



ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Wistron Neweb Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 308,
Taiwan

Manufacturer: Wistron Neweb Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 308,
Taiwan

Product Name: DRMR-H01

Brand Name: WNC

Model No.: DRMR-H01

Report Number: TERF2501000196ER

FCC ID NKR-DRMRH01

Date of EUT Received: January 10, 2025

Date of Test: January 13, 2025~April 22, 2025

Issue Date: June 2, 2025

Blue Yang
Approved By _____

Blue Yang

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.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2501000196ER	00	Original	May 12, 2025	Karen Huang	
TERF2501000196ER	01	Update section 1.2	June 2, 2025	Karen Huang	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	DRMR-H01
Brand Name:	WNC
Model No.:	DRMR-H01
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	355182430001716, 355182430001690, 355182430001765
Power Supply:	3.3 Vdc
Test Software (Name/Version)	Connect with Callbox

1.2 Antenna Designation

Antenna Type	Part No.	Antenna Model No.
PIFA	260-29154	PIFA#5
Monopole	260-29141	Monopole#1

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

Bands	Freq. (MHz)	Peak Antenna Gain (dBi)			
		Gain	PIFA Ant. No.	Gain	Monopole Ant. No.
B48 / n48	3550~3700	1.00	5	1.00	1

Note: Antenna information is provided by the applicant.

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1.3 Operation Frequencies

LTE Band 48			
BW (MHz)	Operation Frequency (MHz)		
5	3552.5	-	3697.5
10	3555.0	-	3695.0
15	3557.5	-	3692.5
20	3560.0	-	3690.0

LTE Band 48C			
BW (MHz)	Operation Frequency (MHz)		
25	3562.5	-	3687.5
30	3565.0	-	3685.0
35	3567.5	-	3682.5
40	3570.0	-	3680.0

NR Band 48			
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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1.4 Maximum ERP/EIRP

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)	(W)	99%	Type of Emission
48	5	3552.5	3697.5	QPSK	22.25	EIRP 0.168	4.4933	4M49G7D
				16QAM	21.37	EIRP 0.137	4.4847	4M48D7W
				64QAM	20.11	EIRP 0.103	4.4912	4M49D7W
				256QAM	17.28	EIRP 0.053	4.4657	4M47D7W
48	10	3555.0	3695.0	QPSK	22.21	EIRP 0.166	8.9666	8M97G7D
				16QAM	21.37	EIRP 0.137	8.9870	8M99D7W
				64QAM	20.10	EIRP 0.102	8.9694	8M97D7W
				256QAM	17.25	EIRP 0.053	8.9534	8M95D7W
48	15	3557.5	3692.5	QPSK	22.16	EIRP 0.164	13.4410	13M4G7D
				16QAM	21.27	EIRP 0.134	13.4380	13M4D7W
				64QAM	20.04	EIRP 0.101	13.4420	13M4D7W
				256QAM	17.21	EIRP 0.053	13.4240	13M4D7W
48	20	3560.0	3690.0	QPSK	22.13	EIRP 0.163	17.9050	17M9G7D
				16QAM	21.27	EIRP 0.134	17.8980	17M9D7W
				64QAM	20.02	EIRP 0.100	17.8750	17M9D7W
				256QAM	17.25	EIRP 0.053	17.8710	17M9D7W
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm/10MHz)	(W)	99%	Type of Emission
48	5	3552.5	3697.5	QPSK	22.25	EIRP 0.168	4.4933	4M49G7D
				16QAM	21.37	EIRP 0.137	4.4847	4M48D7W
				64QAM	20.11	EIRP 0.103	4.4912	4M49D7W
				256QAM	17.28	EIRP 0.053	4.4657	4M47D7W
48	10	3555.0	3695.0	QPSK	22.21	EIRP 0.166	8.9666	8M97G7D
				16QAM	21.37	EIRP 0.137	8.9870	8M99D7W
				64QAM	20.10	EIRP 0.102	8.9694	8M97D7W
				256QAM	17.25	EIRP 0.053	8.9534	8M95D7W
48	15	3557.5	3692.5	QPSK	20.40	EIRP 0.110	13.4410	13M4G7D
				16QAM	19.51	EIRP 0.089	13.4380	13M4D7W
				64QAM	18.28	EIRP 0.067	13.4420	13M4D7W
				256QAM	15.45	EIRP 0.035	13.4240	13M4D7W
48	20	3560.0	3690.0	QPSK	19.12	EIRP 0.082	17.9050	17M9G7D
				16QAM	18.26	EIRP 0.067	17.8980	17M9D7W
				64QAM	17.01	EIRP 0.050	17.8750	17M9D7W
				256QAM	14.24	EIRP 0.027	17.8710	17M9D7W

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LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
48C	25	3553.3	3690.0	QPSK	21.61	EIRP	0.145	22.9110	22M9G7D
				16QAM	20.61	EIRP	0.115	22.8700	22M9D7W
				64QAM	18.74	EIRP	0.075	22.8800	22M9D7W
				256QAM	16.78	EIRP	0.048	22.9270	22M9D7W
48C	30	3555.5	3690.0	QPSK	21.53	EIRP	0.142	27.7300	27M7G7D
				16QAM	20.59	EIRP	0.115	27.7200	27M7D7W
				64QAM	18.75	EIRP	0.075	27.7450	27M7D7W
				256QAM	16.79	EIRP	0.048	27.7540	27M8D7W
48C	35	3557.8	3690.0	QPSK	21.65	EIRP	0.146	32.6490	32M6G7D
				16QAM	20.65	EIRP	0.116	32.6230	32M6D7W
				64QAM	18.72	EIRP	0.074	32.6340	32M6D7W
				256QAM	16.75	EIRP	0.047	32.5980	32M6D7W
48C	40	3560.0	3690.0	QPSK	21.50	EIRP	0.141	37.5460	37M5G7D
				16QAM	20.52	EIRP	0.113	37.6130	37M6D7W
				64QAM	18.62	EIRP	0.073	37.5920	37M6D7W
				256QAM	16.63	EIRP	0.046	37.5710	37M6D7W
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm/10MHz)		(W)	99%	Type of Emission
48C	25	3553.3	3690.0	QPSK	17.64	EIRP	0.058	22.9110	22M9G7D
				16QAM	16.64	EIRP	0.046	22.8700	22M9D7W
				64QAM	14.77	EIRP	0.030	22.8800	22M9D7W
				256QAM	12.81	EIRP	0.019	22.9270	22M9D7W
48C	30	3555.5	3690.0	QPSK	16.76	EIRP	0.047	27.7300	27M7G7D
				16QAM	15.82	EIRP	0.038	27.7200	27M7D7W
				64QAM	13.98	EIRP	0.025	27.7450	27M7D7W
				256QAM	12.02	EIRP	0.016	27.7540	27M8D7W
48C	35	3557.8	3690.0	QPSK	16.21	EIRP	0.042	32.6490	32M6G7D
				16QAM	15.21	EIRP	0.033	32.6230	32M6D7W
				64QAM	13.28	EIRP	0.021	32.6340	32M6D7W
				256QAM	11.31	EIRP	0.014	32.5980	32M6D7W
48C	40	3560.0	3690.0	QPSK	15.48	EIRP	0.035	37.5460	37M5G7D
				16QAM	14.50	EIRP	0.028	37.6130	37M6D7W
				64QAM	12.60	EIRP	0.018	37.5920	37M6D7W
				256QAM	10.61	EIRP	0.012	37.5710	37M6D7W

