzhen JingQuanHua & Everrise Intelligent Electric Co., Ltd	NSA65EU-20032500	N/A	N/A	N/A
USB Cable	ASAP	LA9U2030-CS-H	N/A	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §96.41(b)	Maximum Power Output	Compliant
§2.1046, §96.41(b)	Maximum Power Density	Compliant
§2.1053, §96.41(e)	FIELD STRENGTH OF SPURIOUS RADIATION	Compliant
§2.1051 §96.41(e)	OUT OF BAND EMISSION AT ANTENNA	Compliant
§2.1049,(h)	OCCUPIED BANDWIDTH	Compliant
§2.1055(a)	Frequency Stability	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. The LTE power / Bandwidth / Channels / CBSD of B42/43 is the same as that of B48, so the test items will be covered by B48.  
The NR power / Bandwidth / Channels / CBSD of n77/78 is the same as that of n48, so the test items will be covered by n48.
4. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

### 4.2 Measurement Configuration

Mode: LTE

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

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**Mode: ULCA**

Test Items	Band	Test Channel			Bandwidth (MHz)							Modulation				RB #				
		L	M	H	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	256QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Max. Output	48C	v	v	v				v	v	v	v	v	v	v					v	v
Frequency	48C	v	v	v				v	v	v	v	v	v	v						v

Test Items	Band	Test Channel			Bandwidth (MHz)							Modulation				RB #				
		L	M	H	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	256QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Conducted	48C	v	v	v				v			v	v								v

**Mode: 5GNR**

Test Items	Band	Test Channel			Bandwidth (MHz)																Modulation DFT-s-OFDM					Modulation CP-OFDM					RB #					
		L	M	H	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	BPSK	QPSK	16 QAM	64 QAM	256 QAM	QPSK	16 QAM	64 QAM	256 QAM	Edge 1RB_Left	Edge 1RB_Right	Inner 1RB_Left	Inner 1RB_Right	Inner Full	Outer Full		
Conducted Power	48	v	v	v	v	v	v	v	v	v	v									v	v	v	v	v	v	v	v					v	v	v	v	
Frequency Stability		v	v	v																																
Occupied Bandwidth		v	v	v	v	v	v	v	v	v	v										v	v	v	v	v											
Bandedge		v	v	v	v	v	v	v	v	v																										
Mask																					v								v	v						v
Conducted Emission		v	v	v	v	v	v	v	v	v	v																									
CCDF		v	v	v	v	v	v	v	v	v																										
Radiated Emission	v	v	v	v																v																

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Power Density	+/- 0.61 dB
RF Power Output	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.15 dB
	+/- 2.15 dB
Emission Bandwidth	+/- 1.38 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.77 dB
Peak to Average Ratio	+/- 0.97 dB
Frequency Stability vs. Temperature	+/- 1.48 Hz
Frequency Stability vs. Voltage	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	+/-	1.89	dB	9kHz~30MHz
	+/-	4.15	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89	dB	9kHz~30MHz
	+/-	4.02	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
	+/-	1.7	dB	60GHz-90GHz
	+/-	1.64	dB	90GHz-140GHz
	+/-	3.83	dB	140GHz-220GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Conducted Measurement

#### Mode: LTE

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
4G High Pass Filter	WI	WHKX4.0	21	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	11	12/12/2023	12/11/2024
DC Power Supply	Gwinstek	SPS-3610	GEV856733	12/04/2023	12/03/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
PXA Spectrum Analyzer	Keysight	N9030B	MY61330494	03/22/2024	03/21/2025
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/16/2024	01/15/2025
Splitter	Titan	T0510E2W118Q	22015158	12/12/2023	12/11/2024
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	06/05/2024	06/04/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

#### Mode: ULCA

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
4G High Pass Filter	WI	WHKX4.0	21	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	11	12/12/2023	12/11/2024
DC Power Supply	Gwinstek	SPS-3610	GEV856733	12/04/2023	12/03/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/04/2024	06/03/2025
PXA Spectrum Analyzer	Keysight	N9030B	MY61330494	03/22/2024	03/21/2025
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/16/2024	01/15/2025
Splitter	Titan	T0510E2W118Q	22015158	12/12/2023	12/11/2024
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	06/05/2024	06/04/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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Mode: 5GNR

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	14	12/12/2023	12/11/2024
DC Power Supply	Gwinstek	SPS-3610	GEW902152	01/18/2024	01/17/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
Radio Communication Analyzer	KEYSIGHT	E7515B	MY60191250	01/14/2024	01/13/2025
Splitter	Titan	T0510E2W118Q	22015158	12/12/2023	12/11/2024
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	06/05/2024	06/04/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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## 6.2 Radiated Measurement

Mode: LTE

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
4G High Pass Filter	WI	WHKX4.0	22	12/12/2023	12/11/2024
Band Reject Filter 2240-2700	WI	WRCJV 2300/2700- 2240/2760-40/12SS	1	12/12/2023	12/11/2024
Band Reject Filter 3250-3750	Micro-Tronics	BRM15247	1	12/12/2023	12/11/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102+SUCOFLEX 106	TX Cable 30M-40G 23051/2+76096/6+2 2962/2	08/30/2024	08/29/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025
Radio Communication Analyzer	Anritsu	MT8821C	6262044670	08/23/2024	08/22/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
Network Analyzer	R&S	ZNB 40	101842	05/16/2024	05/15/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/17/2024	07/16/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/15/2024	05/14/2025
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/28/2023	12/27/2024
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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Mode: ULCA

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
4G High Pass Filter	WI	WHKX4.0	22	12/12/2023	12/11/2024
Band Reject Filter 3250-3750	Micro-Tronics	BRM15247	1	12/12/2023	12/11/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102+SUCOFLEX 106	TX Cable 30M-40G 23051/2+76096/6+2 2962/2	08/30/2024	08/29/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025
Radio Communication Analyzer	Anritsu	MT8821C	6262044670	08/23/2024	08/22/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
Network Analyzer	R&S	ZNB 40	101842	05/16/2024	05/15/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/17/2024	07/16/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/15/2024	05/14/2025
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/28/2023	12/27/2024
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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**Mode: 5GNR**

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
1G High Pass Filter	Micro-Tronics	HPM50108	32	12/12/2023	12/11/2024
2G High Pass Filter	Micro-Tronics	HPM50110	36	12/12/2023	12/11/2024
Band Reject Filter 1700-2000	EWT	EWT-54-0038	M1	12/12/2023	12/11/2024
Band Reject Filter 3300-3900	WI	WRCGV3400/3800- 3300/3900-40/12SS	1	12/12/2023	12/11/2024
Band Reject Filter 800-1000	EWT	EWT-54-0037	M3R	12/12/2023	12/11/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/17/2024	07/16/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102+SUCOFLEX 106	TX Cable 30M-40G 23051/2+76096/6+2 2962/2	08/30/2024	08/29/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/15/2024	05/14/2025
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/28/2023	12/27/2024
Network Analyzer	R&S	ZNB 40	101842	05/16/2024	05/15/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Radio Communication Analyzer	KEYSIGHT	E7515B	MY59321566	02/15/2024	02/14/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

**Note: N.C.R refers to Not Calibrated Required.**

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## 7 MAXIMUM OUTPUT POWER MEASUREMENT

### 7.1 Standard Applicable

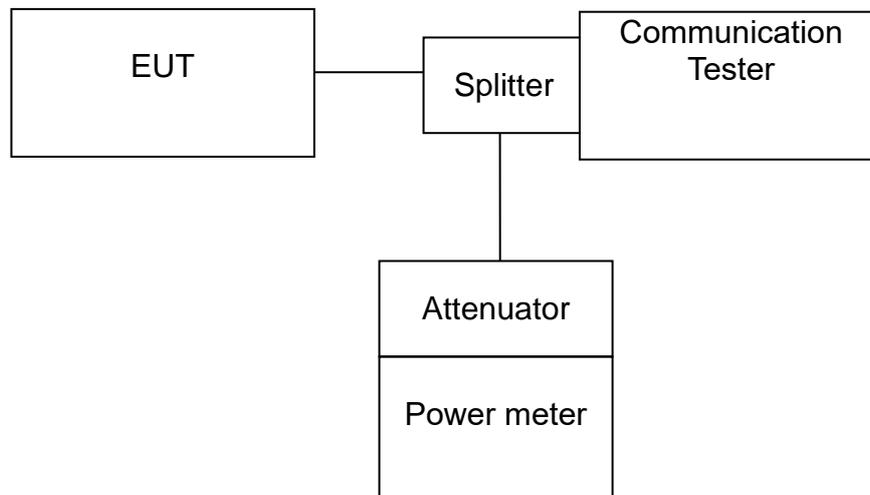
FCC §2.1046 & 96.41

- (a) FCC 96.41(a) Digital modulation. Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.
- (b) FCC 96.41(b) Power limits. Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD <sup>1</sup>	47

Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§96.15 and 96.67.

### 7.2 Test Set-up



**Note:** Measurement setup for testing on Antenna connector

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### 7.3 Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

#### Determining ERP and/or EIRP from conducted RF output power measurements

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT-LC}$$

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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7.4 Measurement Result:

Mode: LTE

Antenna gain (dBi)		0.2							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
5	55265	3552.5	QPSK	1	0	18.84	19.04	23	-3.96
				1	24	18.88	19.08	23	-3.92
				12	6	17.80	18.00	23	-5
				25	0	17.77	17.97	23	-5.03
	55990	3625	QPSK	1	0	19.01	19.21	23	-3.79
				1	24	18.98	19.18	23	-3.82
				12	6	17.97	18.17	23	-4.83
				25	0	17.88	18.08	23	-4.92
	56715	3697.5	QPSK	1	0	19.05	19.25	23	-3.75
				1	24	18.99	19.19	23	-3.81
				12	6	18.01	18.21	23	-4.79
				25	0	17.78	17.98	23	-5.02
5	55265	3552.5	16QAM	1	0	17.93	18.13	23	-4.87
				1	24	18.01	18.21	23	-4.79
				12	6	16.91	17.11	23	-5.89
				25	0	16.72	16.92	23	-6.08
	55990	3625	16QAM	1	0	18.15	18.35	23	-4.65
				1	24	18.25	18.45	23	-4.55
				12	6	17.07	17.27	23	-5.73
				25	0	16.92	17.12	23	-5.88
	56715	3697.5	16QAM	1	0	18.19	18.39	23	-4.61
				1	24	18.20	18.40	23	-4.6
				12	6	17.05	17.25	23	-5.75
				25	0	16.88	17.08	23	-5.92
5	55265	3552.5	64QAM	1	0	16.91	17.11	23	-5.89
				1	24	17.02	17.22	23	-5.78
				12	6	15.90	16.10	23	-6.9
				25	0	15.74	15.94	23	-7.06
	55990	3625	64QAM	1	0	17.00	17.20	23	-5.8
				1	24	17.25	17.45	23	-5.55
				12	6	16.00	16.20	23	-6.8
				25	0	15.90	16.10	23	-6.9
	56715	3697.5	64QAM	1	0	17.14	17.34	23	-5.66
				1	24	17.07	17.27	23	-5.73
				12	6	15.97	16.17	23	-6.83
				25	0	15.83	16.03	23	-6.97
5	55265	3552.5	256QAM	1	0	14.42	14.62	23	-8.38
				1	24	14.38	14.58	23	-8.42
				12	6	14.34	14.54	23	-8.46
				25	0	14.27	14.47	23	-8.53
	55990	3625	256QAM	1	0	14.49	14.69	23	-8.31
				1	24	14.44	14.64	23	-8.36
				12	6	14.33	14.53	23	-8.47
				25	0	14.23	14.43	23	-8.57
	56715	3697.5	256QAM	1	0	14.41	14.61	23	-8.39
				1	24	14.35	14.55	23	-8.45
				12	6	14.30	14.50	23	-8.5
				25	0	14.21	14.41	23	-8.59

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Antenna gain (dBi)		0.2							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
10	55290	3555	QPSK	1	0	18.81	19.01	23	-3.99
				1	49	18.97	19.17	23	-3.83
				25	12	17.83	18.03	23	-4.97
				50	0	17.77	17.97	23	-5.03
	55990	3625	QPSK	1	0	19.08	19.28	23	-3.72
				1	49	18.92	19.12	23	-3.88
				25	12	17.92	18.12	23	-4.88
				50	0	17.92	18.12	23	-4.88
	56690	3695	QPSK	1	0	19.01	19.21	23	-3.79
				1	49	19.06	19.26	23	-3.74
				25	12	17.93	18.13	23	-4.87
				50	0	17.91	18.11	23	-4.89
10	55290	3555	16QAM	1	0	17.99	18.19	23	-4.81
				1	49	18.00	18.20	23	-4.8
				25	12	16.86	17.06	23	-5.94
				50	0	16.75	16.95	23	-6.05
	55990	3625	16QAM	1	0	18.19	18.39	23	-4.61
				1	49	18.21	18.41	23	-4.59
				25	12	16.97	17.17	23	-5.83
				50	0	16.91	17.11	23	-5.89
	56690	3695	16QAM	1	0	18.01	18.21	23	-4.79
				1	49	18.23	18.43	23	-4.57
				25	12	16.96	17.16	23	-5.84
				50	0	16.89	17.09	23	-5.91
10	55290	3555	64QAM	1	0	16.91	17.11	23	-5.89
				1	49	17.08	17.28	23	-5.72
				25	12	15.87	16.07	23	-6.93
				50	0	15.76	15.96	23	-7.04
	55990	3625	64QAM	1	0	17.25	17.45	23	-5.55
				1	49	17.26	17.46	23	-5.54
				25	12	15.97	16.17	23	-6.83
				50	0	15.90	16.10	23	-6.9
	56690	3695	64QAM	1	0	17.05	17.25	23	-5.75
				1	49	17.27	17.47	23	-5.53
				25	12	16.00	16.20	23	-6.8
				50	0	15.90	16.10	23	-6.9
10	55290	3555	256QAM	1	0	14.52	14.72	23	-8.28
				1	49	14.43	14.63	23	-8.37
				25	12	14.34	14.54	23	-8.46
				50	0	14.19	14.39	23	-8.61
	55990	3625	256QAM	1	0	14.46	14.66	23	-8.34
				1	49	14.41	14.61	23	-8.39
				25	12	14.36	14.56	23	-8.44
				50	0	14.28	14.48	23	-8.52
	56690	3695	256QAM	1	0	14.43	14.63	23	-8.37
				1	49	14.39	14.59	23	-8.41
				25	12	14.35	14.55	23	-8.45
				50	0	14.22	14.42	23	-8.58

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Antenna gain (dBi)		0.2							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
15	55315	3557.5	QPSK	1	0	18.62	18.82	23	-4.18
				1	74	18.89	19.09	23	-3.91
				36	18	17.76	17.96	23	-5.04
				75	0	17.67	17.87	23	-5.13
	55990	3625	QPSK	1	0	18.73	18.93	23	-4.07
				1	74	18.88	19.08	23	-3.92
				36	18	17.88	18.08	23	-4.92
				75	0	17.85	18.05	23	-4.95
	56665	3692.5	QPSK	1	0	19.04	19.24	23	-3.76
				1	74	18.74	18.94	23	-4.06
				36	18	17.84	18.04	23	-4.96
				75	0	17.76	17.96	23	-5.04
15	55315	3557.5	16QAM	1	0	17.76	17.96	23	-5.04
				1	74	18.02	18.22	23	-4.78
				36	18	16.81	17.01	23	-5.99
				75	0	16.66	16.86	23	-6.14
	55990	3625	16QAM	1	0	18.17	18.37	23	-4.63
				1	74	18.11	18.31	23	-4.69
				36	18	16.90	17.10	23	-5.9
				75	0	16.89	17.09	23	-5.91
	56665	3692.5	16QAM	1	0	18.00	18.20	23	-4.8
				1	74	18.09	18.29	23	-4.71
				36	18	16.82	17.02	23	-5.98
				75	0	16.81	17.01	23	-5.99
15	55315	3557.5	64QAM	1	0	16.94	17.14	23	-5.86
				1	74	16.99	17.19	23	-5.81
				36	18	15.77	15.97	23	-7.03
				75	0	15.71	15.91	23	-7.09
	55990	3625	64QAM	1	0	16.99	17.19	23	-5.81
				1	74	17.01	17.21	23	-5.79
				36	18	15.87	16.07	23	-6.93
				75	0	15.83	16.03	23	-6.97
	56665	3692.5	64QAM	1	0	16.93	17.13	23	-5.87
				1	74	17.23	17.43	23	-5.57
				36	18	15.80	16.00	23	-7
				75	0	15.82	16.02	23	-6.98
15	55315	3557.5	256QAM	1	0	14.48	14.68	23	-8.32
				1	74	14.41	14.61	23	-8.39
				36	18	14.39	14.59	23	-8.41
				75	0	14.24	14.44	23	-8.56
	55990	3625	256QAM	1	0	14.45	14.65	23	-8.35
				1	74	14.42	14.62	23	-8.38
				36	18	14.38	14.58	23	-8.42
				75	0	14.31	14.51	23	-8.49
	56665	3692.5	256QAM	1	0	14.52	14.72	23	-8.28
				1	74	14.36	14.56	23	-8.44
				36	18	14.32	14.52	23	-8.48
				75	0	14.20	14.40	23	-8.6