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5G NR Band n48_Part96 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	21.19	22.19	0.166	8.9564	8956.4	8M96G7W
			DFT-s QPSK	20.96	21.96	0.157	8.9401	8940.1	8M94G7W
			DFT-s QAM	19.97	20.97	0.125	8.9782	8978.2	8M98D7W
			CP QPSK	19.72	20.72	0.118	8.9401	8940.1	8M94G7W
			CP QAM	18.93	19.93	0.098	8.9782	8978.2	8M98D7W
15	3557.52	3692.49	DFT-s PI/2 BPSK	21.25	22.25	0.168	13.517	13517.0	13M5G7W
			DFT-s QPSK	21.18	22.18	0.165	13.445	13445.0	13M4G7W
			DFT-s QAM	20.04	21.04	0.127	13.489	13489.0	13M5D7W
			CP QPSK	19.99	20.99	0.126	13.445	13445.0	13M4G7W
			CP QAM	19.40	20.40	0.110	13.489	13489.0	13M5D7W
20	3560.01	3690	DFT-s PI/2 BPSK	21.27	22.27	0.169	17.975	17975.0	18M0G7W
			DFT-s QPSK	21.08	22.08	0.161	17.871	17871.0	17M9G7W
			DFT-s QAM	20.05	21.05	0.127	17.995	17995.0	18M0D7W
			CP QPSK	19.66	20.66	0.116	17.871	17871.0	17M9G7W
			CP QAM	19.22	20.22	0.105	17.995	17995.0	18M0D7W
30	3565.02	3684.99	DFT-s PI/2 BPSK	21.26	22.26	0.168	28.635	28635.0	28M6G7W
			DFT-s QPSK	21.22	22.22	0.167	28.584	28584.0	28M6G7W
			DFT-s QAM	19.84	20.84	0.121	28.666	28666.0	28M7D7W
			CP QPSK	19.12	20.12	0.103	28.584	28584.0	28M6G7W
			CP QAM	18.72	19.72	0.094	28.666	28666.0	28M7D7W
40	3570	3679.98	DFT-s PI/2 BPSK	21.26	22.26	0.168	38.669	38669.0	38M7G7W
			DFT-s QPSK	21.22	22.22	0.167	38.594	38594.0	38M6G7W
			DFT-s QAM	19.76	20.76	0.119	38.866	38866.0	38M9D7W
			CP QPSK	19.21	20.21	0.105	38.594	38594.0	38M6G7W
			CP QAM	18.82	19.82	0.096	38.866	38866.0	38M9D7W

5G NR Band n48_Part96 Uplink frequency band : 3550 to 3700 MHz									
Bandwidth (MHz)	Low Frequency (MHz)	Upper Frequency (MHz)	Modulation	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Type of Emission
10	3555	3694.98	DFT-s PI/2 BPSK	21.19	22.19	0.166	8.9564	8956.4	8M96G7W
			DFT-s QPSK	20.96	21.96	0.157	8.9401	8940.1	8M94G7W
			DFT-s QAM	19.97	20.97	0.125	8.9782	8978.2	8M98D7W
			CP QPSK	19.72	20.72	0.118	8.9401	8940.1	8M94G7W
			CP QAM	18.93	19.93	0.098	8.9782	8978.2	8M98D7W
15	3557.52	3692.49	DFT-s PI/2 BPSK	19.49	20.49	0.112	13.517	13517.0	13M5G7W
			DFT-s QPSK	19.42	20.42	0.110	13.445	13445.0	13M4G7W
			DFT-s QAM	18.28	19.28	0.085	13.489	13489.0	13M5D7W
			CP QPSK	18.23	19.23	0.084	13.445	13445.0	13M4G7W
			CP QAM	17.64	18.64	0.073	13.489	13489.0	13M5D7W
20	3560.01	3690	DFT-s PI/2 BPSK	18.26	19.26	0.084	17.975	17975.0	18M0G7W
			DFT-s QPSK	18.07	19.07	0.081	17.871	17871.0	17M9G7W
			DFT-s QAM	17.04	18.04	0.064	17.995	17995.0	18M0D7W
			CP QPSK	16.65	17.65	0.058	17.871	17871.0	17M9G7W
			CP QAM	16.21	17.21	0.053	17.995	17995.0	18M0D7W
30	3565.02	3684.99	DFT-s PI/2 BPSK	16.49	17.49	0.056	28.635	28635.0	28M6G7W
			DFT-s QPSK	16.45	17.45	0.056	28.584	28584.0	28M6G7W
			DFT-s QAM	15.07	16.07	0.040	28.666	28666.0	28M7D7W
			CP QPSK	14.35	15.35	0.034	28.584	28584.0	28M6G7W
			CP QAM	13.95	14.95	0.031	28.666	28666.0	28M7D7W
40	3570	3679.98	DFT-s PI/2 BPSK	15.24	16.24	0.042	38.669	38669.0	38M7G7W
			DFT-s QPSK	15.20	16.20	0.042	38.594	38594.0	38M6G7W
			DFT-s QAM	13.74	14.74	0.030	38.866	38866.0	38M9D7W
			CP QPSK	13.19	14.19	0.026	38.594	38594.0	38M6G7W
			CP QAM	12.80	13.80	0.024	38.866	38866.0	38M9D7W

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1.5 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

1.6 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 SAC 2 SAC 3 Conduction 1 Conducted 1 Conducted 2 Conducted 3 Conducted 4 Conducted 5 Conducted 6	TW0027	TW3702
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C SAC C SAC D SAC G Conducted A Conducted B Conducted C Conducted D Conducted E Conducted F Conducted G	TW0028	

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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1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 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:

Mode: LTE

LTE Band 48

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 48_20M QPSK	3.3	440

Mode: ULCA

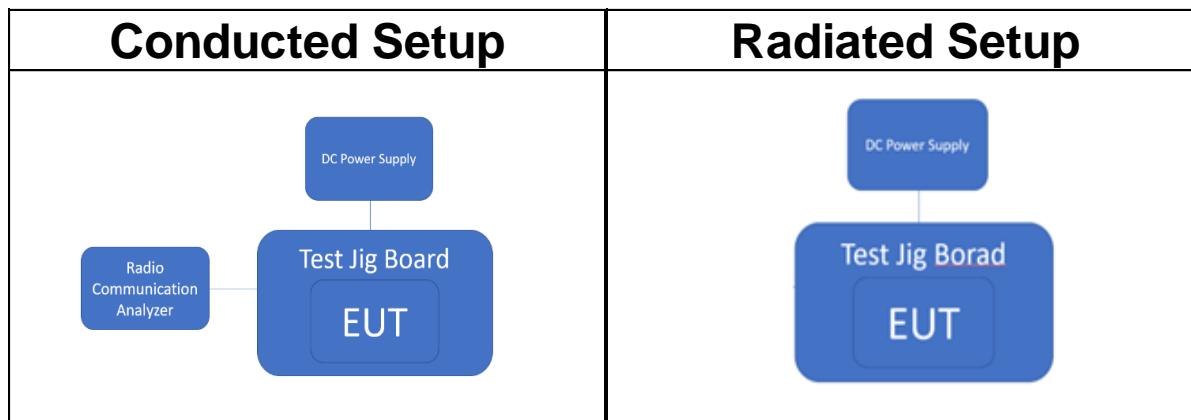
LTE CA Band 48C

Test mode	DC voltage (V)	DC current (mA)
LTE CA Band 48C 20M+20M QPSK	3.3	430

Mode: NR

5G NR BAND n48_Part96		
CP-OFDM_SCS 30 kHz		
Test mode	DC voltage (V)	DC current (mA)
Bandwidth:10MHz Mod:256QAM	3.3	360
Bandwidth:15MHz Mod:256QAM	3.3	340
Bandwidth:20MHz Mod:256QAM	3.3	340
Bandwidth:30MHz Mod:256QAM	3.3	350
Bandwidth:40MHz Mod:256QAM	3.3	340

2.6 Test Configuration



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

2.7 Control Unit(s)

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 An- tenna	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 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. CA Configuration

E-UTRA Intra-Band CA configuration / Bandwidth combination set		
E-UTRA CA configuration	Component carriers in order of increasing carrier frequency Channel bandwidth for PCC and SCC [MHz]	Maximum aggregated band-width [MHz]
CA_48C	5+20 / 20+5	25
	10+20 / 20+10	30
	15+20 / 20+15	35
	20+20	40

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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	256QAM	1	Half	Full
48	v	-	v	-	-	v	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		v

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Mode: ULCA

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #				Full	
		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	
Max. Output Frequency	48C	v	v	v				v	v	v	v	v	v	v	v				v	v
	48C		v							v	v									v
Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #				Full	
		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	
26dB and Peak-to-Av	48C		v					v	v	v	v	v	v	v	v				v	v
	48C		v					v	v	v	v			v						v
Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #				Full	
		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	
Band Edge	48C	v	v	v					v	v	v				v					v

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #				Full
		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
Conducted	48C	v	v	v					v	v	v				v				v
Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #				Full
		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
Radiated	48C	v	v	v					v		v				v				v

Mode: NR

Test Items	Band	Test Channel			Bandwidth (MHz)										Modulation DFT-s-OFDM				Modulation CP-OFDM				RB #						
		L	M	H	5	10	15	20	25	30	40	45	50	60	70	80	90	100	BPSK	QPSK	16QAM	64QAM	256QAM	Edge Left	Edge 1RB_Right	Inner Left	Inner Right	Inner Full	Outer Full
Conducted Power	48 (par96)	v	v	v		v	v	v		v								v	v	v	v	v	v	v	v	v	v	v	
Frequency Stability			v							v									v									v	
Occupied Bandwidth		v	v	v		v	v	v		v								v	v	v	v	v						v	
Bandedge		v	v	v		v	v	v		v								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											v

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Power Density	+/- 0.61 dB
Output Power measurement	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.16 dB
	+/- 2.16 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	
	+/- 4.1 dB	30MHz - 1000MHz	
	+/- 3.37 dB	1GHz - 18GHz	
	+/- 3.83 dB	18GHz - 40GHz	
Polarization: Horizontal	+/- 1.89 dB	9kHz~30MHz	
	+/- 4.1 dB	30MHz - 1000MHz	
	+/- 3.37 dB	1GHz - 18GHz	
	+/- 3.83 dB	18GHz - 40GHz	
Radiated Spurious Emission	+/- 2 dB	33GHz-50GHz	
	+/- 1.59 dB	50GHz-60GHz	
	+/- 1.71 dB	60GHz-90GHz	
	+/- 1.64 dB	90GHz-140GHz	
	+/- 3.84 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. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
DC Block	Mini-Circuits	BLK-18-S+	12	12/11/2024	12/10/2025
DC Power Supply	Gwinsteck	SPS-3610	GEV856761	09/13/2024	09/12/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/16/2024	12/15/2025
Radio Communication Analyzer	Anritsu	MT8821C	6262044751	11/04/2024	11/03/2025
Splitter	RF-Lambda	RFLT2W1G18G	11-JSPF412-018	12/11/2024	12/10/2025
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. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
DC Block	Mini-Circuits	BLK-18-S+	12	12/11/2024	12/10/2025
DC Power Supply	Gwinsteck	SPS-3610	GEV856761	09/13/2024	09/12/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/16/2024	12/15/2025
Radio Communication Analyzer	Anritsu	MT8821C	6262044751	11/04/2024	11/03/2025
Splitter	RF-Lambda	RFLT2W1G18G	11-JSPF412-018	12/11/2024	12/10/2025
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:NR