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Antenna gain (dBi)		0.2							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
20	55340	3560	QPSK	1	0	18.64	18.84	23	-4.16
				1	99	18.72	18.92	23	-4.08
				50	25	17.74	17.94	23	-5.06
				100	0	17.68	17.88	23	-5.12
	55990	3625	QPSK	1	0	19.06	<b>19.26</b>	23	-3.74
				1	99	18.70	18.90	23	-4.1
				50	25	17.94	18.14	23	-4.86
				100	0	17.88	18.08	23	-4.92
	56640	3690	QPSK	1	0	18.73	18.93	23	-4.07
				1	99	19.05	19.25	23	-3.75
				50	25	17.82	18.02	23	-4.98
				100	0	17.82	18.02	23	-4.98
20	55340	3560	16QAM	1	0	17.91	18.11	23	-4.89
				1	99	18.02	18.22	23	-4.78
				50	25	16.73	16.93	23	-6.07
				100	0	16.73	16.93	23	-6.07
	55990	3625	16QAM	1	0	18.13	18.33	23	-4.67
				1	99	18.19	18.39	23	-4.61
				50	25	16.94	17.14	23	-5.86
				100	0	16.88	17.08	23	-5.92
	56640	3690	16QAM	1	0	17.89	18.09	23	-4.91
				1	99	18.27	<b>18.47</b>	23	-4.53
				50	25	16.85	17.05	23	-5.95
				100	0	16.81	17.01	23	-5.99
20	55340	3560	64QAM	1	0	16.79	16.99	23	-6.01
				1	99	17.03	17.23	23	-5.77
				50	25	15.79	15.99	23	-7.01
				100	0	15.74	15.94	23	-7.06
	55990	3625	64QAM	1	0	17.12	17.32	23	-5.68
				1	99	17.27	<b>17.47</b>	23	-5.53
				50	25	15.96	16.16	23	-6.84
				100	0	15.81	16.01	23	-6.99
	56640	3690	64QAM	1	0	17.11	17.31	23	-5.69
				1	99	17.17	17.37	23	-5.63
				50	25	15.81	16.01	23	-6.99
				100	0	15.79	15.99	23	-7.01
20	55340	3560	256QAM	1	0	14.51	<b>14.71</b>	23	-8.29
				1	99	14.38	14.58	23	-8.42
				50	25	14.40	14.60	23	-8.4
				100	0	14.28	14.48	23	-8.52
	55990	3625	256QAM	1	0	14.45	14.65	23	-8.35
				1	99	14.40	14.60	23	-8.4
				50	25	14.21	14.41	23	-8.59
				100	0	14.15	14.35	23	-8.65
	56640	3690	256QAM	1	0	14.50	14.70	23	-8.3
				1	99	14.48	14.68	23	-8.32
				50	25	14.32	14.52	23	-8.48
				100	0	14.18	14.38	23	-8.62

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Antenna gain (dBi)		0.2							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dBm)
5	55265	3552.5	QPSK	1	0	18.03	18.23	23	-4.77
				1	24	17.75	17.95	23	-5.05
				12	6	17.20	17.40	23	-5.6
				25	0	17.13	17.33	23	-5.67
	55990	3625	QPSK	1	0	17.64	17.84	23	-5.16
				1	24	17.81	18.01	23	-4.99
				12	6	17.07	17.27	23	-5.73
	56715	3697.5	QPSK	25	0	17.22	17.42	23	-5.58
				1	0	18.70	18.90	23	-4.1
				1	24	17.61	17.81	23	-5.19
				12	6	17.20	17.40	23	-5.6
	5	55265	3552.5	16QAM	25	0	16.72	16.92	23
1					0	17.05	17.25	23	-5.75
1					24	17.55	17.75	23	-5.25
12					6	16.05	16.25	23	-6.75
55990		3625	16QAM	25	0	15.78	15.98	23	-7.02
				1	0	17.40	17.60	23	-5.4
				1	24	17.90	18.10	23	-4.9
				12	6	15.65	15.85	23	-7.15
56715		3697.5	16QAM	25	0	16.22	16.42	23	-6.58
				1	0	17.54	17.74	23	-5.26
				1	24	17.84	18.04	23	-4.96
				12	6	16.34	16.54	23	-6.46
5	55265	3552.5	64QAM	25	0	15.48	15.68	23	-7.32
				1	0	15.89	16.09	23	-6.91
				1	24	16.80	17.00	23	-6
				12	6	14.86	15.06	23	-7.94
	55990	3625	64QAM	25	0	14.92	15.12	23	-7.88
				1	0	15.88	16.08	23	-6.92
				1	24	16.90	17.10	23	-5.9
				12	6	14.87	15.07	23	-7.93
	56715	3697.5	64QAM	25	0	14.92	15.12	23	-7.88
				1	0	16.81	17.01	23	-5.99
				1	24	15.95	16.15	23	-6.85
				12	6	14.63	14.83	23	-8.17
5	55265	3552.5	256QAM	25	0	14.81	15.01	23	-7.99
				1	0	13.52	13.72	23	-9.28
				1	24	13.68	13.88	23	-9.12
				12	6	13.66	13.86	23	-9.14
	55990	3625	256QAM	25	0	13.49	13.69	23	-9.31
				1	0	14.14	14.34	23	-8.66
				1	24	13.78	13.98	23	-9.02
				12	6	13.64	13.84	23	-9.16
	56715	3697.5	256QAM	25	0	13.08	13.28	23	-9.72
				1	0	13.61	13.81	23	-9.19
				1	24	13.02	13.22	23	-9.78
				12	6	13.00	13.20	23	-9.8
56715	3697.5	256QAM	25	0	13.42	13.62	23	-9.38	

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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

Antenna gain (dBi)		0.2							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dBm)
10	55290	3555	QPSK	1	0	18.53	18.73	23	-4.27
				1	49	18.76	18.96	23	-4.04
				25	12	17.33	17.53	23	-5.47
				50	0	17.23	17.43	23	-5.57
	55990	3625	QPSK	1	0	18.93	19.13	23	-3.87
				1	49	18.89	19.09	23	-3.91
				25	12	17.38	17.58	23	-5.42
				50	0	17.15	17.35	23	-5.65
	56690	3695	QPSK	1	0	18.41	18.61	23	-4.39
				1	49	18.81	19.01	23	-3.99
				25	12	17.23	17.43	23	-5.57
				50	0	17.39	17.59	23	-5.41
10	55290	3555	16QAM	1	0	17.84	18.04	23	-4.96
				1	49	17.38	17.58	23	-5.42
				25	12	16.19	16.39	23	-6.61
				50	0	16.38	16.58	23	-6.42
	55990	3625	16QAM	1	0	17.77	17.97	23	-5.03
				1	49	17.54	17.74	23	-5.26
				25	12	16.52	16.72	23	-6.28
				50	0	16.84	17.04	23	-5.96
	56690	3695	16QAM	1	0	17.43	17.63	23	-5.37
				1	49	18.08	18.28	23	-4.72
				25	12	16.63	16.83	23	-6.17
				50	0	16.16	16.36	23	-6.64
10	55290	3555	64QAM	1	0	16.13	16.33	23	-6.67
				1	49	16.61	16.81	23	-6.19
				25	12	15.71	15.91	23	-7.09
				50	0	15.08	15.28	23	-7.72
	55990	3625	64QAM	1	0	17.11	17.31	23	-5.69
				1	49	16.99	17.19	23	-5.81
				25	12	15.91	16.11	23	-6.89
				50	0	15.33	15.53	23	-7.47
	56690	3695	64QAM	1	0	16.33	16.53	23	-6.47
				1	49	17.12	17.32	23	-5.68
				25	12	15.63	15.83	23	-7.17
				50	0	15.64	15.84	23	-7.16
10	55290	3555	256QAM	1	0	14.37	14.57	23	-8.43
				1	49	13.72	13.92	23	-9.08
				25	12	14.05	14.25	23	-8.75
				50	0	13.49	13.69	23	-9.31
	55990	3625	256QAM	1	0	14.02	14.22	23	-8.78
				1	49	14.26	14.46	23	-8.54
				25	12	14.10	14.30	23	-8.7
				50	0	14.21	14.41	23	-8.59
	56690	3695	256QAM	1	0	14.20	14.40	23	-8.6
				1	49	13.84	14.04	23	-8.96
				25	12	14.07	14.27	23	-8.73
				50	0	14.10	14.30	23	-8.7

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Antenna gain (dBi)		0.2								
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dBm)	
15	55315	3557.5	QPSK	1	0	17.91	18.11	23	-4.89	
				1	74	18.75	18.95	23	-4.05	
				36	18	17.67	17.87	23	-5.13	
				75	0	17.35	17.55	23	-5.45	
	55990	3625	QPSK	1	0	18.65	18.85	23	-4.15	
				1	74	18.45	18.65	23	-4.35	
				36	18	17.87	18.07	23	-4.93	
	56665	3692.5	QPSK	75	0	17.46	17.66	23	-5.34	
				1	0	18.89	19.09	23	-3.91	
				1	74	18.52	18.72	23	-4.28	
	15	55315	3557.5	16QAM	36	18	17.72	17.92	23	-5.08
					75	0	17.44	17.64	23	-5.36
1					0	17.02	17.22	23	-5.78	
1					74	17.90	18.10	23	-4.9	
55990		3625	16QAM	36	18	16.35	16.55	23	-6.45	
				75	0	16.60	16.80	23	-6.2	
				1	0	18.02	18.22	23	-4.78	
56665		3692.5	16QAM	1	74	17.33	17.53	23	-5.47	
				36	18	16.30	16.50	23	-6.5	
				75	0	16.88	17.08	23	-5.92	
15		55315	3557.5	64QAM	1	0	17.31	17.51	23	-5.49
					1	74	18.01	18.21	23	-4.79
	36				18	16.02	16.22	23	-6.78	
	75				0	16.04	16.24	23	-6.76	
	55990	3625	64QAM	1	0	16.84	17.04	23	-5.96	
				1	74	16.63	16.83	23	-6.17	
				36	18	15.10	15.30	23	-7.7	
	56665	3692.5	64QAM	75	0	15.70	15.90	23	-7.1	
				1	0	16.49	16.69	23	-6.31	
				1	74	16.22	16.42	23	-6.58	
	15	55315	3557.5	256QAM	36	18	15.07	15.27	23	-7.73
					75	0	15.36	15.56	23	-7.44
1					0	16.60	16.80	23	-6.2	
1					74	17.08	17.28	23	-5.72	
55990		3625	256QAM	36	18	15.69	15.89	23	-7.11	
				75	0	15.66	15.86	23	-7.14	
				1	0	14.10	14.30	23	-8.7	
56665		3692.5	256QAM	1	74	13.65	13.85	23	-9.15	
				36	18	14.30	14.50	23	-8.5	
				75	0	13.90	14.10	23	-8.9	
15		55315	3557.5	256QAM	1	0	14.17	14.37	23	-8.63
					1	74	13.79	13.99	23	-9.01
	36				18	14.04	14.24	23	-8.76	
	75				0	14.05	14.25	23	-8.75	
	55990	3625	256QAM	1	0	14.37	14.57	23	-8.43	
				1	74	13.63	13.83	23	-9.17	
				36	18	14.17	14.37	23	-8.63	
	56665	3692.5	256QAM	75	0	13.42	13.62	23	-9.38	

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Antenna gain (dBi)		0.2							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dBm)
20	55340	3560	QPSK	1	0	18.16	18.36	23	-4.64
				1	99	18.64	18.84	23	-4.16
				50	25	17.44	17.64	23	-5.36
				100	0	16.97	17.17	23	-5.83
	55990	3625	QPSK	1	0	18.91	19.11	23	-3.89
				1	99	18.03	18.23	23	-4.77
				50	25	17.81	18.01	23	-4.99
				100	0	17.49	17.69	23	-5.31
	56640	3690	QPSK	1	0	18.33	18.53	23	-4.47
				1	99	18.26	18.46	23	-4.54
				50	25	17.48	17.68	23	-5.32
				100	0	17.49	17.69	23	-5.31
20	55340	3560	16QAM	1	0	17.67	17.87	23	-5.13
				1	99	17.68	17.88	23	-5.12
				50	25	15.96	16.16	23	-6.84
				100	0	16.10	16.30	23	-6.7
	55990	3625	16QAM	1	0	17.87	18.07	23	-4.93
				1	99	18.01	18.21	23	-4.79
				50	25	16.44	16.64	23	-6.36
				100	0	16.13	16.33	23	-6.67
	56640	3690	16QAM	1	0	17.62	17.82	23	-5.18
				1	99	18.12	18.32	23	-4.68
				50	25	16.45	16.65	23	-6.35
				100	0	16.38	16.58	23	-6.42
20	55340	3560	64QAM	1	0	16.11	16.31	23	-6.69
				1	99	16.37	16.57	23	-6.43
				50	25	14.99	15.19	23	-7.81
				100	0	15.17	15.37	23	-7.63
	55990	3625	64QAM	1	0	16.64	16.84	23	-6.16
				1	99	17.12	17.32	23	-5.68
				50	25	15.22	15.42	23	-7.58
				100	0	15.43	15.63	23	-7.37
	56640	3690	64QAM	1	0	16.98	17.18	23	-5.82
				1	99	16.77	16.97	23	-6.03
				50	25	15.67	15.87	23	-7.13
				100	0	15.02	15.22	23	-7.78
20	55340	3560	256QAM	1	0	14.36	14.56	23	-8.44
				1	99	14.02	14.22	23	-8.78
				50	25	14.35	14.55	23	-8.45
				100	0	14.27	14.47	23	-8.53
	55990	3625	256QAM	1	0	13.78	13.98	23	-9.02
				1	99	14.13	14.33	23	-8.67
				50	25	13.61	13.81	23	-9.19
				100	0	13.88	14.08	23	-8.92
	56640	3690	256QAM	1	0	13.96	14.16	23	-8.84
				1	99	14.04	14.24	23	-8.76
				50	25	13.97	14.17	23	-8.83
				100	0	14.07	14.27	23	-8.73

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Mode: ULCA

Part 27 EIRP Limit (dBm/10MHz)	23
Antenna Gain	0.2

OUTPUT POWER FOR LTE BAND 48C (5MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm/10MHz)	(W/10MHz)
5MHz+20MHz	55273	3553.3	55390	3565.0	QPSK	1	24	1	0	17.00	19.99	20.00	20.20	0.105
						25	0	100	0	14.95	15.33	17.88	18.08	0.064
	55898	3615.8	56015	3627.5	QPSK	1	24	1	0	17.00	19.98	19.99	20.19	0.104
						25	0	100	0	15.07	15.29	17.94	18.14	0.065
	56523	3678.3	56640	3690.0	QPSK	1	24	1	0	17.06	20.05	20.06	20.26	0.106
						25	0	100	0	15.17	15.43	18.05	18.25	0.067
5MHz+20MHz	55273	3553.3	55390	3565.0	16QAM	1	24	1	0	15.85	18.54	18.55	18.75	0.075
						25	0	100	0	14.09	14.37	16.98	17.18	0.052
	55898	3615.8	56015	3627.5	16QAM	1	24	1	0	15.91	18.95	18.95	19.15	0.082
						25	0	100	0	14.21	14.38	17.06	17.26	0.053
	56523	3678.3	56640	3690.0	16QAM	1	24	1	0	15.96	18.82	18.82	19.02	0.080
						25	0	100	0	14.12	14.49	17.06	17.26	0.053
5MHz+20MHz	55273	3553.3	55390	3565.0	64QAM	1	24	1	0	14.04	17.08	17.08	17.28	0.053
						25	0	100	0	13.92	14.26	16.83	17.03	0.050
	55898	3615.8	56015	3627.5	64QAM	1	24	1	0	14.44	17.45	17.45	17.65	0.058
						25	0	100	0	14.15	14.40	17.03	17.23	0.053
	56523	3678.3	56640	3690.0	64QAM	1	24	1	0	14.13	17.27	17.27	17.47	0.056
						25	0	100	0	14.08	14.27	16.93	17.13	0.052
5MHz+20MHz	55273	3553.3	55390	3565.0	256QAM	1	24	1	0	11.87	15.06	15.06	15.26	0.034
						25	0	100	0	12.01	12.37	14.95	15.15	0.033
	55898	3615.8	56015	3627.5	256QAM	1	24	1	0	12.20	15.10	15.10	15.30	0.034
						25	0	100	0	12.12	12.38	14.99	15.19	0.033
	56523	3678.3	56640	3690.0	256QAM	1	24	1	0	12.19	14.99	14.99	15.19	0.033
						25	0	100	0	12.00	12.30	14.92	15.12	0.033

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Part 27_ EIRP Limit (dBm/10MHz)		23												
Antenna Gain		0.2												
OUTPUT POWER FOR LTE BAND 48C (20MHz + 5MHz)														
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm/10MHz)	(W/10MHz)
20MHz+5MHz	55340	3560.0	55457	3571.7	QPSK	1	99	1	0	19.82	16.81	19.83	20.03	0.101
						100	0	25	0	15.58	14.90	18.00	18.20	0.066
	55965	3622.5	56082	3634.2	QPSK	1	99	1	0	19.60	16.59	19.61	19.81	0.096
						100	0	25	0	15.56	14.79	17.95	18.15	0.065
	56590	3685.0	56707	3696.7	QPSK	1	99	1	0	19.71	16.70	19.72	19.92	0.098
						100	0	25	0	15.53	14.89	18.00	18.20	0.066
20MHz+5MHz	55340	3560.0	55457	3571.7	16QAM	1	99	1	0	18.87	15.98	18.87	19.07	0.081
						100	0	25	0	14.54	13.92	17.00	17.20	0.052
	55965	3622.5	56082	3634.2	16QAM	1	99	1	0	19.01	15.98	19.01	19.21	0.083
						100	0	25	0	14.55	13.84	16.97	17.17	0.052
	56590	3685.0	56707	3696.7	16QAM	1	99	1	0	19.09	16.38	19.09	19.29	0.085
						100	0	25	0	14.52	13.95	17.01	17.21	0.053
20MHz+5MHz	55340	3560.0	55457	3571.7	64QAM	1	99	1	0	17.02	13.76	17.02	17.22	0.053
						100	0	25	0	14.50	13.83	16.93	17.13	0.052
	55965	3622.5	56082	3634.2	64QAM	1	99	1	0	17.19	14.17	17.19	17.39	0.055
						100	0	25	0	14.54	13.80	16.95	17.15	0.052
	56590	3685.0	56707	3696.7	64QAM	1	99	1	0	17.08	14.08	17.08	17.28	0.053
						100	0	25	0	14.50	13.84	16.95	17.15	0.052
20MHz+5MHz	55340	3560.0	55457	3571.7	256QAM	1	99	1	0	15.01	12.09	15.01	15.21	0.033
						100	0	25	0	12.55	11.85	14.97	15.17	0.033
	55965	3622.5	56082	3634.2	256QAM	1	99	1	0	15.00	11.97	15.00	15.20	0.033
						100	0	25	0	12.50	11.89	14.97	15.17	0.033
	56590	3685.0	56707	3696.7	256QAM	1	99	1	0	15.00	12.09	15.00	15.20	0.033
						100	0	25	0	12.54	11.86	14.96	15.16	0.033

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Part 27_ EIRP Limit (dBm/10MHz)		23												
Antenna Gain		0.2												
OUTPUT POWER FOR LTE BAND 48C (10MHz + 20MHz)														
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm/10MHz)	(W/10MHz)
10MHz+20MHz	55295	3555.5	55439	3569.9	QPSK	1	49	1	0	16.90	18.74	19.89	20.09	0.102
						50	0	100	0	15.01	14.83	17.91	18.11	0.065
	55896	3615.6	56040	3630.0	QPSK	1	49	1	0	16.83	18.67	19.82	20.02	0.100
						50	0	100	0	15.08	14.79	17.92	18.12	0.065
	56496	3675.6	56640	3690.0	QPSK	1	49	1	0	16.83	18.67	19.82	20.02	0.100
						50	0	100	0	15.14	14.92	18.01	18.21	0.066
10MHz+20MHz	55295	3555.5	55439	3569.9	16QAM	1	49	1	0	15.77	17.63	18.80	19.00	0.079
						50	0	100	0	14.11	13.83	16.96	17.16	0.052
	55896	3615.6	56040	3630.0	16QAM	1	49	1	0	16.40	17.97	19.13	19.33	0.086
						50	0	100	0	14.17	13.90	17.01	17.21	0.053
	56496	3675.6	56640	3690.0	16QAM	1	49	1	0	16.34	17.94	19.13	19.33	0.086
						50	0	100	0	14.16	13.93	17.03	17.23	0.053
10MHz+20MHz	55295	3555.5	55439	3569.9	64QAM	1	49	1	0	14.03	16.20	17.15	17.35	0.054
						50	0	100	0	13.92	13.79	16.84	17.04	0.051
	55896	3615.6	56040	3630.0	64QAM	1	49	1	0	14.03	16.04	17.00	17.20	0.052
						50	0	100	0	14.08	13.85	16.95	17.15	0.052
	56496	3675.6	56640	3690.0	64QAM	1	49	1	0	14.36	16.06	17.22	17.42	0.055
						50	0	100	0	13.98	13.82	16.89	17.09	0.051
10MHz+20MHz	55295	3555.5	55439	3569.9	256QAM	1	49	1	0	11.96	14.15	15.05	15.25	0.033
						50	0	100	0	12.09	11.89	14.98	15.18	0.033
	55896	3615.6	56040	3630.0	256QAM	1	49	1	0	12.06	14.00	15.06	15.26	0.034
						50	0	100	0	11.97	11.70	14.82	15.02	0.032
	56496	3675.6	56640	3690.0	256QAM	1	49	1	0	12.40	14.18	15.28	15.48	0.035
						50	0	100	0	12.06	11.76	14.90	15.10	0.032

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Part 27_ EIRP Limit (dBm/10MHz)	23
Antenna Gain	0.2

OUTPUT POWER FOR LTE BAND 48C (20MHz + 10MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm/10MHz)	(W/10MHz)
20MHz+10MHz	55340	3560.0	55484	3574.4	QPSK	1	99	1	0	18.96	16.91	19.93	20.13	0.103
						100	0	50	0	15.06	14.85	17.94	18.14	0.065
	55941	3620.1	56085	3634.5	QPSK	1	99	1	0	18.98	16.94	19.95	20.15	0.104
						100	0	50	0	15.03	14.75	17.87	18.07	0.064
	56541	3680.1	56685	3694.5	QPSK	1	99	1	0	18.45	16.40	19.42	19.62	0.092
						100	0	50	0	15.19	14.87	18.02	18.22	0.066
20MHz+10MHz	55340	3560.0	55484	3574.4	16QAM	1	99	1	0	17.97	16.28	19.02	19.22	0.084
						100	0	50	0	14.11	13.92	17.00	17.20	0.052
	55941	3620.1	56085	3634.5	16QAM	1	99	1	0	17.73	15.75	18.73	18.93	0.078
						100	0	50	0	14.06	13.84	16.93	17.13	0.052
	56541	3680.1	56685	3694.5	16QAM	1	99	1	0	17.75	15.59	18.70	18.90	0.078
						100	0	50	0	14.04	13.80	16.91	17.11	0.051
20MHz+10MHz	55340	3560.0	55484	3574.4	64QAM	1	99	1	0	16.06	14.02	17.02	17.22	0.053
						100	0	50	0	14.10	13.82	16.94	17.14	0.052
	55941	3620.1	56085	3634.5	64QAM	1	99	1	0	16.16	14.27	17.19	17.39	0.055
						100	0	50	0	13.98	13.59	16.78	16.98	0.050
	56541	3680.1	56685	3694.5	64QAM	1	99	1	0	16.11	14.08	16.98	17.18	0.052
						100	0	50	0	14.04	13.71	16.87	17.07	0.051
20MHz+10MHz	55340	3560.0	55484	3574.4	256QAM	1	99	1	0	14.21	12.34	15.19	15.39	0.035
						100	0	50	0	11.93	11.76	14.83	15.03	0.032
	55941	3620.1	56085	3634.5	256QAM	1	99	1	0	14.09	11.76	14.91	15.11	0.032
						100	0	50	0	11.97	11.68	14.81	15.01	0.032
	56541	3680.1	56685	3694.5	256QAM	1	99	1	0	14.16	11.89	14.99	15.19	0.033
						100	0	50	0	12.03	11.83	14.92	15.12	0.033

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Part 27_ EIRP Limit (dBm/10MHz)		23												
Antenna Gain		0.2												
OUTPUT POWER FOR LTE BAND 48C (15MHz + 20MHz)														
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm/10MHz)	(W/10MHz)
15MHz+20MHz	55318	3557.8	55489	3574.9	QPSK	1	74	1	0	16.46	16.35	19.42	19.62	0.092
						75	0	100	0	14.87	14.58	17.74	17.94	0.062
	55893	3615.3	56064	3632.4	QPSK	1	74	1	0	16.43	16.34	19.40	19.60	0.091
						75	0	100	0	15.02	14.79	17.92	18.12	0.065
	56469	3672.9	56640	3690.0	QPSK	1	74	1	0	16.47	16.36	19.43	19.63	0.092
						75	0	100	0	15.13	14.84	18.00	18.20	0.066
15MHz+20MHz	55318	3557.8	55489	3574.9	16QAM	1	74	1	0	15.64	16.03	18.85	19.05	0.080
						75	0	100	0	13.98	13.67	16.84	17.04	0.051
	55893	3615.3	56064	3632.4	16QAM	1	74	1	0	16.17	15.65	18.93	19.13	0.082
						75	0	100	0	14.14	13.78	16.98	17.18	0.052
	56469	3672.9	56640	3690.0	16QAM	1	74	1	0	16.01	15.68	18.86	19.06	0.081
						75	0	100	0	14.11	13.90	17.02	17.22	0.053
15MHz+20MHz	55318	3557.8	55489	3574.9	64QAM	1	74	1	0	14.04	13.97	17.01	17.21	0.053
						75	0	100	0	13.87	13.61	16.75	16.95	0.050
	55893	3615.3	56064	3632.4	64QAM	1	74	1	0	13.76	14.21	17.00	17.20	0.052
						75	0	100	0	14.07	13.73	16.91	17.11	0.051
	56469	3672.9	56640	3690.0	64QAM	1	74	1	0	13.44	14.48	17.00	17.20	0.052
						75	0	100	0	14.08	13.80	16.95	17.15	0.052
15MHz+20MHz	55318	3557.8	55489	3574.9	256QAM	1	74	1	0	11.73	11.97	14.86	15.06	0.032
						75	0	100	0	11.90	11.69	14.81	15.01	0.032
	55893	3615.3	56064	3632.4	256QAM	1	74	1	0	11.99	12.08	15.05	15.25	0.033
						75	0	100	0	11.96	11.60	14.80	15.00	0.032
	56469	3672.9	56640	3690.0	256QAM	1	74	1	0	12.07	11.80	14.94	15.14	0.033
						75	0	100	0	12.00	11.67	14.85	15.05	0.032

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Part 27_ EIRP Limit (dBm/10MHz)		23												
Antenna Gain		0.2												
OUTPUT POWER FOR LTE BAND 48C (20MHz + 15MHz)														
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm/10MHz)	(W/10MHz)
20MHz+15MHz	55340	3560.0	55511	3577.1	QPSK	1	99	1	0	16.52	16.48	19.51	19.71	0.094
						100	0	75	0	14.96	14.71	17.85	18.05	0.064
	55916	3617.6	56087	3634.7	QPSK	1	99	1	0	16.29	16.27	19.29	19.49	0.089
						100	0	75	0	15.04	14.75	17.91	18.11	0.065
	56491	3675.1	56662	3692.2	QPSK	1	99	1	0	16.29	16.36	19.33	19.53	0.090
						100	0	75	0	15.00	14.77	17.90	18.10	0.065
20MHz+15MHz	55340	3560.0	55511	3577.1	16QAM	1	99	1	0	15.97	15.53	18.77	18.97	0.079
						100	0	75	0	14.10	13.91	17.02	17.22	0.053
	55916	3617.6	56087	3634.7	16QAM	1	99	1	0	15.87	15.92	18.91	19.11	0.081
						100	0	75	0	14.08	13.79	16.95	17.15	0.052
	56491	3675.1	56662	3692.2	16QAM	1	99	1	0	15.66	16.05	18.87	19.07	0.081
						100	0	75	0	14.05	13.84	16.96	17.16	0.052
20MHz+15MHz	55340	3560.0	55511	3577.1	64QAM	1	99	1	0	14.01	14.05	17.04	17.24	0.053
						100	0	75	0	14.08	13.87	16.99	17.19	0.052
	55916	3617.6	56087	3634.7	64QAM	1	99	1	0	14.45	14.11	17.29	17.49	0.056
						100	0	75	0	13.96	13.68	16.83	17.03	0.050
	56491	3675.1	56662	3692.2	64QAM	1	99	1	0	13.98	14.19	17.10	17.30	0.054
						100	0	75	0	13.99	13.75	16.88	17.08	0.051
20MHz+15MHz	55340	3560.0	55511	3577.1	256QAM	1	99	1	0	11.87	12.20	15.05	15.25	0.033
						100	0	75	0	12.04	11.83	14.95	15.15	0.033
	55916	3617.6	56087	3634.7	256QAM	1	99	1	0	11.92	11.94	14.94	15.14	0.033
						100	0	75	0	11.99	11.74	14.88	15.08	0.032
	56491	3675.1	56662	3692.2	256QAM	1	99	1	0	11.87	12.08	14.98	15.18	0.033
						100	0	75	0	11.98	11.77	14.87	15.07	0.032

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Part 27_ EIRP Limit (dBm/10MHz)		23												
Antenna Gain		0.2												
OUTPUT POWER FOR LTE BAND 48C (20MHz + 20MHz)														
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm/10MHz)	(W/10MHz)
20MHz+20MHz	55340	3560.0	55538	3579.8	QPSK	1	99	1	0	16.48	16.44	19.47	19.67	0.093
						100	0	100	0	15.05	14.84	17.96	18.16	0.065
	55891	3615.1	56089	3634.9	QPSK	1	99	1	0	16.39	16.29	19.35	19.55	0.090
						100	0	100	0	15.04	14.72	17.90	18.10	0.065
	56442	3670.2	56640	3690.0	QPSK	1	99	1	0	16.27	16.26	19.28	19.48	0.089
						100	0	100	0	15.11	14.82	17.97	18.17	0.066
20MHz+20MHz	55340	3560.0	55538	3579.8	16QAM	1	99	1	0	15.88	15.70	18.80	19.00	0.079
						100	0	100	0	14.10	13.90	17.01	17.21	0.053
	55891	3615.1	56089	3634.9	16QAM	1	99	1	0	15.92	16.11	19.03	19.23	0.084
						100	0	100	0	14.16	13.83	17.01	17.21	0.053
	56442	3670.2	56640	3690.0	16QAM	1	99	1	0	16.14	15.69	18.93	19.13	0.082
						100	0	100	0	14.17	13.86	17.03	17.23	0.053
20MHz+20MHz	55340	3560.0	55538	3579.8	64QAM	1	99	1	0	13.93	13.91	16.93	17.13	0.052
						100	0	100	0	14.03	13.75	16.91	17.11	0.051
	55891	3615.1	56089	3634.9	64QAM	1	99	1	0	13.76	14.22	17.00	17.20	0.052
						100	0	100	0	13.99	13.70	16.86	17.06	0.051
	56442	3670.2	56640	3690.0	64QAM	1	99	1	0	14.07	14.12	17.11	17.31	0.054
						100	0	100	0	14.06	13.78	16.93	17.13	0.052
20MHz+20MHz	55340	3560.0	55538	3579.8	256QAM	1	99	1	0	12.11	12.36	15.25	15.45	0.035
						100	0	100	0	12.10	11.82	14.97	15.17	0.033
	55891	3615.1	56089	3634.9	256QAM	1	99	1	0	12.20	12.04	15.13	15.33	0.034
						100	0	100	0	12.03	11.83	14.94	15.14	0.033
	56442	3670.2	56640	3690.0	256QAM	1	99	1	0	12.04	11.76	14.91	15.11	0.032
						100	0	100	0	11.95	11.69	14.83	15.03	0.032

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Part 27_ EIRP Limit (dBm)		23												
Antenna Gain		0.2												
OUTPUT POWER FOR LTE BAND 48C (5MHz + 20MHz)														
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
5MHz+20MHz	55273	3553.3	55390	3565.0	QPSK	1	24	1	0	16.53	19.61	19.89	20.09	0.102
						25	0	100	0	14.41	15.04	17.63	17.83	0.061
	55898	3615.8	56015	3627.5	QPSK	1	24	1	0	16.50	19.67	19.86	20.06	0.101
						25	0	100	0	14.68	14.89	17.87	18.07	0.064
	56523	3678.3	56640	3690.0	QPSK	1	24	1	0	16.65	19.84	19.99	20.19	0.104
						25	0	100	0	14.75	15.15	17.98	18.18	0.066
5MHz+20MHz	55273	3553.3	55390	3565.0	16QAM	1	24	1	0	15.26	18.30	18.50	18.70	0.074
						25	0	100	0	13.50	14.19	16.94	17.14	0.052
	55898	3615.8	56015	3627.5	16QAM	1	24	1	0	15.43	18.60	18.91	19.11	0.081
						25	0	100	0	14.03	14.25	16.98	17.18	0.052
	56523	3678.3	56640	3690.0	16QAM	1	24	1	0	15.41	18.41	18.74	18.94	0.078
						25	0	100	0	13.68	13.91	16.99	17.19	0.052
5MHz+20MHz	55273	3553.3	55390	3565.0	64QAM	1	24	1	0	13.62	16.95	17.03	17.23	0.053
						25	0	100	0	13.51	14.12	16.79	16.99	0.050
	55898	3615.8	56015	3627.5	64QAM	1	24	1	0	13.99	16.98	17.41	17.61	0.058
						25	0	100	0	13.64	14.21	16.94	17.14	0.052
	56523	3678.3	56640	3690.0	64QAM	1	24	1	0	13.73	17.00	17.21	17.41	0.055
						25	0	100	0	13.78	14.17	16.89	17.09	0.051
5MHz+20MHz	55273	3553.3	55390	3565.0	256QAM	1	24	1	0	11.54	14.63	15.01	15.21	0.033
						25	0	100	0	11.52	12.09	14.91	15.11	0.032
	55898	3615.8	56015	3627.5	256QAM	1	24	1	0	12.09	14.56	15.03	15.23	0.033
						25	0	100	0	11.82	12.26	14.84	15.04	0.032
	56523	3678.3	56640	3690.0	256QAM	1	24	1	0	11.81	14.38	14.86	15.06	0.032
						25	0	100	0	11.74	12.07	14.81	15.01	0.032

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Part 27_ EIRP Limit (dBm)	23
Antenna Gain	0.2