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	8	12/11/2024	12/10/2025
DC Block	Mini-Circuits	BLK-18-S+	12	12/11/2024	12/10/2025
DC Power Supply	Gwinstek	SPS-3610	GEV856750	08/14/2024	08/13/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/16/2024	12/15/2025
PXA Spectrum Analyzer	KEYSIGHT	N9030B	MY61330494	04/16/2025	04/15/2026
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/24/2024	04/23/2025
PXA Spectrum Analyzer	Keysight	N9030B	MY61330494	03/22/2024	03/21/2025
Radio Communication Analyzer	KEYSIGHT	E7515B	MY59321561	07/11/2024	07/10/2025
Radio Communication Analyzer	KEYSIGHT	E7515B	MY60191250	02/17/2025	02/16/2026
Splitter	RF-Lambda	RFLT2W1G18G	11-JSPF412-018	12/11/2024	12/10/2025
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. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	22	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 3250-3750	Micro-Tronics	BRM15247	1	12/11/2024	12/10/2025
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
DC Power Supply	Gwinstek	SPS-3610	GEV856733	12/04/2024	12/03/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/05/2025	02/04/2026
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	12/20/2024	12/19/2025
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	Anritsu	MT8821C	6262044670	08/23/2024	08/22/2025
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. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	22	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 3250-3750	Micro-Tronics	BRM15247	1	12/11/2024	12/10/2025
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
DC Power Supply	Gwinstek	SPS-3610	GEV856733	12/04/2024	12/03/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/05/2025	02/04/2026
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	12/20/2024	12/19/2025
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	Anritsu	MT8821C	6262044670	08/23/2024	08/22/2025
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:NR

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	22	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 3250-3750	Micro-Tronics	BRM15247	1	12/11/2024	12/10/2025
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
DC Power Supply	Gwinstek	SPS-3610	GEV856733	12/04/2024	12/03/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/05/2025	02/04/2026
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	12/20/2024	12/19/2025
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	MY59321561	07/11/2024	07/10/2025
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

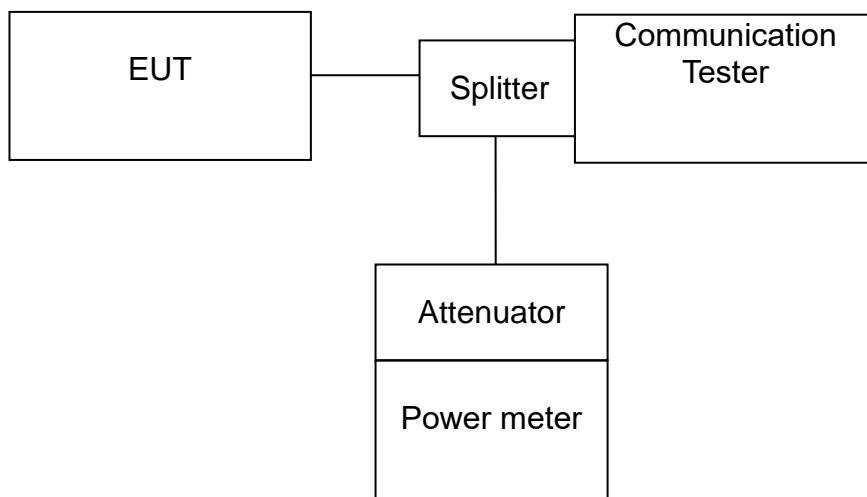
(a) FCC 96.41(a) Digital modulation. Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.

(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 ¹	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)		1	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	20.59	21.59	23	-1.41	
				1	24	20.56	21.56	23	-1.44	
				12	6	19.72	20.72	23	-2.28	
				25	0	19.75	20.75	23	-2.25	
	55990	3625	QPSK	1	0	21.25	22.25	23	-0.75	
				1	24	21.23	22.23	23	-0.77	
				12	6	20.17	21.17	23	-1.83	
				25	0	20.19	21.19	23	-1.81	
	56715	3697.5	QPSK	1	0	21.16	22.16	23	-0.84	
				1	24	21.11	22.11	23	-0.89	
				12	6	20.05	21.05	23	-1.95	
				25	0	20.06	21.06	23	-1.94	
5	55265	3552.5	16QAM	1	0	19.93	20.93	23	-2.07	
				1	24	19.95	20.95	23	-2.05	
				12	6	18.68	19.68	23	-3.32	
				25	0	18.80	19.80	23	-3.2	
	55990	3625	16QAM	1	0	20.37	21.37	23	-1.63	
				1	24	20.36	21.36	23	-1.64	
				12	6	19.09	20.09	23	-2.91	
				25	0	19.21	20.21	23	-2.79	
	56715	3697.5	16QAM	1	0	20.24	21.24	23	-1.76	
				1	24	20.29	21.29	23	-1.71	
				12	6	18.95	19.95	23	-3.05	
				25	0	19.12	20.12	23	-2.88	
5	55265	3552.5	64QAM	1	0	18.69	19.69	23	-3.31	
				1	24	18.70	19.70	23	-3.3	
				12	6	17.67	18.67	23	-4.33	
				25	0	17.70	18.70	23	-4.3	
	55990	3625	64QAM	1	0	19.11	20.11	23	-2.89	
				1	24	19.09	20.09	23	-2.91	
				12	6	18.09	19.09	23	-3.91	
				25	0	18.12	19.12	23	-3.88	
	56715	3697.5	64QAM	1	0	18.95	19.95	23	-3.05	
				1	24	19.03	20.03	23	-2.97	
				12	6	17.97	18.97	23	-4.03	
				25	0	18.03	19.03	23	-3.97	
5	55265	3552.5	256QAM	1	0	15.78	16.78	23	-6.22	
				1	24	15.81	16.81	23	-6.19	
				12	6	15.86	16.86	23	-6.14	
				25	0	15.81	16.81	23	-6.19	
	55990	3625	256QAM	1	0	16.28	17.28	23	-5.72	
				1	24	16.19	17.19	23	-5.81	
				12	6	16.21	17.21	23	-5.79	
				25	0	16.26	17.26	23	-5.74	
	56715	3697.5	256QAM	1	0	16.10	17.10	23	-5.9	
				1	24	16.13	17.13	23	-5.87	
				12	6	16.19	17.19	23	-5.81	
				25	0	16.13	17.13	23	-5.87	

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Antenna gain (dBi)		LTE Band 48_Uplink frequency band : 3550 to 3700 MHz							
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MH)	EIRP Average (dBm/10MH)	EIRP Limit (dBm/10MH)	Margin (dBm/10MHz)
5	55265	3552.5	QPSK	1	0	20.59	21.59	23	-1.41
				1	24	20.56	21.56	23	-1.44
				12	6	19.72	20.72	23	-2.28
				25	0	19.75	20.75	23	-2.25
	55990	3625	QPSK	1	0	21.25	22.25	23	-0.75
				1	24	21.23	22.23	23	-0.77
				12	6	20.17	21.17	23	-1.83
				25	0	20.19	21.19	23	-1.81
	56715	3697.5	QPSK	1	0	21.16	22.16	23	-0.84
				1	24	21.11	22.11	23	-0.89
				12	6	20.05	21.05	23	-1.95
				25	0	20.06	21.06	23	-1.94
5	55265	3552.5	16QAM	1	0	19.93	20.93	23	-2.07
				1	24	19.95	20.95	23	-2.05
				12	6	18.68	19.68	23	-3.32
				25	0	18.80	19.80	23	-3.2
	55990	3625	16QAM	1	0	20.37	21.37	23	-1.63
				1	24	20.36	21.36	23	-1.64
				12	6	19.09	20.09	23	-2.91
				25	0	19.21	20.21	23	-2.79
	56715	3697.5	16QAM	1	0	20.24	21.24	23	-1.76
				1	24	20.29	21.29	23	-1.71
				12	6	18.95	19.95	23	-3.05
				25	0	19.12	20.12	23	-2.88
5	55265	3552.5	64QAM	1	0	18.69	19.69	23	-3.31
				1	24	18.70	19.70	23	-3.3
				12	6	17.67	18.67	23	-4.33
				25	0	17.70	18.70	23	-4.3
	55990	3625	64QAM	1	0	19.11	20.11	23	-2.89
				1	24	19.09	20.09	23	-2.91
				12	6	18.09	19.09	23	-3.91
				25	0	18.12	19.12	23	-3.88
	56715	3697.5	64QAM	1	0	18.95	19.95	23	-3.05
				1	24	19.03	20.03	23	-2.97
				12	6	17.97	18.97	23	-4.03
				25	0	18.03	19.03	23	-3.97
5	55265	3552.5	256QAM	1	0	15.78	16.78	23	-6.22
				1	24	15.81	16.81	23	-6.19
				12	6	15.86	16.86	23	-6.14
				25	0	15.81	16.81	23	-6.19
	55990	3625	256QAM	1	0	16.28	17.28	23	-5.72
				1	24	16.19	17.19	23	-5.81
				12	6	16.21	17.21	23	-5.79
				25	0	16.26	17.26	23	-5.74
	56715	3697.5	256QAM	1	0	16.10	17.10	23	-5.9
				1	24	16.13	17.13	23	-5.87
				12	6	16.19	17.19	23	-5.81
				25	0	16.13	17.13	23	-5.87

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Antenna gain (dBi)		LTE Band 48_Uplink frequency band : 3550 to 3700 MHz							
BW Hz)	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	20.82	21.82	23	-1.18
				1	49	20.74	21.74	23	-1.26
				25	12	19.78	20.78	23	-2.22
				50	0	19.75	20.75	23	-2.25
	55990	3625	QPSK	1	0	21.21	22.21	23	-0.79
				1	49	21.20	22.20	23	-0.8
				25	12	20.15	21.15	23	-1.85
				50	0	20.18	21.18	23	-1.82
	56690	3695	QPSK	1	0	21.15	22.15	23	-0.85
				1	49	21.04	22.04	23	-0.96
				25	12	20.08	21.08	23	-1.92
				50	0	20.09	21.09	23	-1.91
10	55290	3555	16QAM	1	0	19.93	20.93	23	-2.07
				1	49	20.01	21.01	23	-1.99
				25	12	18.79	19.79	23	-3.21
				50	0	18.79	19.79	23	-3.21
	55990	3625	16QAM	1	0	20.37	21.37	23	-1.63
				1	49	20.35	21.35	23	-1.65
				25	12	19.21	20.21	23	-2.79
				50	0	19.21	20.21	23	-2.79
	56690	3695	16QAM	1	0	20.20	21.20	23	-1.8
				1	49	20.31	21.31	23	-1.69
				25	12	19.12	20.12	23	-2.88
				50	0	19.12	20.12	23	-2.88
10	55290	3555	64QAM	1	0	18.67	19.67	23	-3.33
				1	49	18.76	19.76	23	-3.24
				25	12	17.72	18.72	23	-4.28
				50	0	17.77	18.77	23	-4.23
	55990	3625	64QAM	1	0	19.10	20.10	23	-2.9
				1	49	19.09	20.09	23	-2.91
				25	12	18.14	19.14	23	-3.86
				50	0	18.19	19.19	23	-3.81
	56690	3695	64QAM	1	0	18.98	19.98	23	-3.02
				1	49	19.07	20.07	23	-2.93
				25	12	18.05	19.05	23	-3.95
				50	0	18.08	19.08	23	-3.92
10	55290	3555	256QAM	1	0	15.76	16.76	23	-6.24
				1	49	15.84	16.84	23	-6.16
				25	12	15.82	16.82	23	-6.18
				50	0	15.86	16.86	23	-6.14
	55990	3625	256QAM	1	0	16.25	17.25	23	-5.75
				1	49	16.21	17.21	23	-5.79
				25	12	16.18	17.18	23	-5.82
				50	0	16.24	17.24	23	-5.76
	56690	3695	256QAM	1	0	16.02	17.02	23	-5.98
				1	49	16.10	17.10	23	-5.9
				25	12	16.11	17.11	23	-5.89
				50	0	16.17	17.17	23	-5.83