OUTPUT POWER FOR LTE BAND 48C (20MHz + 5MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
20MHz+5MHz	55340	3560.0	55457	3571.7	QPSK	1	99	1	0	19.39	16.27	19.79	19.99	0.100
						100	0	25	0	15.05	14.73	17.94	18.14	0.065
	55965	3622.5	56082	3634.2	QPSK	1	99	1	0	19.16	16.17	19.52	19.72	0.094
						100	0	25	0	15.07	14.69	17.88	18.08	0.064
	56590	3685.0	56707	3696.7	QPSK	1	99	1	0	19.27	16.33	19.65	19.85	0.097
						100	0	25	0	15.07	14.43	17.94	18.14	0.065
20MHz+5MHz	55340	3560.0	55457	3571.7	16QAM	1	99	1	0	18.43	15.54	18.81	19.01	0.080
						100	0	25	0	14.12	13.48	16.98	17.18	0.052
	55965	3622.5	56082	3634.2	16QAM	1	99	1	0	18.56	15.44	18.94	19.14	0.082
						100	0	25	0	14.25	13.55	16.91	17.11	0.051
	56590	3685.0	56707	3696.7	16QAM	1	99	1	0	18.61	15.88	18.97	19.17	0.083
						100	0	25	0	14.41	13.71	16.95	17.15	0.052
20MHz+5MHz	55340	3560.0	55457	3571.7	64QAM	1	99	1	0	16.92	13.24	16.98	17.18	0.052
						100	0	25	0	14.19	13.70	16.92	17.12	0.052
	55965	3622.5	56082	3634.2	64QAM	1	99	1	0	16.80	13.72	17.11	17.31	0.054
						100	0	25	0	13.97	13.33	17.08	17.28	0.053
	56590	3685.0	56707	3696.7	64QAM	1	99	1	0	16.79	13.62	17.01	17.21	0.053
						100	0	25	0	14.27	13.26	16.91	17.11	0.051
20MHz+5MHz	55340	3560.0	55457	3571.7	256QAM	1	99	1	0	14.76	11.93	14.97	15.17	0.033
						100	0	25	0	12.10	11.30	14.91	15.11	0.032
	55965	3622.5	56082	3634.2	256QAM	1	99	1	0	14.41	11.59	14.96	15.16	0.033
						100	0	25	0	11.93	11.39	14.68	14.88	0.031
	56590	3685.0	56707	3696.7	256QAM	1	99	1	0	14.52	11.64	14.93	15.13	0.033
						100	0	25	0	12.19	11.74	14.91	15.11	0.032

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Part 27_ EIRP Limit (dBm)	23
Antenna Gain	0.2

OUTPUT POWER FOR LTE BAND 48C (10MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
10MHz+20MHz	55295	3555.5	55439	3569.9	QPSK	1	49	1	0	16.60	18.24	19.84	20.04	0.101
						50	0	100	0	14.71	14.25	17.50	17.70	0.059
	55896	3615.6	56040	3630.0	QPSK	1	49	1	0	16.59	18.18	19.76	19.96	0.099
						50	0	100	0	14.48	14.28	17.39	17.59	0.057
	56496	3675.6	56640	3690.0	QPSK	1	49	1	0	16.53	18.08	19.76	19.96	0.099
						50	0	100	0	14.87	14.53	17.71	17.91	0.062
10MHz+20MHz	55295	3555.5	55439	3569.9	16QAM	1	49	1	0	15.49	17.03	18.74	18.94	0.078
						50	0	100	0	13.93	13.57	16.76	16.96	0.050
	55896	3615.6	56040	3630.0	16QAM	1	49	1	0	16.11	17.70	19.10	19.30	0.085
						50	0	100	0	13.81	13.37	16.61	16.81	0.048
	56496	3675.6	56640	3690.0	16QAM	1	49	1	0	16.11	17.70	19.10	19.30	0.085
						50	0	100	0	13.63	13.66	16.66	16.86	0.048
10MHz+20MHz	55295	3555.5	55439	3569.9	64QAM	1	49	1	0	13.74	15.80	17.13	17.33	0.054
						50	0	100	0	13.78	13.57	16.82	17.02	0.050
	55896	3615.6	56040	3630.0	64QAM	1	49	1	0	13.54	15.63	16.94	17.14	0.052
						50	0	100	0	13.57	13.52	16.56	16.76	0.047
	56496	3675.6	56640	3690.0	64QAM	1	49	1	0	13.82	15.94	17.21	17.41	0.055
						50	0	100	0	13.88	13.51	16.71	16.91	0.049
10MHz+20MHz	55295	3555.5	55439	3569.9	256QAM	1	49	1	0	11.51	13.58	15.01	15.21	0.033
						50	0	100	0	11.61	11.43	14.53	14.73	0.030
	55896	3615.6	56040	3630.0	256QAM	1	49	1	0	11.73	13.64	15.02	15.22	0.033
						50	0	100	0	11.52	11.12	14.33	14.53	0.028
	56496	3675.6	56640	3690.0	256QAM	1	49	1	0	12.09	13.81	15.22	15.42	0.035
						50	0	100	0	11.74	11.34	14.55	14.75	0.030

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Part 27_ EIRP Limit (dBm)	23
Antenna Gain	0.2

OUTPUT POWER FOR LTE BAND 48C (20MHz + 10MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
20MHz+10MHz	55340	3560.0	55484	3574.4	QPSK	1	99	1	0	18.38	16.54	19.89	20.09	0.102
						100	0	50	0	14.90	14.35	17.64	17.84	0.061
	55941	3620.1	56085	3634.5	QPSK	1	99	1	0	18.43	16.57	19.93	20.13	0.103
						100	0	50	0	14.71	14.58	17.66	17.86	0.061
	56541	3680.1	56685	3694.5	QPSK	1	99	1	0	18.01	15.84	19.38	19.58	0.091
						100	0	50	0	14.69	14.60	17.66	17.86	0.061
20MHz+10MHz	55340	3560.0	55484	3574.4	16QAM	1	99	1	0	17.82	15.69	19.01	19.21	0.083
						100	0	50	0	13.88	13.78	16.84	17.04	0.051
	55941	3620.1	56085	3634.5	16QAM	1	99	1	0	17.47	15.15	18.94	19.14	0.082
						100	0	50	0	13.50	13.48	16.50	16.70	0.047
	56541	3680.1	56685	3694.5	16QAM	1	99	1	0	17.29	15.04	18.64	18.84	0.077
						100	0	50	0	13.94	13.52	16.75	16.95	0.049
20MHz+10MHz	55340	3560.0	55484	3574.4	64QAM	1	99	1	0	15.68	13.50	16.98	17.18	0.052
						100	0	50	0	13.54	13.62	16.59	16.79	0.048
	55941	3620.1	56085	3634.5	64QAM	1	99	1	0	15.81	13.71	17.18	17.38	0.055
						100	0	50	0	13.51	13.40	16.47	16.67	0.046
	56541	3680.1	56685	3694.5	64QAM	1	99	1	0	15.73	13.62	17.16	17.36	0.054
						100	0	50	0	13.74	13.18	16.48	16.68	0.047
20MHz+10MHz	55340	3560.0	55484	3574.4	256QAM	1	99	1	0	13.67	11.93	15.17	15.37	0.034
						100	0	50	0	11.52	11.23	14.39	14.59	0.029
	55941	3620.1	56085	3634.5	256QAM	1	99	1	0	13.54	11.51	14.89	15.09	0.032
						100	0	50	0	11.59	11.12	14.73	14.93	0.031
	56541	3680.1	56685	3694.5	256QAM	1	99	1	0	13.71	11.68	14.89	15.09	0.032
						100	0	50	0	11.93	11.53	14.89	15.09	0.032

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Part 27_ EIRP Limit (dBm)	23
Antenna Gain	0.2

OUTPUT POWER FOR LTE BAND 48C (15MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+20MHz	55318	3557.8	55489	3574.9	QPSK	1	74	1	0	16.04	15.87	18.97	19.17	0.083
						75	0	100	0	14.60	14.47	17.55	17.75	0.060
	55893	3615.3	56064	3632.4	QPSK	1	74	1	0	15.46	16.15	18.83	19.03	0.080
						75	0	100	0	14.57	14.34	17.47	17.67	0.058
	56469	3672.9	56640	3690.0	QPSK	1	74	1	0	15.98	15.95	18.98	19.18	0.083
						75	0	100	0	14.81	14.53	17.68	17.88	0.061
15MHz+20MHz	55318	3557.8	55489	3574.9	16QAM	1	74	1	0	15.13	15.49	18.32	18.52	0.071
						75	0	100	0	13.39	13.44	16.43	16.63	0.046
	55893	3615.3	56064	3632.4	16QAM	1	74	1	0	15.91	15.52	18.73	18.93	0.078
						75	0	100	0	13.85	13.57	16.72	16.92	0.049
	56469	3672.9	56640	3690.0	16QAM	1	74	1	0	15.77	15.52	18.66	18.86	0.077
						75	0	100	0	13.85	13.46	16.67	16.87	0.049
15MHz+20MHz	55318	3557.8	55489	3574.9	64QAM	1	74	1	0	13.91	13.63	16.78	16.98	0.050
						75	0	100	0	13.40	13.19	16.31	16.51	0.045
	55893	3615.3	56064	3632.4	64QAM	1	74	1	0	13.19	13.71	16.47	16.67	0.046
						75	0	100	0	13.97	13.51	16.76	16.96	0.050
	56469	3672.9	56640	3690.0	64QAM	1	74	1	0	13.34	13.99	16.69	16.89	0.049
						75	0	100	0	13.85	13.28	16.58	16.78	0.048
15MHz+20MHz	55318	3557.8	55489	3574.9	256QAM	1	74	1	0	11.16	11.57	14.38	14.58	0.029
						75	0	100	0	11.78	11.42	14.61	14.81	0.030
	55893	3615.3	56064	3632.4	256QAM	1	74	1	0	11.85	11.67	14.77	14.97	0.031
						75	0	100	0	11.75	11.15	14.47	14.67	0.029
	56469	3672.9	56640	3690.0	256QAM	1	74	1	0	11.90	11.33	14.63	14.83	0.030
						75	0	100	0	11.45	11.20	14.34	14.54	0.028

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Part 27_ EIRP Limit (dBm)	23
Antenna Gain	0.2

OUTPUT POWER FOR LTE BAND 48C (20MHz + 15MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
20MHz+15MHz	55340	3560.0	55511	3577.1	QPSK	1	99	1	0	16.40	15.89	19.16	19.36	0.086
						100	0	75	0	14.44	14.39	17.43	17.63	0.058
	55916	3617.6	56087	3634.7	QPSK	1	99	1	0	15.90	15.72	18.82	19.02	0.080
						100	0	75	0	14.64	14.46	17.56	17.76	0.060
	56491	3675.1	56662	3692.2	QPSK	1	99	1	0	15.96	16.17	19.08	19.28	0.085
						100	0	75	0	14.68	14.45	17.58	17.78	0.060
20MHz+15MHz	55340	3560.0	55511	3577.1	16QAM	1	99	1	0	15.52	15.29	18.42	18.62	0.073
						100	0	75	0	13.82	13.48	16.66	16.86	0.049
	55916	3617.6	56087	3634.7	16QAM	1	99	1	0	15.54	15.73	18.65	18.85	0.077
						100	0	75	0	13.50	13.54	16.53	16.73	0.047
	56491	3675.1	56662	3692.2	16QAM	1	99	1	0	15.54	15.67	18.62	18.82	0.076
						100	0	75	0	13.56	13.35	16.47	16.67	0.046
20MHz+15MHz	55340	3560.0	55511	3577.1	64QAM	1	99	1	0	13.77	13.95	16.87	17.07	0.051
						100	0	75	0	13.58	13.53	16.57	16.77	0.047
	55916	3617.6	56087	3634.7	64QAM	1	99	1	0	14.32	13.64	17.00	17.20	0.053
						100	0	75	0	13.46	13.51	16.50	16.70	0.047
	56491	3675.1	56662	3692.2	64QAM	1	99	1	0	13.77	13.63	16.71	16.91	0.049
						100	0	75	0	13.48	13.16	16.33	16.53	0.045
20MHz+15MHz	55340	3560.0	55511	3577.1	256QAM	1	99	1	0	11.33	11.98	14.68	14.88	0.031
						100	0	75	0	11.54	11.36	14.46	14.66	0.029
	55916	3617.6	56087	3634.7	256QAM	1	99	1	0	11.63	11.41	14.53	14.73	0.030
						100	0	75	0	11.64	11.28	14.47	14.67	0.029
	56491	3675.1	56662	3692.2	256QAM	1	99	1	0	11.36	11.67	14.53	14.73	0.030
						100	0	75	0	11.38	11.53	14.47	14.67	0.029

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Part 27_ EIRP Limit (dBm)	23
Antenna Gain	0.2

OUTPUT POWER FOR LTE BAND 48C (20MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
20MHz+20MHz	55340	3560.0	55538	3579.8	QPSK	1	99	1	0	16.06	16.03	19.06	19.26	0.084
						100	0	100	0	14.74	14.68	17.72	17.92	0.062
	55891	3615.1	56089	3634.9	QPSK	1	99	1	0	15.95	15.82	18.90	19.10	0.081
						100	0	100	0	14.92	14.16	17.57	17.77	0.060
	56442	3670.2	56640	3690.0	QPSK	1	99	1	0	16.07	15.68	18.89	19.09	0.081
						100	0	100	0	14.88	14.33	17.62	17.82	0.061
20MHz+20MHz	55340	3560.0	55538	3579.8	16QAM	1	99	1	0	15.65	15.56	18.62	18.82	0.076
						100	0	100	0	13.88	13.30	16.61	16.81	0.048
	55891	3615.1	56089	3634.9	16QAM	1	99	1	0	15.80	15.78	18.80	19.00	0.079
						100	0	100	0	13.60	13.69	16.66	16.86	0.048
	56442	3670.2	56640	3690.0	16QAM	1	99	1	0	15.87	15.18	18.55	18.75	0.075
						100	0	100	0	13.72	13.60	16.67	16.87	0.049
20MHz+20MHz	55340	3560.0	55538	3579.8	64QAM	1	99	1	0	13.57	13.44	16.52	16.72	0.047
						100	0	100	0	13.73	13.41	16.58	16.78	0.048
	55891	3615.1	56089	3634.9	64QAM	1	99	1	0	13.50	13.94	16.74	16.94	0.049
						100	0	100	0	13.81	13.18	16.52	16.72	0.047
	56442	3670.2	56640	3690.0	64QAM	1	99	1	0	13.65	13.78	16.86	17.06	0.051
						100	0	100	0	13.72	13.34	16.54	16.74	0.047
20MHz+20MHz	55340	3560.0	55538	3579.8	256QAM	1	99	1	0	11.78	12.08	14.94	15.14	0.033
						100	0	100	0	11.91	11.36	14.65	14.85	0.031
	55891	3615.1	56089	3634.9	256QAM	1	99	1	0	11.80	11.77	14.80	15.00	0.032
						100	0	100	0	11.72	11.62	14.68	14.88	0.031
	56442	3670.2	56640	3690.0	256QAM	1	99	1	0	11.93	11.53	14.74	14.94	0.031
						100	0	100	0	11.49	11.26	14.39	14.59	0.029

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Mode: 5GNR

5G NR Band n48: 3550 to 3700 MHz				Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)		-0.1		Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)			
EIRP Limit (dBm)		23dBm/10MHz		Low	Mid	High	Low	Mid	High	
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637000	641666	646332	637000	641666	646332
					3555	3624.99	3694.98	3555	3624.99	3694.98
10	30	DFT-s PI/2 BPSK	1	1	22.54	<b>23.02</b>	22.82	22.44	<b>22.92</b>	22.72
			1	22	22.99	22.63	22.81	22.89	22.53	22.71
			12	6	22.53	22.56	22.94	22.43	22.46	22.84
			24	0	22.79	22.89	22.93	22.69	22.79	22.83
		DFT-s QPSK	1	1	22.67	22.59	22.61	22.57	22.49	22.51
			1	22	22.89	22.71	22.70	22.79	22.61	22.60
			12	6	22.72	22.61	22.96	22.62	22.51	<b>22.86</b>
		DFT-s 16QAM	1	1	21.31	21.12	21.20	<b>21.21</b>	21.02	21.10
		DFT-s 64QAM	1	1	20.97	20.08	20.67	20.87	19.98	20.57
		DFT-s 256QAM	1	1	18.21	18.47	18.05	18.11	18.37	17.95
		CP QPSK	1	1	21.40	21.32	21.53	21.30	21.22	<b>21.43</b>
		CP 16QAM	1	1	20.68	20.38	20.40	<b>20.58</b>	20.28	20.30
		CP 64QAM	1	1	19.55	19.46	18.66	19.45	19.36	18.56
CP 256QAM	1	1	16.50	16.43	16.03	16.40	16.33	15.93		

5G NR Band n48: 3550 to 3700 MHz				Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)		-0.1		Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)			
EIRP Limit (dBm)		23dBm/10MHz		Low	Mid	High	Low	Mid	High	
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637168	641666	646166	637168	641666	646166
					3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	30	DFT-s PI/2 BPSK	1	1	22.74	<b>23.03</b>	22.96	22.64	<b>22.93</b>	22.86
			1	36	22.50	22.97	22.54	22.40	22.87	22.44
			18	9	22.68	22.53	22.65	22.58	22.43	22.55
			36	0	22.57	22.62	23.00	22.47	22.52	22.90
		DFT-s QPSK	1	1	22.61	22.66	22.54	22.51	22.56	22.44
			1	36	22.85	22.63	22.79	22.75	22.53	22.69
			18	9	22.75	22.73	22.90	22.65	22.63	<b>22.80</b>
		36	0	21.47	21.02	21.78	21.37	20.92	21.68	
		DFT-s 16QAM	1	1	21.13	21.07	21.23	21.03	20.97	<b>21.13</b>
		DFT-s 64QAM	1	1	20.30	20.68	20.39	20.20	20.58	20.29
		DFT-s 256QAM	1	1	18.39	18.19	18.01	18.29	18.09	17.91
		CP QPSK	1	1	21.06	21.11	21.04	20.96	<b>21.01</b>	20.94
		CP 16QAM	1	1	20.22	20.90	20.67	20.12	<b>20.80</b>	20.57
CP 64QAM	1	1	18.49	18.51	19.66	18.39	18.41	19.56		
CP 256QAM	1	1	16.29	17.00	16.38	16.19	16.90	16.28		

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5G NR Band n48: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)		
Antenna Gain(dBi)			-0.1		Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)		
EIRP Limit (dBm)			23dBm/10MHz		Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637334	641666	646000	637334	641666	646000
					3560.01	3624.99	3690	3560.01	3624.99	3690
20	30	DFT-s PI/2 BPSK	1	1	22.93	22.85	22.90	22.83	22.75	22.80
			1	49	22.57	22.56	22.69	22.47	22.46	22.59
			25	12	22.88	22.92	22.96	22.78	22.82	<b>22.86</b>
			50	0	22.91	22.59	22.72	22.81	22.49	22.62
		DFT-s QPSK	1	1	22.89	22.86	22.57	22.79	22.76	22.47
			1	49	22.69	22.71	22.77	22.59	22.61	22.67
			25	12	22.96	22.57	<b>23.00</b>	22.86	22.47	<b>22.90</b>
		DFT-s 16QAM	25	12	21.59	21.53	21.63	21.49	21.43	<b>21.53</b>
		DFT-s 64QAM	25	12	20.49	20.61	20.18	20.39	20.51	20.08
		DFT-s 256QAM	25	12	18.07	18.37	18.29	17.97	18.27	18.19
		CP QPSK	25	12	21.17	21.25	21.27	21.07	21.15	<b>21.17</b>
		CP 16QAM	25	12	20.57	20.08	20.51	<b>20.47</b>	19.98	20.41
		CP 64QAM	25	12	19.08	18.67	19.34	18.98	18.57	19.24
CP 256QAM	25	12	16.12	16.37	16.40	16.02	16.27	16.30		

5G NR Band n48: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)		
Antenna Gain(dBi)			-0.1		Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)		
EIRP Limit (dBm)			23dBm/10MHz		Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637668	641666	645666	637668	641666	645666
					3565.02	3624.99	3684.99	3565.02	3624.99	3684.99
30	30	DFT-s PI/2 BPSK	1	1	22.95	22.55	22.72	22.85	22.45	22.62
			1	76	22.51	22.84	22.98	22.41	22.74	22.88
			36	18	22.58	22.97	22.57	22.48	22.87	22.47
			75	0	22.51	22.99	22.66	22.41	<b>22.89</b>	22.56
		DFT-s QPSK	1	1	<b>23.00</b>	22.73	22.94	<b>22.90</b>	22.63	22.84
			1	76	22.63	22.50	22.90	22.53	22.40	22.80
			36	18	22.62	22.88	22.69	22.52	22.78	22.59
		75	0	21.88	21.20	21.70	21.78	21.10	21.60	
		DFT-s 16QAM	1	1	21.68	21.65	21.13	<b>21.58</b>	21.55	21.03
		DFT-s 64QAM	1	1	20.15	20.32	20.18	20.05	20.22	20.08
		DFT-s 256QAM	1	1	18.44	18.50	18.05	18.34	18.40	17.95
		CP QPSK	1	1	21.59	21.88	21.58	21.49	<b>21.78</b>	21.48
		CP 16QAM	1	1	20.56	20.70	20.98	20.46	20.60	<b>20.88</b>
CP 64QAM	1	1	19.06	18.19	19.04	18.96	18.09	18.94		
CP 256QAM	1	1	16.91	16.33	16.43	16.81	16.23	16.33		

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5G NR Band n48: 3550 to 3700 MHz				Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)		-0.1		Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)			
EIRP Limit (dBm)		23dBm/10MHz		Low	Mid	High	Low	Mid	High	
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	638000	641666	645332	638000	641666	645332
					3570	3624.99	3679.98	3570	3624.99	3679.98
40	30	DFT-s PI/2 BPSK	1	1	22.65	<b>23.05</b>	22.67	22.55	<b>22.95</b>	22.57
			1	104	22.98	22.94	22.31	22.88	22.84	22.21
			50	25	22.72	22.98	22.46	22.62	22.88	22.36
			100	0	22.34	22.68	22.08	22.24	22.58	21.98
		DFT-s QPSK	1	1	22.62	22.20	22.75	22.52	22.10	22.65
			1	104	23.04	23.01	22.39	<b>22.94</b>	22.91	22.29
			50	25	22.80	22.79	22.57	22.70	22.69	22.47
			100	0	21.81	22.21	21.54	21.71	22.11	21.44
		DFT-s 16QAM	1	1	21.63	21.96	21.47	21.53	<b>21.86</b>	21.37
		DFT-s 64QAM	1	1	20.20	20.73	20.06	20.10	20.63	19.96
		DFT-s 256QAM	1	1	18.11	18.48	18.02	18.01	18.38	17.92
		CP QPSK	1	1	21.13	21.80	21.27	21.03	<b>21.70</b>	21.17
		CP 16QAM	1	1	20.76	21.09	20.69	20.66	<b>20.99</b>	20.59
		CP 64QAM	1	1	18.83	19.79	19.17	18.73	19.69	19.07
CP 256QAM	1	1	16.22	16.80	16.07	16.12	16.70	15.97		

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5G NR Band n48: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)		
Antenna Gain(dBi)		-0.1			Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)		
EIRP Limit (dBm)		23dBm			Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637000	641666	646332	637000	641666	646332
					3555	3624.99	3694.98	3555	3624.99	3694.98
10	30	DFT-s PI/2 BPSK	1	1	22.20	<b>22.89</b>	22.55	22.10	<b>22.79</b>	22.45
			1	22	22.80	22.50	22.69	22.70	22.40	22.59
			12	6	22.15	22.20	22.62	22.05	22.10	22.52
			24	0	22.60	22.57	22.63	22.50	22.47	22.53
		DFT-s QPSK	1	1	22.26	22.16	22.24	22.16	22.06	22.14
			1	22	22.74	22.32	22.24	<b>22.64</b>	22.22	22.14
			12	6	22.31	22.27	22.48	22.21	22.17	22.38
		24	0	20.77	21.71	20.93	20.67	21.61	20.83	
		DFT-s 16QAM	1	1	21.01	20.69	20.78	<b>20.91</b>	20.59	20.68
		DFT-s 64QAM	1	1	20.57	19.76	20.24	20.47	19.66	20.14
		DFT-s 256QAM	1	1	18.03	18.06	17.65	17.93	17.96	17.55
		CP QPSK	1	1	21.00	20.88	21.13	20.90	20.78	<b>21.03</b>
		CP 16QAM	1	1	20.58	19.98	20.23	<b>20.48</b>	19.88	20.13
CP 64QAM	1	1	19.25	19.01	18.55	19.15	18.91	18.45		
CP 256QAM	1	1	16.05	15.97	15.87	15.95	15.87	15.77		

5G NR Band n48: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)		
Antenna Gain(dBi)		-0.1			Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)		
EIRP Limit (dBm)		23dBm			Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637168	641666	646166	637168	641666	646166
					3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	30	DFT-s PI/2 BPSK	1	1	22.63	<b>22.80</b>	22.79	22.53	<b>22.70</b>	22.69
			1	36	22.19	22.63	22.40	22.09	22.53	22.30
			18	9	22.29	22.20	22.48	22.19	22.10	22.38
			36	0	22.14	22.13	22.62	22.04	22.03	22.52
		DFT-s QPSK	1	1	22.25	22.32	22.43	22.15	22.22	22.33
			1	36	22.66	22.33	22.66	22.56	22.23	22.56
			18	9	22.54	22.33	22.68	22.44	22.23	<b>22.58</b>
		36	0	21.07	20.65	21.36	20.97	20.55	21.26	
		DFT-s 16QAM	1	1	20.82	20.87	20.75	20.72	<b>20.77</b>	20.65
		DFT-s 64QAM	1	1	20.07	20.55	20.24	19.97	20.45	20.14
		DFT-s 256QAM	1	1	18.06	17.82	17.87	17.96	17.72	17.77
		CP QPSK	1	1	20.93	20.79	20.56	<b>20.83</b>	20.69	20.46
		CP 16QAM	1	1	19.98	20.79	20.43	19.88	<b>20.69</b>	20.33
CP 64QAM	1	1	17.99	18.17	19.43	17.89	18.07	19.33		
CP 256QAM	1	1	15.86	16.60	16.03	15.76	16.50	15.93		

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5G NR Band n48: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)		
Antenna Gain(dBi)		-0.1			Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)		
EIRP Limit (dBm)		23dBm			Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637334	641666	646000	637334	641666	646000
					3560.01	3624.99	3690	3560.01	3624.99	3690
20	30	DFT-s PI/2 BPSK	1	1	22.46	22.44	22.45	22.36	22.34	22.35
			1	49	22.33	22.15	22.53	22.23	22.05	22.43
			25	12	22.65	22.61	22.68	22.55	22.51	<b>22.58</b>
			50	0	22.50	22.41	22.25	22.40	22.31	22.15
		DFT-s QPSK	1	1	22.47	22.73	22.18	22.37	22.63	22.08
			1	49	22.53	22.49	22.50	22.43	22.39	22.40
			25	12	22.47	22.12	<b>22.79</b>	22.37	22.02	<b>22.69</b>
		DFT-s 16QAM	50	0	20.86	20.90	21.15	20.76	20.80	21.05
			25	12	21.25	21.11	21.29	21.15	21.01	<b>21.19</b>
			25	12	20.05	20.47	19.78	19.95	20.37	19.68
			25	12	17.69	18.01	17.96	17.59	17.91	17.86
			25	12	21.00	21.14	21.16	20.90	21.04	<b>21.06</b>
			25	12	20.20	19.64	20.31	20.10	19.54	<b>20.21</b>
CP 64QAM	25	12	18.70	18.41	19.18	18.60	18.31	19.08		
	25	12	16.01	16.27	15.97	15.91	16.17	15.87		

5G NR Band n48: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)		
Antenna Gain(dBi)		-0.1			Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)		
EIRP Limit (dBm)		23dBm			Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637668	641666	645666	637668	641666	645666
					3565.02	3624.99	3684.99	3565.02	3624.99	3684.99
30	30	DFT-s PI/2 BPSK	1	1	22.83	22.08	22.38	<b>22.73</b>	21.98	22.28
			1	76	22.06	22.35	22.49	21.96	22.25	22.39
			36	18	22.10	22.74	22.10	22.00	22.64	22.00
			75	0	22.36	22.69	22.26	22.26	22.59	22.16
		DFT-s QPSK	1	1	<b>22.85</b>	22.58	22.70	<b>22.75</b>	22.48	22.60
			1	76	22.50	22.11	22.66	22.40	22.01	22.56
			36	18	22.50	22.50	22.47	22.40	22.40	22.37
		DFT-s 16QAM	75	0	21.71	20.92	21.20	21.61	20.82	21.10
			1	1	21.53	21.27	20.74	<b>21.43</b>	21.17	20.64
			1	1	19.88	19.96	19.84	19.78	19.86	19.74
			1	1	18.03	18.22	17.89	17.93	18.12	17.79
			1	1	21.28	21.44	21.09	21.18	<b>21.34</b>	20.99
			1	1	20.12	20.55	20.77	20.02	20.45	<b>20.67</b>
CP 256QAM	1	1	18.75	17.80	18.68	18.65	17.70	18.58		
	1	1	16.48	16.03	16.04	16.38	15.93	15.94		

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5G NR Band n48: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)		
Antenna Gain(dBi)		-0.1			Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)		
EIRP Limit (dBm)		23dBm			Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	638000	641666	645332	638000	641666	645332
					3570	3624.99	3679.98	3570	3624.99	3679.98
40	30	DFT-s PI/2 BPSK	1	1	22.28	<b>22.95</b>	22.51	22.18	<b>22.85</b>	22.41
			1	104	22.55	22.46	21.89	22.45	22.36	21.79
			50	25	22.49	22.64	22.17	22.39	22.54	22.07
			100	0	22.05	22.20	21.65	21.95	22.10	21.55
		DFT-s QPSK	1	1	22.22	22.10	22.58	22.12	22.00	22.48
			1	104	22.74	22.82	22.08	22.64	<b>22.72</b>	21.98
			50	25	22.50	22.53	22.19	22.40	22.43	22.09
		DFT-s 16QAM	100	0	21.58	22.03	21.08	21.48	21.93	20.98
			1	1	21.43	21.78	21.18	21.33	<b>21.68</b>	21.08
			1	1	19.83	20.35	19.90	19.73	20.25	19.80
		DFT-s 64QAM	1	1	17.63	18.24	17.55	17.53	18.14	17.45
		DFT-s 256QAM	1	1	20.88	21.46	21.09	20.78	<b>21.36</b>	20.99
		CP QPSK	1	1	20.35	20.69	20.57	20.25	<b>20.59</b>	20.47
		CP 16QAM	1	1	18.56	19.60	18.79	18.46	19.50	18.69
CP 64QAM	1	1	16.04	16.68	15.95	15.94	16.58	15.85		
CP 256QAM										

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## 8 MAXIMUM POWER DENSITY MEASUREMENT

### 8.1 Standard Applicable

FCC §2.1046 & 96.41

- (a) FCC 96.41(a) Digital modulation. Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.
- (b) FCC 96.41(b) Power limits. Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum PSD (dBm/MHz)
End User Device	n/a
Category A CBSD	20
Category B CBSD <sup>1</sup>	37

Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§96.15 and 96.67.

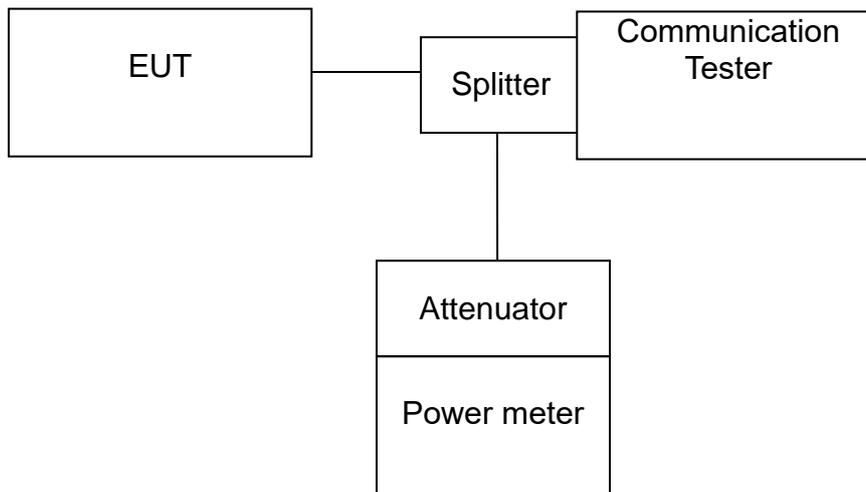
- (c) Power management. CBSDs and End User Devices shall limit their operating power to the minimum necessary for successful operations
  - (1) CBSDs must support transmit power control capability and the capability to limit their maximum EIRP and the maximum EIRP of associated End User Devices in response to instructions from an SAS.
  - (2) End User Devices shall include transmit power control capability and the capability to limit their maximum EIRP in response to instructions from their associated CBSDs.

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## 8.2 Test Set-up



**Note:** Measurement setup for testing on Antenna connector

## 8.3 Measurement Procedure

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to the specified reference bandwidth (often 1 MHz).
4. Set VBW  $\geq 3 \times$  RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep  $\geq 2 \times$  span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).
10. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

## 8.4 Measurement Result

### Peak Power Density Results:

N/A, this is an End user device.