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Antenna gain (dBi)		LTE Band 48_Uplink frequency band : 3550 to 3700 MHz							
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MH)	EIRP Average (dBm/10MH)	EIRP Limit (dBm/10MH)	Margin (dBm/10MHz)
10	55290	3555	QPSK	1	0	20.82	21.82	23	-1.18
				1	49	20.74	21.74	23	-1.26
				25	12	19.78	20.78	23	-2.22
				50	0	19.75	20.75	23	-2.25
	55990	3625	QPSK	1	0	21.21	22.21	23	-0.79
				1	49	21.20	22.20	23	-0.8
				25	12	20.15	21.15	23	-1.85
				50	0	20.18	21.18	23	-1.82
	56690	3695	QPSK	1	0	21.15	22.15	23	-0.85
				1	49	21.04	22.04	23	-0.96
				25	12	20.08	21.08	23	-1.92
				50	0	20.09	21.09	23	-1.91
10	55290	3555	16QAM	1	0	19.93	20.93	23	-2.07
				1	49	20.01	21.01	23	-1.99
				25	12	18.79	19.79	23	-3.21
				50	0	18.79	19.79	23	-3.21
	55990	3625	16QAM	1	0	20.37	21.37	23	-1.63
				1	49	20.35	21.35	23	-1.65
				25	12	19.21	20.21	23	-2.79
				50	0	19.21	20.21	23	-2.79
	56690	3695	16QAM	1	0	20.20	21.20	23	-1.8
				1	49	20.31	21.31	23	-1.69
				25	12	19.12	20.12	23	-2.88
				50	0	19.12	20.12	23	-2.88
10	55290	3555	64QAM	1	0	18.67	19.67	23	-3.33
				1	49	18.76	19.76	23	-3.24
				25	12	17.72	18.72	23	-4.28
				50	0	17.77	18.77	23	-4.23
	55990	3625	64QAM	1	0	19.10	20.10	23	-2.9
				1	49	19.09	20.09	23	-2.91
				25	12	18.14	19.14	23	-3.86
				50	0	18.19	19.19	23	-3.81
	56690	3695	64QAM	1	0	18.98	19.98	23	-3.02
				1	49	19.07	20.07	23	-2.93
				25	12	18.05	19.05	23	-3.95
				50	0	18.08	19.08	23	-3.92
10	55290	3555	256QAM	1	0	15.76	16.76	23	-6.24
				1	49	15.84	16.84	23	-6.16
				25	12	15.82	16.82	23	-6.18
				50	0	15.86	16.86	23	-6.14
	55990	3625	256QAM	1	0	16.25	17.25	23	-5.75
				1	49	16.21	17.21	23	-5.79
				25	12	16.18	17.18	23	-5.82
				50	0	16.24	17.24	23	-5.76
	56690	3695	256QAM	1	0	16.02	17.02	23	-5.98
				1	49	16.10	17.10	23	-5.9
				25	12	16.11	17.11	23	-5.89
				50	0	16.17	17.17	23	-5.83

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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Antenna gain (dBi)		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	20.85	21.85	23	-1.15
				1	74	20.66	21.66	23	-1.34
				36	18	19.76	20.76	23	-2.24
				75	0	19.79	20.79	23	-2.21
	55990	3625	QPSK	1	0	21.16	22.16	23	-0.84
				1	74	21.10	22.10	23	-0.9
				36	18	20.18	21.18	23	-1.82
				75	0	20.15	21.15	23	-1.85
	56665	3692.5	QPSK	1	0	21.06	22.06	23	-0.94
				1	74	20.85	21.85	23	-1.15
				36	18	20.01	21.01	23	-1.99
				75	0	19.99	20.99	23	-2.01
15	55315	3557.5	16QAM	1	0	19.86	20.86	23	-2.14
				1	74	20.02	21.02	23	-1.98
				36	18	18.65	19.65	23	-3.35
				75	0	18.75	19.75	23	-3.25
	55990	3625	16QAM	1	0	20.23	21.23	23	-1.77
				1	74	20.15	21.15	23	-1.85
				36	18	19.13	20.13	23	-2.87
				75	0	19.09	20.09	23	-2.91
	56665	3692.5	16QAM	1	0	20.27	21.27	23	-1.73
				1	74	20.08	21.08	23	-1.92
				36	18	18.97	19.97	23	-3.03
				75	0	18.97	19.97	23	-3.03
15	55315	3557.5	64QAM	1	0	18.61	19.61	23	-3.39
				1	74	18.76	19.76	23	-3.24
				36	18	17.70	18.70	23	-4.3
				75	0	17.76	18.76	23	-4.24
	55990	3625	64QAM	1	0	19.04	20.04	23	-2.96
				1	74	19.03	20.03	23	-2.97
				36	18	18.12	19.12	23	-3.88
				75	0	18.10	19.10	23	-3.9
	56665	3692.5	64QAM	1	0	18.80	19.80	23	-3.2
				1	74	19.00	20.00	23	-3
				36	18	17.99	18.99	23	-4.01
				75	0	18.01	19.01	23	-3.99
15	55315	3557.5	256QAM	1	0	15.70	16.70	23	-6.3
				1	74	15.86	16.86	23	-6.14
				36	18	15.81	16.81	23	-6.19
				75	0	15.80	16.80	23	-6.2
	55990	3625	256QAM	1	0	16.21	17.21	23	-5.79
				1	74	16.13	17.13	23	-5.87
				36	18	16.15	17.15	23	-5.85
				75	0	16.18	17.18	23	-5.82
	56665	3692.5	256QAM	1	0	15.90	16.90	23	-6.1
				1	74	16.13	17.13	23	-5.87
				36	18	16.06	17.06	23	-5.94
				75	0	16.11	17.11	23	-5.89

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Antenna gain (dBi)		LTE Band 48_Uplink frequency band : 3550 to 3700 MHz							
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MH)	EIRP Average (dBm/10MH)	EIRP Limit (dBm/10MH)	Margin (dBm/10MHz)
15	55315	3557.5	QPSK	1	0	19.09	20.09	23	-2.91
				1	74	18.90	19.90	23	-3.1
				36	18	18.00	19.00	23	-4
				75	0	18.03	19.03	23	-3.97
	55990	3625	QPSK	1	0	19.40	20.40	23	-2.6
				1	74	19.34	20.34	23	-2.66
				36	18	18.42	19.42	23	-3.58
				75	0	18.39	19.39	23	-3.61
	56665	3692.5	QPSK	1	0	19.30	20.30	23	-2.7
				1	74	19.09	20.09	23	-2.91
				36	18	18.25	19.25	23	-3.75
				75	0	18.23	19.23	23	-3.77
15	55315	3557.5	16QAM	1	0	18.10	19.10	23	-3.9
				1	74	18.26	19.26	23	-3.74
				36	18	16.89	17.89	23	-5.11
				75	0	16.99	17.99	23	-5.01
	55990	3625	16QAM	1	0	18.47	19.47	23	-3.53
				1	74	18.39	19.39	23	-3.61
				36	18	17.37	18.37	23	-4.63
				75	0	17.33	18.33	23	-4.67
	56665	3692.5	16QAM	1	0	18.51	19.51	23	-3.49
				1	74	18.32	19.32	23	-3.68
				36	18	17.21	18.21	23	-4.79
				75	0	17.21	18.21	23	-4.79
15	55315	3557.5	64QAM	1	0	16.85	17.85	23	-5.15
				1	74	17.00	18.00	23	-5
				36	18	15.94	16.94	23	-6.06
				75	0	16.00	17.00	23	-6
	55990	3625	64QAM	1	0	17.28	18.28	23	-4.72
				1	74	17.27	18.27	23	-4.73
				36	18	16.36	17.36	23	-5.64
				75	0	16.34	17.34	23	-5.66
	56665	3692.5	64QAM	1	0	17.04	18.04	23	-4.96
				1	74	17.24	18.24	23	-4.76
				36	18	16.23	17.23	23	-5.77
				75	0	16.25	17.25	23	-5.75
15	55315	3557.5	256QAM	1	0	13.94	14.94	23	-8.06
				1	74	14.10	15.10	23	-7.9
				36	18	14.05	15.05	23	-7.95
				75	0	14.04	15.04	23	-7.96
	55990	3625	256QAM	1	0	14.45	15.45	23	-7.55
				1	74	14.37	15.37	23	-7.63
				36	18	14.39	15.39	23	-7.61
				75	0	14.42	15.42	23	-7.58
	56665	3692.5	256QAM	1	0	14.14	15.14	23	-7.86
				1	74	14.37	15.37	23	-7.63
				36	18	14.30	15.30	23	-7.7
				75	0	14.35	15.35	23	-7.65