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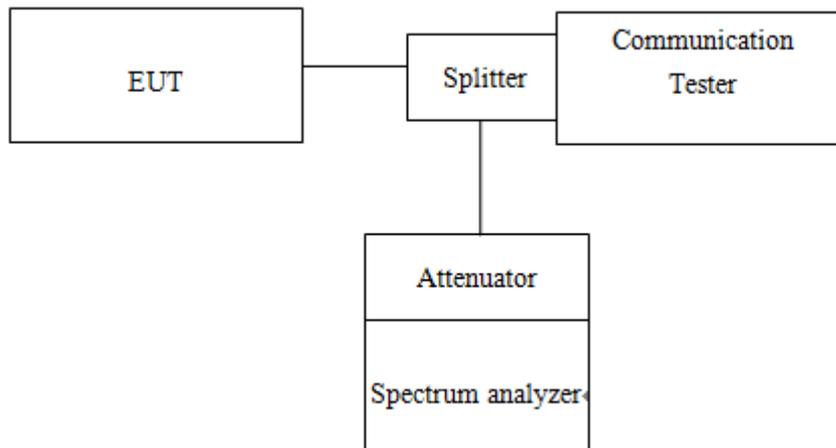
## 9 OCCUPIED BANDWIDTH MEASUREMENT

### 9.1 Standard Applicable

FCC Part 2.1049(h)

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

### 9.2 Test Set-up



### 9.3 Measurement Procedure

#### 99% & 26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

### 9.4 Measurement Result

#### Mode: LTE

LTE BAND 48 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
3552.5	55265	4.4955	<b>4.5083</b>	<b>4.4958</b>	4.4906	<b>5.048</b>	<b>5.346</b>	<b>5.167</b>	<b>5.345</b>
3625.0	55990	<b>4.5046</b>	4.4959	4.4563	<b>4.5023</b>	4.863	4.854	4.895	4.862
3697.5	56715	4.4788	4.4613	4.4572	4.4805	4.903	4.912	4.844	4.765

LTE BAND 48 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
3555.0	55290	<b>9.0008</b>	<b>8.9711</b>	<b>8.9748</b>	<b>8.9721</b>	<b>10.120</b>	<b>9.842</b>	9.847	<b>9.961</b>
3625.0	55990	8.9692	8.9397	8.9420	8.9128	9.575	9.761	<b>10.010</b>	9.581
3695.0	56690	8.9593	8.9269	8.9562	8.9393	9.667	9.382	9.531	9.572

LTE BAND 48 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
3557.5	55315	13.4500	13.4500	<b>13.4470</b>	13.4410	<b>14.840</b>	<b>14.980</b>	<b>14.750</b>	<b>14.930</b>
3625.0	55990	<b>13.4660</b>	<b>13.4740</b>	13.4210	<b>13.4520</b>	14.130	14.870	14.160	14.420
3692.5	56665	13.3860	13.4490	13.4010	13.3860	14.100	14.190	14.130	14.280

LTE BAND 48 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
3650.0	55340	<b>17.9090</b>	17.9580	<b>17.9640</b>	17.8980	<b>19.500</b>	<b>19.580</b>	<b>19.630</b>	<b>19.480</b>
3625.0	55990	17.8430	<b>17.9800</b>	17.7420	<b>17.9620</b>	18.980	18.690	18.820	18.800
3690.0	56640	17.8460	17.8040	17.8980	17.9390	18.630	18.950	18.890	19.400

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Mode: ULCA

LTE BAND 48C

Band	Bandwidth	RB Allocation/RB Offset	Frequency (MHz)	99% BW (MHz)				26 dB BW (MHz)			
				QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
LTE BAND 48C	5MHz + 20MHz	25/0 + 100/0	3625.0	22.885	22.882	22.962	22.914	23.91	24.36	23.99	24.02
LTE BAND 48C	20MHz + 5MHz	100/0 + 25/0	3625.0	22.911	23.053	22.963	22.964	24.24	23.92	24.18	23.96
LTE BAND 48C	10MHz + 20MHz	50/0 + 100/0	3625.0	27.772	27.792	27.769	27.732	29.18	29.45	29.24	29.14
LTE BAND 48C	20MHz + 10MHz	100/0 + 50/0	3625.0	27.675	27.672	27.822	27.794	29.28	29.21	29.12	29.33
LTE BAND 48C	15MHz + 20MHz	75/0 + 100/0	3625.0	32.661	32.644	32.665	32.528	34.28	34.4	34.49	34.07
LTE BAND 48C	20MHz + 15MHz	100/0 + 75/0	3625.0	32.69	32.602	32.609	32.607	34.97	36.74	34.25	34.31
LTE BAND 48C	20MHz + 20MHz	100/0 + 100/0	3625.0	37.463	37.578	37.723	37.6	39.49	39.68	39.66	39.81

Mode: 5G NR

5G NR BAND n48 Channel bandwidth: 10MHz(3550 to 3700 MHz)											
DFT-S-OFDM_SCS 30 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
3555	637000	8.5723	8.6184	8.6776	8.6202	8.6187	9.7700	9.8740	9.8650	9.9010	9.7720
3624.99	641666	8.5966	8.6130	8.5941	8.6165	8.5075	9.6830	9.7430	9.4910	9.3710	9.3980
3694.98	646332	8.6055	8.5485	8.5878	8.5805	8.5907	9.2800	9.7480	9.4660	9.1090	9.4010
5G NR BAND n48 Channel bandwidth: 15MHz(3550 to 3700 MHz)											
DFT-S-OFDM_SCS 30 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
3557.52	637168	12.8550	12.9210	12.9970	12.9250	12.8990	14.0700	14.3700	14.4200	14.0800	14.1100
3624.99	641666	12.8540	12.9680	12.8060	12.8190	12.9530	14.3400	13.6600	13.7100	13.8800	13.5800
3692.49	646166	12.9460	12.8730	12.8590	12.9000	12.8170	13.5500	14.0200	13.3700	13.7000	13.4100
5G NR BAND n48 Channel bandwidth: 20MHz(3550 to 3700 MHz)											
DFT-S-OFDM_SCS 30 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
3560.01	637334	17.8690	17.8890	17.8970	17.9070	17.9470	19.3200	19.5100	19.3900	19.4300	19.5700
3624.99	641666	17.9640	17.8960	17.9450	17.7700	17.7610	18.8100	18.8700	18.7300	18.8300	18.5300
3690	646000	17.8780	17.9680	17.7370	17.8340	17.9280	18.9900	19.1200	18.8400	18.9100	18.9500
5G NR BAND n48 Channel bandwidth: 30MHz(3550 to 3700 MHz)											
DFT-S-OFDM_SCS 30 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
3565.02	637668	26.8530	26.8120	26.8800	26.9210	26.9080	28.9200	28.6200	28.9400	29.0300	28.8600
3624.99	641666	26.6800	26.6850	26.7940	26.7110	26.8520	27.9500	28.3900	27.9700	28.0800	27.9800
3684.99	645666	26.8880	26.9020	26.7880	26.7450	26.7840	28.8100	28.2700	28.5100	28.1200	28.1700

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5G NR BAND n48 Channel bandwidth: 40MHz(3550 to 3700 MHz)											
DFT-S-OFDM_SCS 30 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
3570	638000	<b>35.6800</b>	<b>35.6920</b>	35.5890	<b>35.7460</b>	<b>35.7180</b>	<b>37.3900</b>	37.3300	<b>37.4700</b>	37.1900	<b>37.3100</b>
3624.99	641666	35.6300	35.6010	<b>35.7510</b>	35.7300	35.6600	37.3600	<b>37.4300</b>	37.3300	37.2300	37.2100
3679.98	645332	35.6000	35.6040	35.6840	35.7070	35.6220	37.3300	37.3900	37.2200	<b>37.5400</b>	37.2400

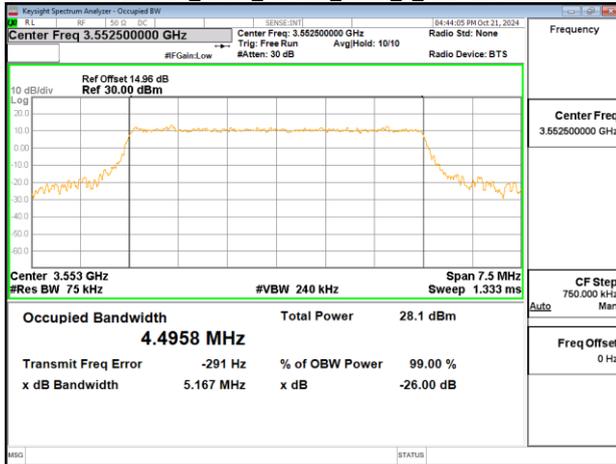
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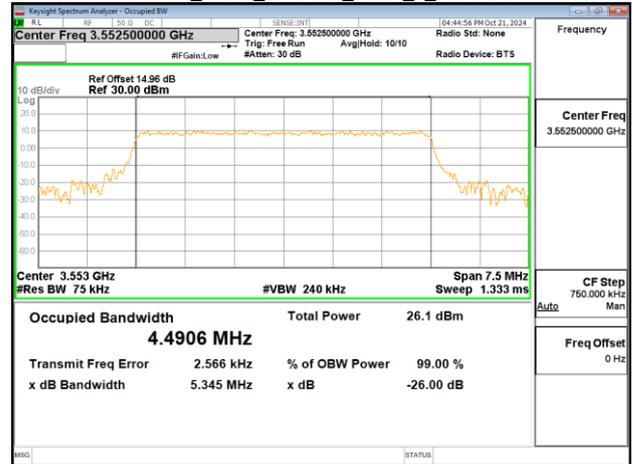
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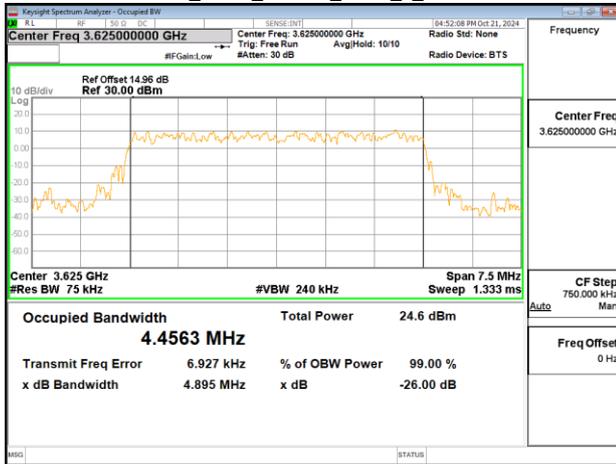
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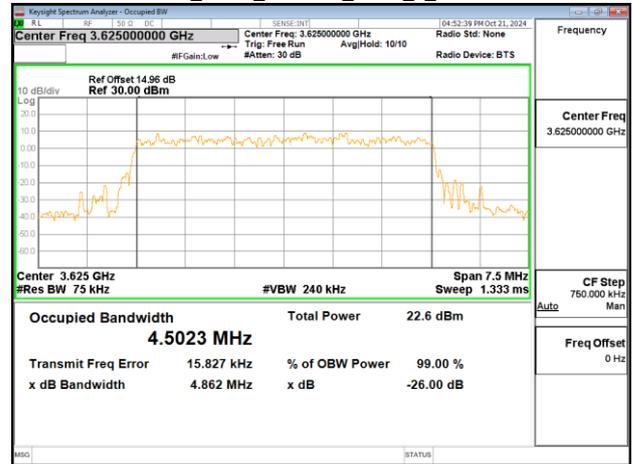
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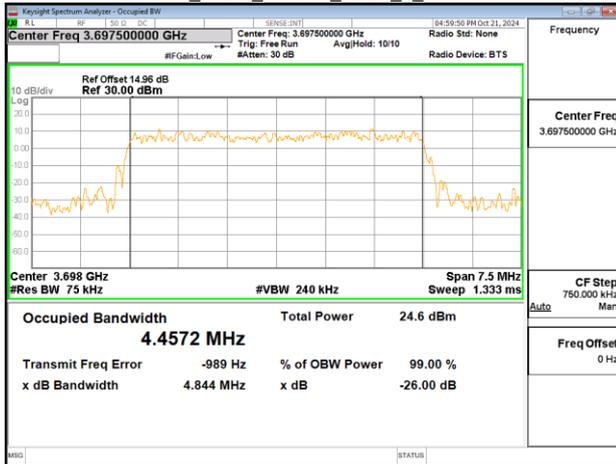
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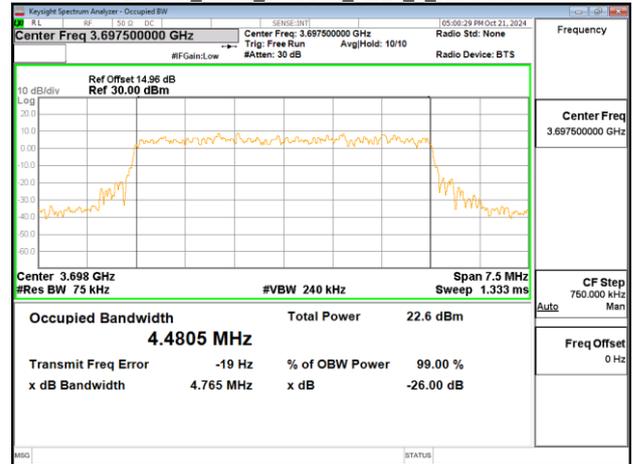
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Band48\_5MHz\_256QAM\_RB25\_0\_CH56715

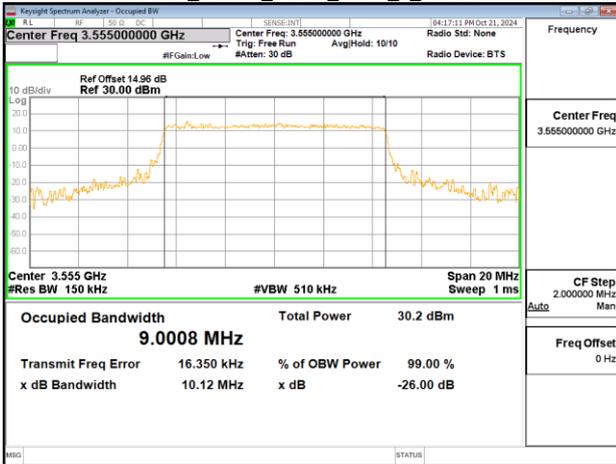


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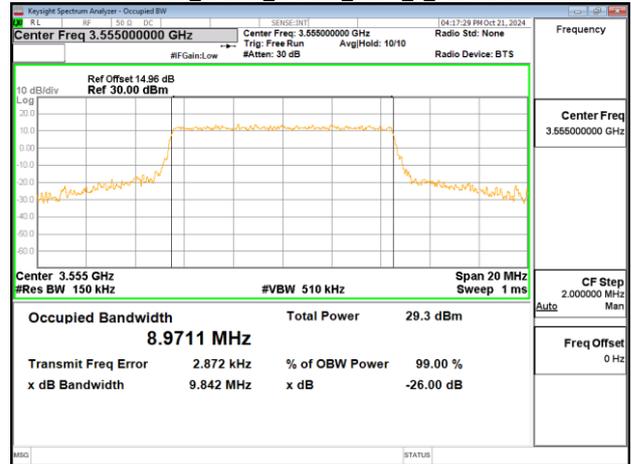
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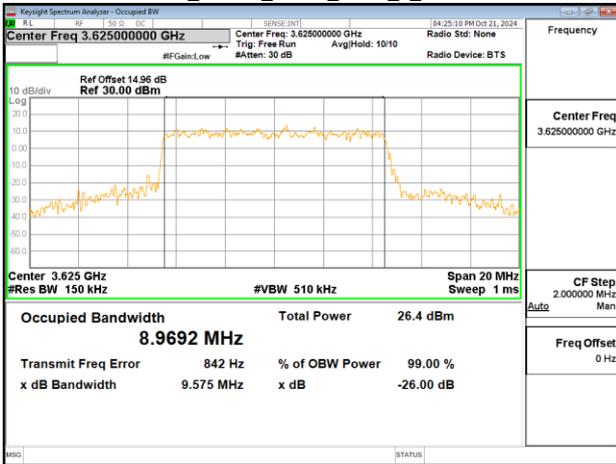
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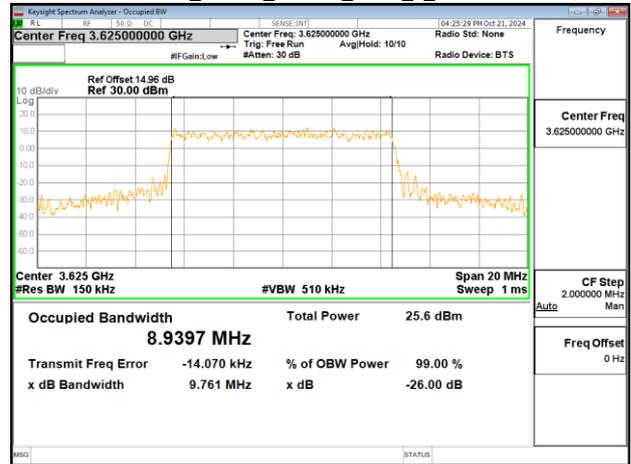
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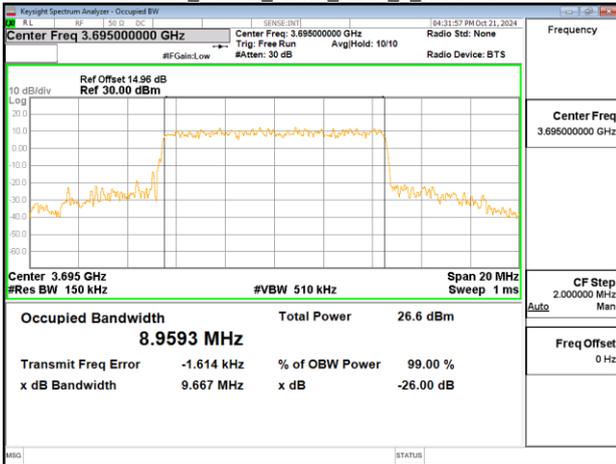
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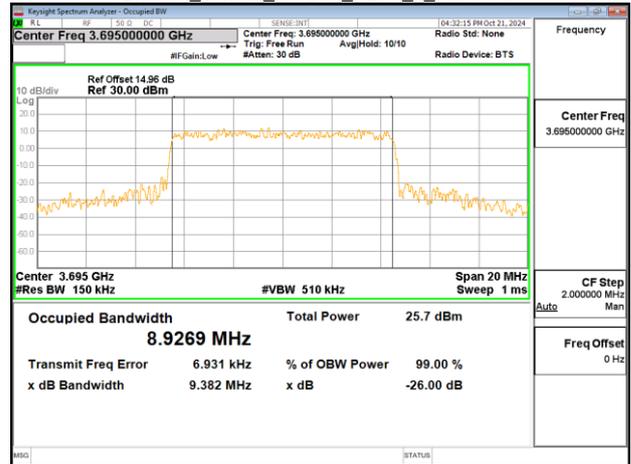
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Band48 10MHz\_QPSK\_RB50\_0\_CH5690