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Antenna gain (dBi)		LTE Band 48_Uplink frequency band : 3550 to 3700 MHz							
BW (Hz)	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	20.90	21.90	23	-1.1
				1	99	20.63	21.63	23	-1.37
				50	25	19.78	20.78	23	-2.22
				100	0	19.80	20.80	23	-2.2
	55990	3625	QPSK	1	0	21.13	22.13	23	-0.87
				1	99	21.04	22.04	23	-0.96
				50	25	20.18	21.18	23	-1.82
				100	0	20.10	21.10	23	-1.9
	56640	3690	QPSK	1	0	21.03	22.03	23	-0.97
				1	99	20.80	21.80	23	-1.2
				50	25	20.03	21.03	23	-1.97
				100	0	20.02	21.02	23	-1.98
20	55340	3560	16QAM	1	0	19.81	20.81	23	-2.19
				1	99	20.06	21.06	23	-1.94
				50	25	18.84	19.84	23	-3.16
				100	0	18.77	19.77	23	-3.23
	55990	3625	16QAM	1	0	20.27	21.27	23	-1.73
				1	99	20.08	21.08	23	-1.92
				50	25	19.18	20.18	23	-2.82
				100	0	19.15	20.15	23	-2.85
	56640	3690	16QAM	1	0	19.97	20.97	23	-2.03
				1	99	20.23	21.23	23	-1.77
				50	25	19.01	20.01	23	-2.99
				100	0	19.00	20.00	23	-3
20	55340	3560	64QAM	1	0	18.55	19.55	23	-3.45
				1	99	18.78	19.78	23	-3.22
				50	25	17.84	18.84	23	-4.16
				100	0	17.78	18.78	23	-4.22
	55990	3625	64QAM	1	0	19.02	20.02	23	-2.98
				1	99	18.96	19.96	23	-3.04
				50	25	18.20	19.20	23	-3.8
				100	0	18.08	19.08	23	-3.92
	56640	3690	64QAM	1	0	18.71	19.71	23	-3.29
				1	99	18.97	19.97	23	-3.03
				50	25	18.06	19.06	23	-3.94
				100	0	17.98	18.98	23	-4.02
20	55340	3560	256QAM	1	0	15.65	16.65	23	-6.35
				1	99	15.89	16.89	23	-6.11
				50	25	15.90	16.90	23	-6.1
				100	0	15.83	16.83	23	-6.17
	55990	3625	256QAM	1	0	16.25	17.25	23	-5.75
				1	99	16.09	17.09	23	-5.91
				50	25	16.07	17.07	23	-5.93
				100	0	16.17	17.17	23	-5.83
	56640	3690	256QAM	1	0	15.79	16.79	23	-6.21
				1	99	16.06	17.06	23	-5.94
				50	25	16.10	17.10	23	-5.9
				100	0	16.07	17.07	23	-5.93

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Antenna gain (dBi)		LTE Band 48_Uplink frequency band : 3550 to 3700 MHz							
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MH)	EIRP Average (dBm/10MH)	EIRP Limit (dBm/10MH)	Margin (dBm/10MHz)
20	55340	3560	QPSK	1	0	17.89	18.89	23	-4.11
				1	99	17.62	18.62	23	-4.38
				50	25	16.77	17.77	23	-5.23
				100	0	16.79	17.79	23	-5.21
	55990	3625	QPSK	1	0	18.12	19.12	23	-3.88
				1	99	18.03	19.03	23	-3.97
				50	25	17.17	18.17	23	-4.83
				100	0	17.09	18.09	23	-4.91
	56640	3690	QPSK	1	0	18.02	19.02	23	-3.98
				1	99	17.79	18.79	23	-4.21
				50	25	17.02	18.02	23	-4.98
				100	0	17.01	18.01	23	-4.99
20	55340	3560	16QAM	1	0	16.80	17.80	23	-5.2
				1	99	17.05	18.05	23	-4.95
				50	25	15.83	16.83	23	-6.17
				100	0	15.76	16.76	23	-6.24
	55990	3625	16QAM	1	0	17.26	18.26	23	-4.74
				1	99	17.07	18.07	23	-4.93
				50	25	16.17	17.17	23	-5.83
				100	0	16.14	17.14	23	-5.86
	56640	3690	16QAM	1	0	16.96	17.96	23	-5.04
				1	99	17.22	18.22	23	-4.78
				50	25	16.00	17.00	23	-6
				100	0	15.99	16.99	23	-6.01
20	55340	3560	64QAM	1	0	15.54	16.54	23	-6.46
				1	99	15.77	16.77	23	-6.23
				50	25	14.83	15.83	23	-7.17
				100	0	14.77	15.77	23	-7.23
	55990	3625	64QAM	1	0	16.01	17.01	23	-5.99
				1	99	15.95	16.95	23	-6.05
				50	25	15.19	16.19	23	-6.81
				100	0	15.07	16.07	23	-6.93
	56640	3690	64QAM	1	0	15.70	16.70	23	-6.3
				1	99	15.96	16.96	23	-6.04
				50	25	15.05	16.05	23	-6.95
				100	0	14.97	15.97	23	-7.03
20	55340	3560	256QAM	1	0	12.64	13.64	23	-9.36
				1	99	12.88	13.88	23	-9.12
				50	25	12.89	13.89	23	-9.11
				100	0	12.82	13.82	23	-9.18
	55990	3625	256QAM	1	0	13.24	14.24	23	-8.76
				1	99	13.08	14.08	23	-8.92
				50	25	13.06	14.06	23	-8.94
				100	0	13.16	14.16	23	-8.84
	56640	3690	256QAM	1	0	12.78	13.78	23	-9.22
				1	99	13.05	14.05	23	-8.95
				50	25	13.09	14.09	23	-8.91
				100	0	13.06	14.06	23	-8.94