Band48 10MHz\_16QAM\_RB50\_0\_CH5690

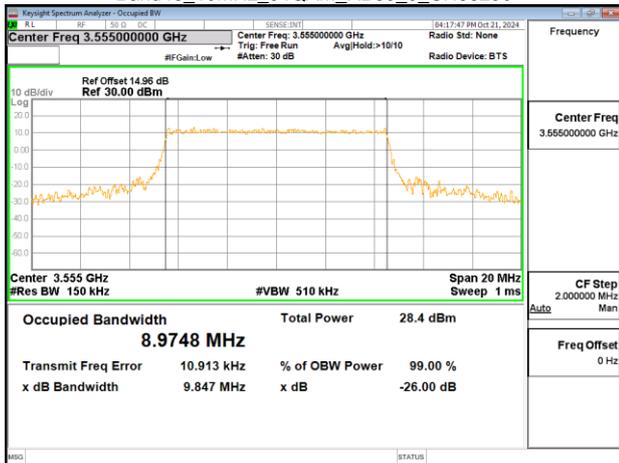


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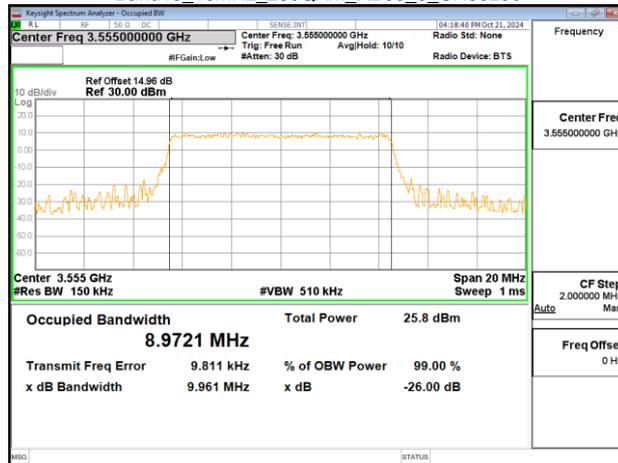
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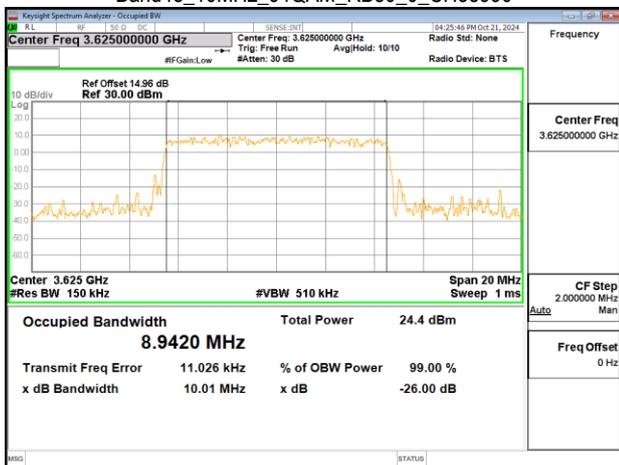
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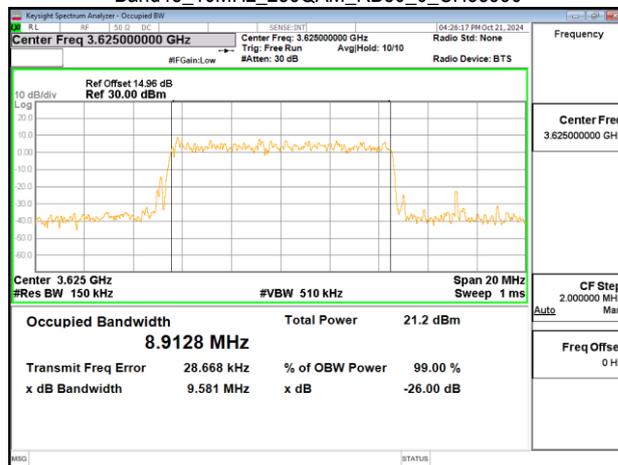
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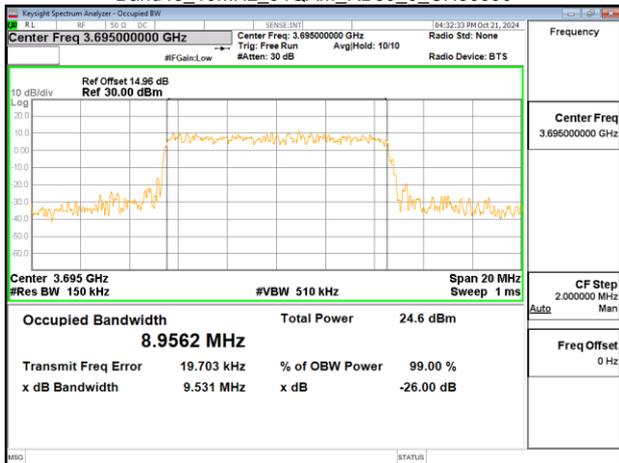
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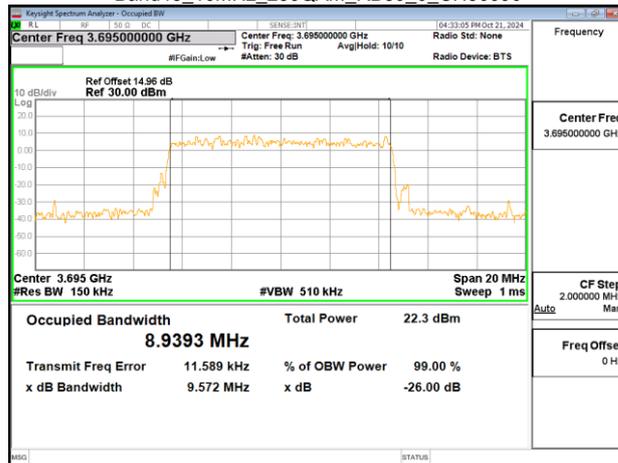
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Band48\_10MHz\_64QAM\_RB50\_0\_CH56690



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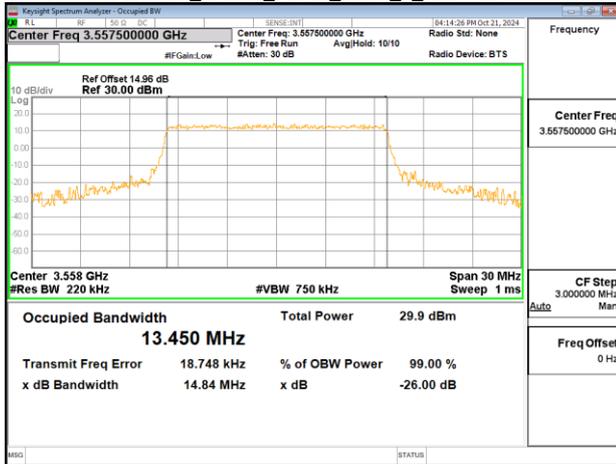


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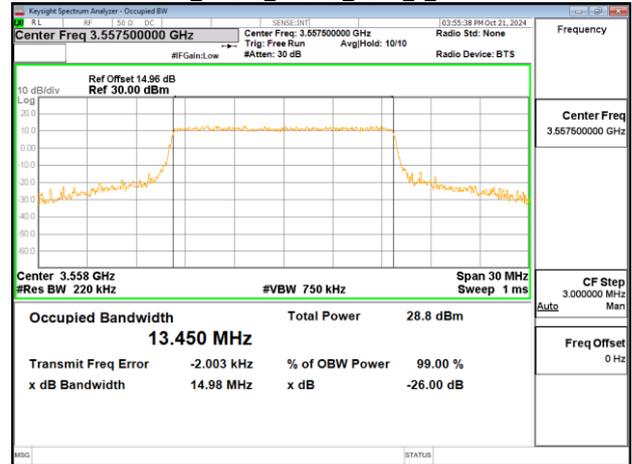
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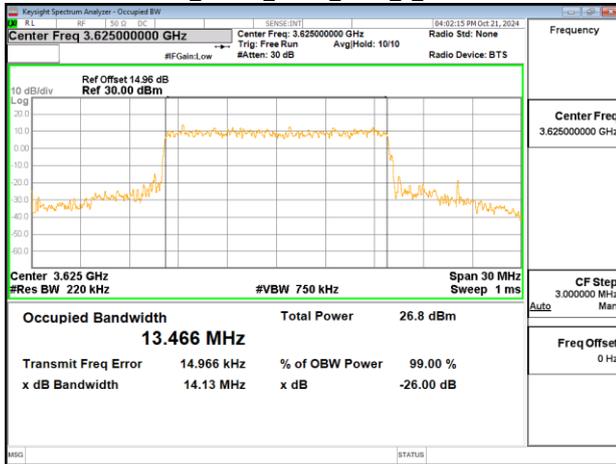
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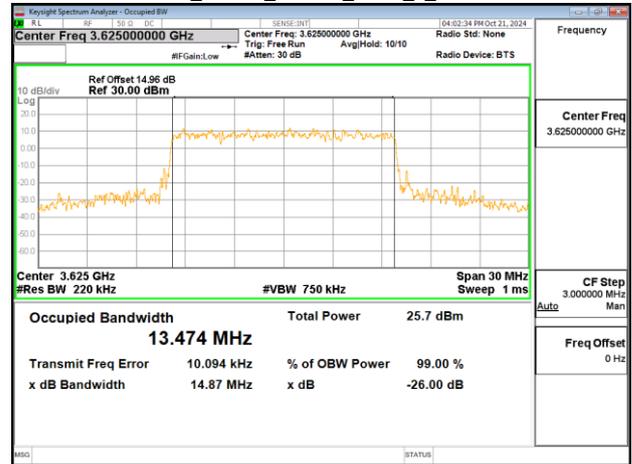
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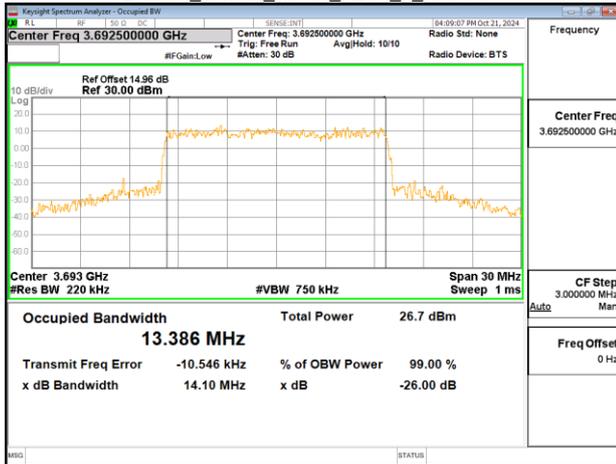
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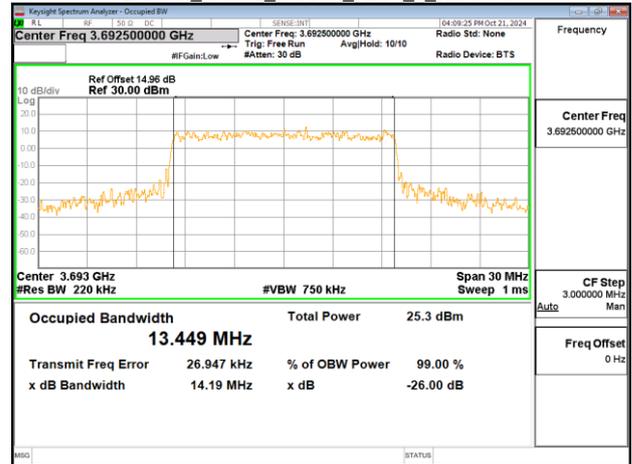
Band48 15MHz\_16QAM\_RB75\_0\_CH55990



Band48 15MHz\_QPSK\_RB75\_0\_CH56665



Band48 15MHz\_16QAM\_RB75\_0\_CH56665

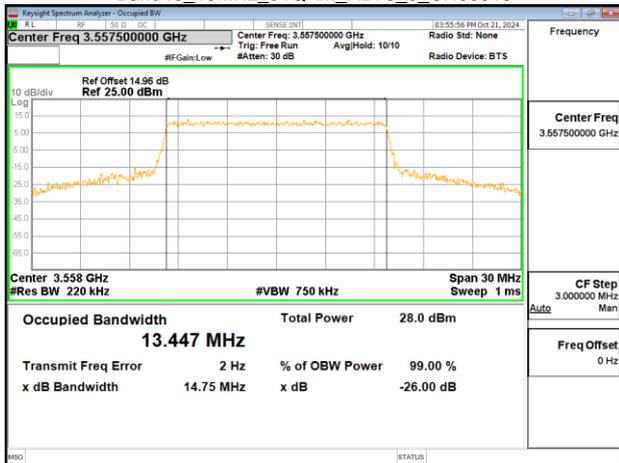


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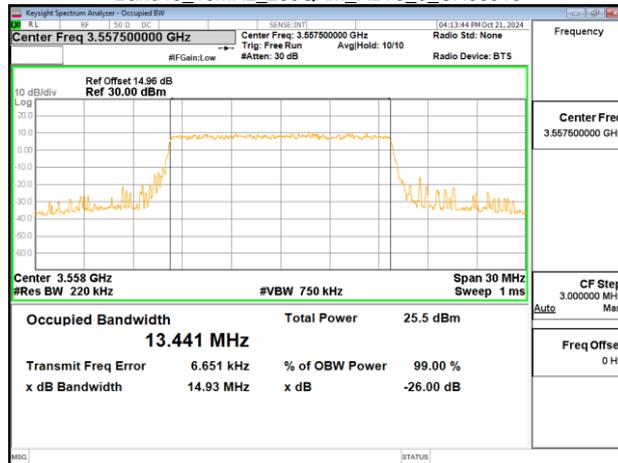
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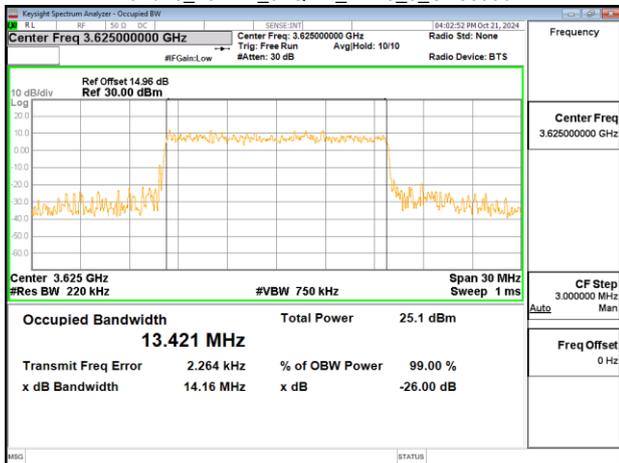
Band48\_15MHz\_64QAM\_RB75\_0\_CH55315



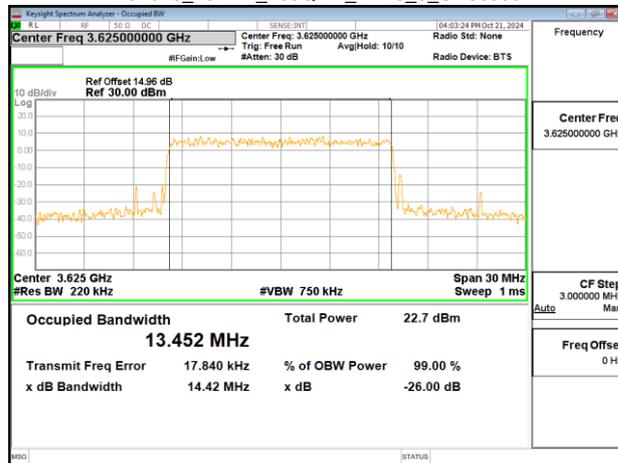
Band48\_15MHz\_256QAM\_RB75\_0\_CH55315



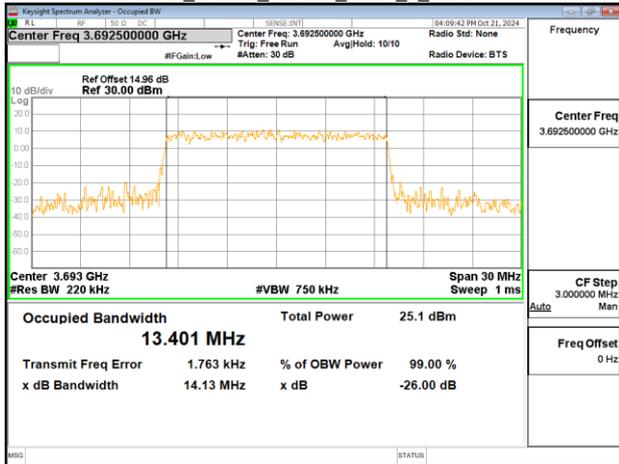
Band48\_15MHz\_64QAM\_RB75\_0\_CH55990



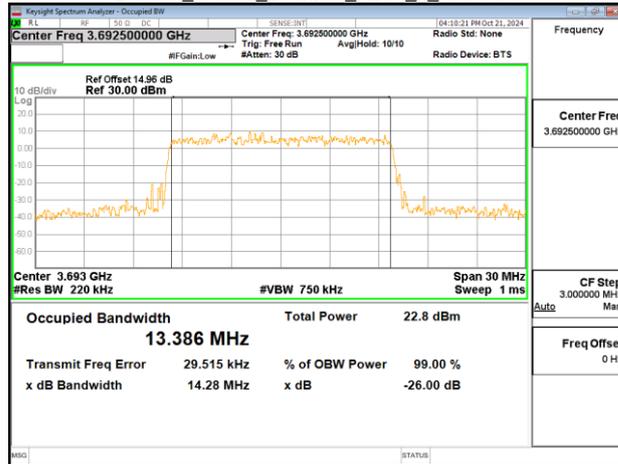
Band48\_15MHz\_256QAM\_RB75\_0\_CH55990



Band48\_15MHz\_64QAM\_RB75\_0\_CH56665



Band48\_15MHz\_256QAM\_RB75\_0\_CH56665



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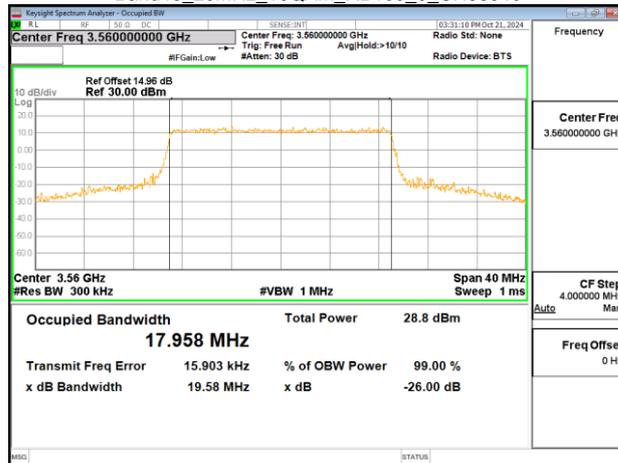
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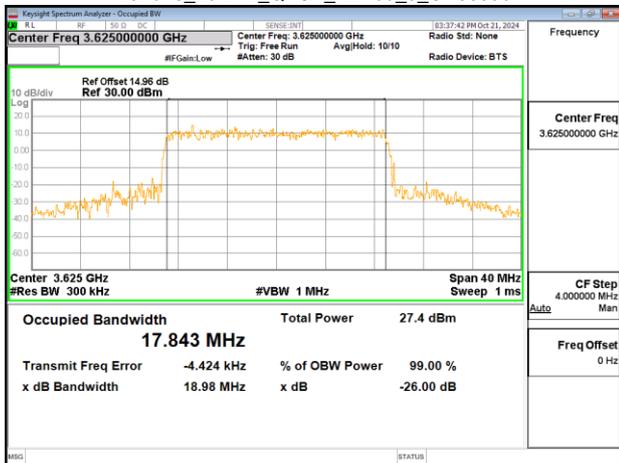
Band48\_20MHz\_QPSK\_RB100\_0\_CH55340



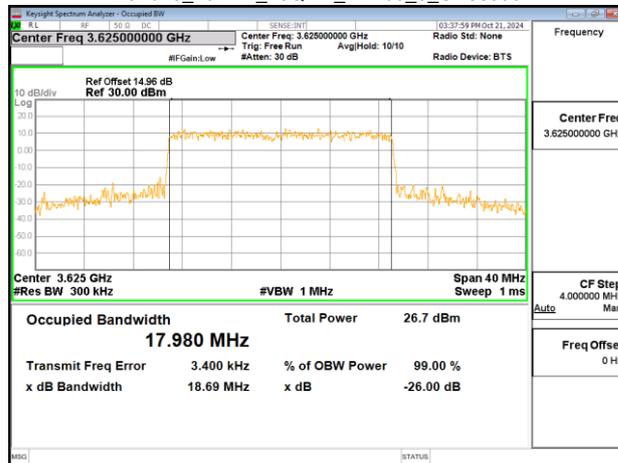
Band48\_20MHz\_16QAM\_RB100\_0\_CH55340



Band48\_20MHz\_QPSK\_RB100\_0\_CH55990



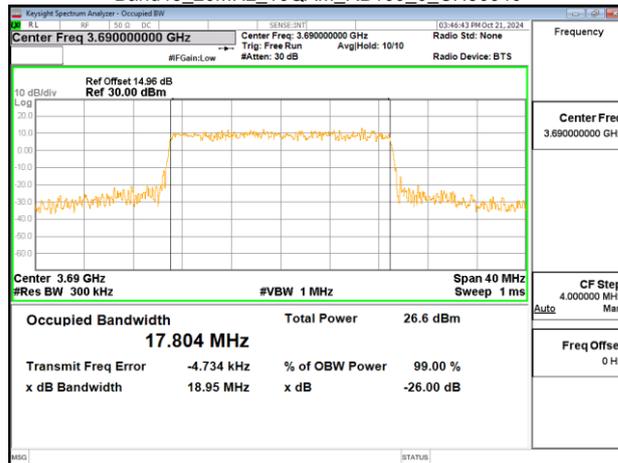
Band48\_20MHz\_16QAM\_RB100\_0\_CH55990



Band48\_20MHz\_QPSK\_RB100\_0\_CH56640



Band48\_20MHz\_16QAM\_RB100\_0\_CH56640

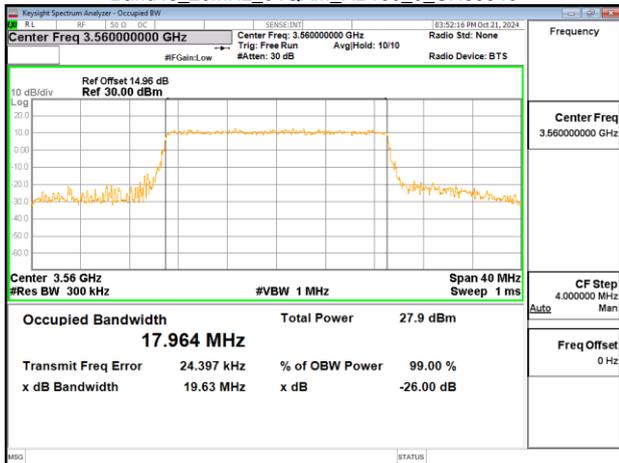


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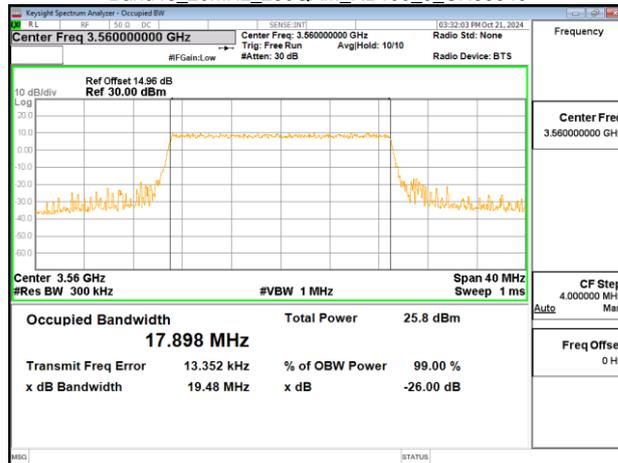
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Band48\_20MHz\_64QAM\_RB100\_0\_CH55340



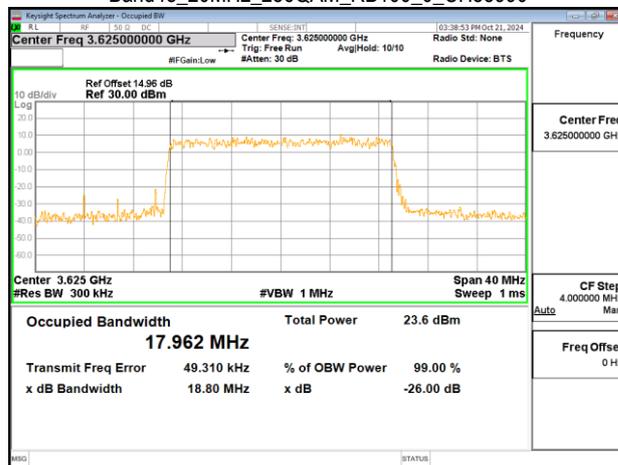
Band48\_20MHz\_256QAM\_RB100\_0\_CH55340



Band48\_20MHz\_64QAM\_RB100\_0\_CH55990



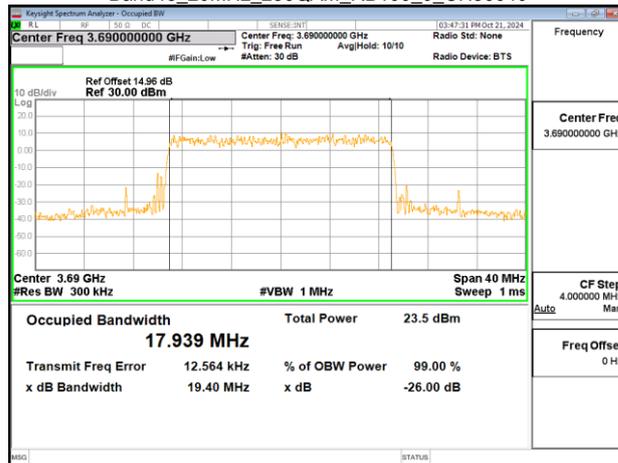
Band48\_20MHz\_256QAM\_RB100\_0\_CH55990



Band48\_20MHz\_64QAM\_RB100\_0\_CH56640



Band48\_20MHz\_256QAM\_RB100\_0\_CH56640

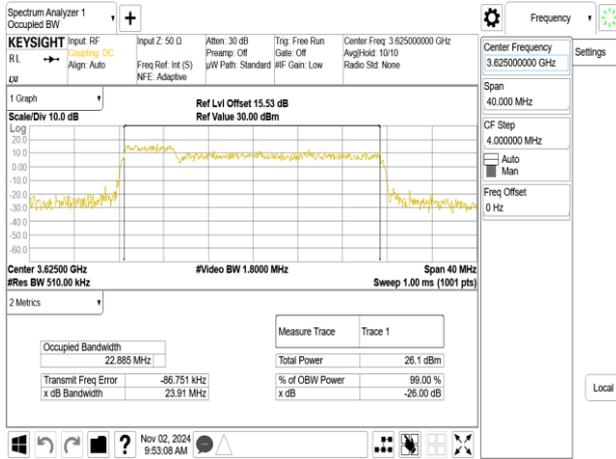


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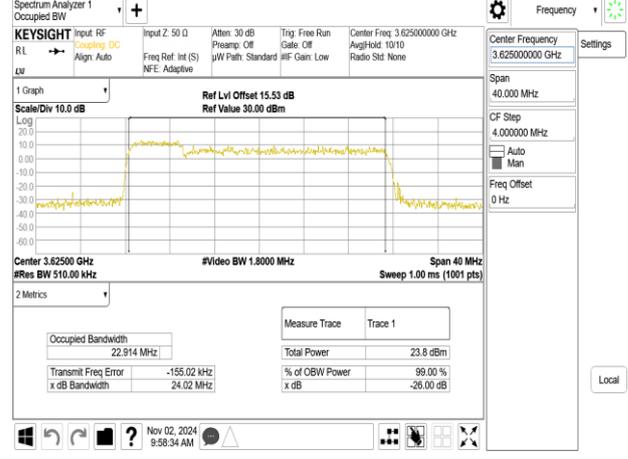
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ULCA\_Band48\_5MHz+20MHz\_QPSK\_RB25-0+RB100-0\_CH55898+CH56015



Band48\_5MHz+20MHz\_256QAM\_RB25-0+RB100-0\_CH55898+CH56015



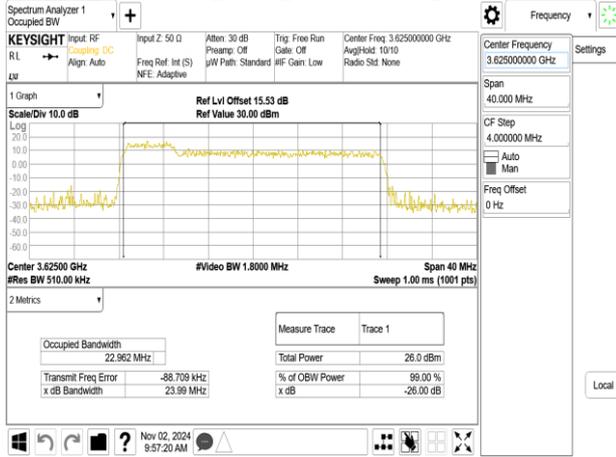
Band48\_5MHz+20MHz\_16QAM\_RB25-0+RB100-0\_CH55898+CH56015



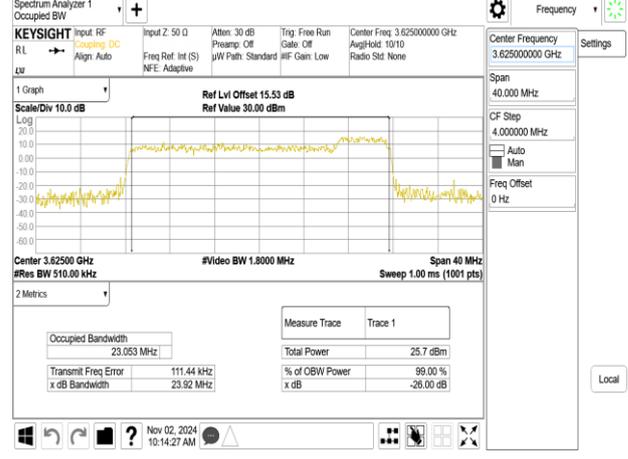
Band48\_20MHz+5MHz\_QPSK\_RB100-0+RB25-0\_CH55965+CH56082



Band48\_5MHz+20MHz\_64QAM\_RB25-0+RB100-0\_CH55898+CH56015



Band48\_20MHz+5MHz\_16QAM\_RB100-0+RB25-0\_CH55965+CH56082

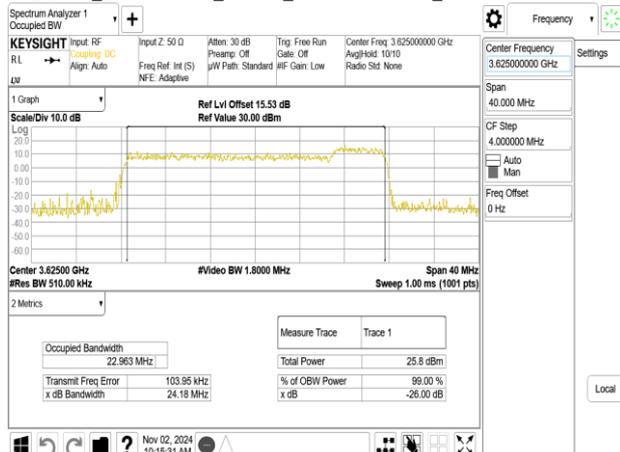


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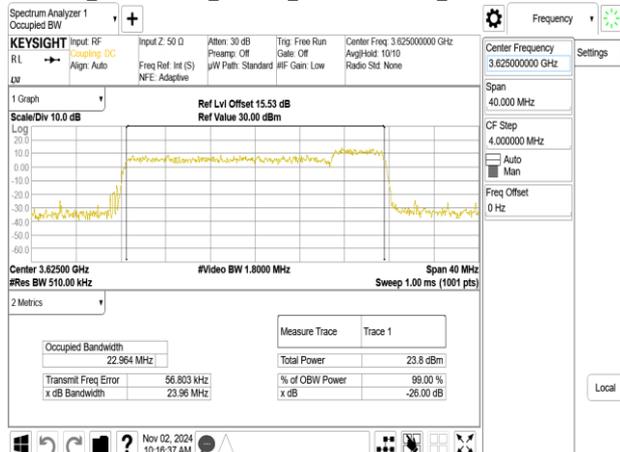
Band48\_20MHz+5MHz\_64QAM\_RB100-0+RB25-0\_CH55965+CH56082



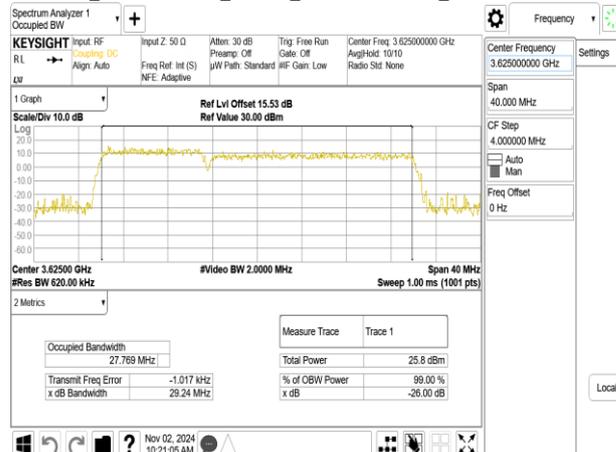
Band48\_10MHz+20MHz\_16QAM\_RB50-0+RB100-0\_CH55896+CH56040



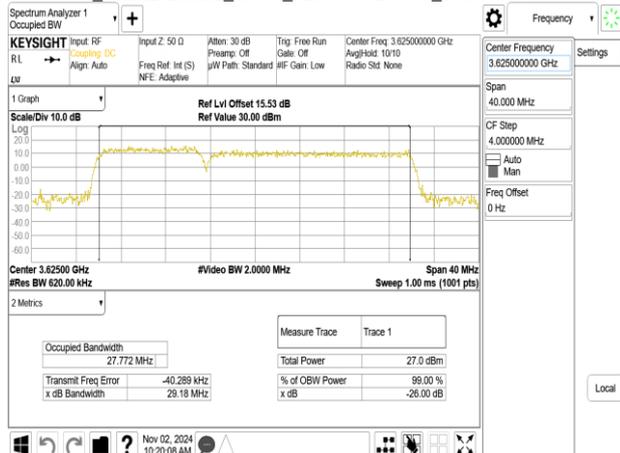
Band48\_20MHz+5MHz\_256QAM\_RB100-0+RB25-0\_CH55965+CH56082



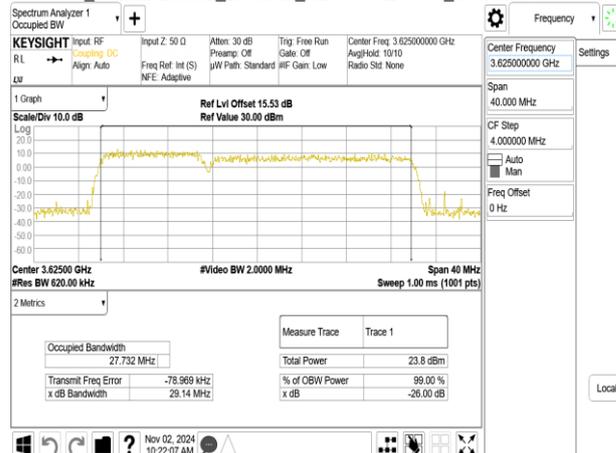
Band48\_10MHz+20MHz\_64QAM\_RB50-0+RB100-0\_CH55896+CH56040



Band48\_10MHz+20MHz\_QPSK\_RB50-0+RB100-0\_CH55896+CH56040



Band48\_10MHz+20MHz\_256QAM\_RB50-0+RB100-0\_CH55896+CH56040



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