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Mode: ULCA

Part 96_EIRP Limit (dBm)	23
Antenna Gain	1

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			
	55273	3553.3	55390	3565.0		1	24	1	0	17.14	20.16	20.17	21.17	0.131	
5MHz+ 20MHz	55898	3615.8	56015	3627.5	QPSK	25	0	100	0	15.48	15.85	18.41	19.41	0.087	
						1	24	1	0	17.64	20.61	20.61	21.61	0.145	
	56523	3678.3	56640	3690.0	QPSK	25	0	100	0	15.85	16.13	18.71	19.71	0.094	
						1	24	1	0	17.27	20.27	20.28	21.28	0.134	
	5MHz+ 20MHz	55273	3553.3	55390	3565.0	16QAM	25	0	100	0	15.58	15.97	18.51	19.51	0.089
						1	24	1	0	16.12	19.15	19.15	20.15	0.104	
		55898	3615.8	56015	3627.5	16QAM	25	0	100	0	14.48	14.75	17.38	18.38	0.069
						1	24	1	0	16.57	19.60	19.61	20.61	0.115	
		56523	3678.3	56640	3690.0	16QAM	25	0	100	0	14.93	15.07	17.77	18.77	0.075
						1	24	1	0	16.31	19.33	19.33	20.33	0.108	
5MHz+ 20MHz	55273	3553.3	55390	3565.0	64QAM	25	0	100	0	14.58	14.89	17.51	18.51	0.071	
						1	24	1	0	13.78	16.99	17.00	18.00	0.063	
	55898	3615.8	56015	3627.5	64QAM	25	0	100	0	14.43	14.77	17.36	18.36	0.069	
						1	24	1	0	14.24	17.44	17.45	18.45	0.070	
	56523	3678.3	56640	3690.0	64QAM	25	0	100	0	14.89	15.06	17.74	18.74	0.075	
						1	24	1	0	13.96	17.15	17.16	18.16	0.065	
5MHz+ 20MHz	55273	3553.3	55390	3565.0	256QAM	25	0	100	0	14.52	14.91	17.48	18.48	0.070	
						1	24	1	0	12.00	15.11	15.11	16.11	0.041	
	55898	3615.8	56015	3627.5	256QAM	25	0	100	0	12.54	12.82	15.44	16.44	0.044	
						1	24	1	0	12.42	15.52	15.52	16.52	0.045	
	56523	3678.3	56640	3690.0	256QAM	25	0	100	0	12.96	13.10	15.78	16.78	0.048	
						1	24	1	0	12.13	15.23	15.23	16.23	0.042	
						25	0	100	0	12.59	12.91	15.50	16.50	0.045	

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Part 96_EIRP Limit (dBm/10MHz)	23
Antenna Gain	1

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

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Average (W/10MHz)	
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset				
5MHz+20MHz	55273	3553.3	55390	3565.0	QPSK	1	24	1	0	16.20	17.20	0.052	
						25	0	100	0	14.44	15.44	0.035	
	55898	3615.8	56015	3627.5		1	24	1	0	16.64	17.64	0.058	
						25	0	100	0	14.74	15.74	0.037	
5MHz+20MHz	56523	3678.3	56640	3690.0	QPSK	1	24	1	0	16.31	17.31	0.054	
						25	0	100	0	14.54	15.54	0.036	
	55273	3553.3	55390	3565.0		1	24	1	0	15.18	16.18	0.041	
						25	0	100	0	13.41	14.41	0.028	
5MHz+20MHz	55898	3615.8	56015	3627.5	16QAM	1	24	1	0	15.64	16.64	0.046	
						25	0	100	0	13.80	14.80	0.030	
	56523	3678.3	56640	3690.0		1	24	1	0	15.36	16.36	0.043	
						25	0	100	0	13.54	14.54	0.028	
5MHz+20MHz	55273	3553.3	55390	3565.0	64QAM	1	24	1	0	13.03	14.03	0.025	
						25	0	100	0	13.39	14.39	0.027	
	55898	3615.8	56015	3627.5		1	24	1	0	13.48	14.48	0.028	
						25	0	100	0	13.77	14.77	0.030	
5MHz+20MHz	56523	3678.3	56640	3690.0	64QAM	1	24	1	0	13.19	14.19	0.026	
						25	0	100	0	13.51	14.51	0.028	
	55273	3553.3	55390	3565.0		1	24	1	0	11.14	12.14	0.016	
						25	0	100	0	11.47	12.47	0.018	
5MHz+20MHz	55898	3615.8	56015	3627.5	256QAM	1	24	1	0	11.55	12.55	0.018	
						25	0	100	0	11.81	12.81	0.019	
	56523	3678.3	56640	3690.0		1	24	1	0	11.26	12.26	0.017	
						25	0	100	0	11.53	12.53	0.018	

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Part 96_EIRP Limit (dBm)	23
Antenna Gain	1

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

Bandwidth	PCC		SCC1		Modulation	PCC		SCC1		Conducted			EIRP	EIRP	
	Earfcn	MHz	Earfcn	MHz		RB	Size	Offset	RB	Size	Offset	Average (dBm)	Total		
20MHz+5MHz	55340	3560.0	55457	3571.7	QPSK	1	99	1	0	20.18	17.15	20.18	21.18	0.131	
						100	0	25	0	15.98	15.17	18.36	19.36	0.086	
	55965	3622.5	56082	3634.2		1	99	1	0	20.36	17.19	20.36	21.36	0.137	
						100	0	25	0	16.36	15.43	18.69	19.69	0.093	
	56590	3685.0	56707	3696.7		1	99	1	0	20.24	17.21	20.24	21.24	0.133	
						100	0	25	0	16.03	15.50	18.52	19.52	0.090	
20MHz+5MHz	55340	3560.0	55457	3571.7	16QAM	1	99	1	0	19.16	16.13	19.17	20.17	0.104	
						100	0	25	0	15.06	14.23	17.42	18.42	0.070	
	55965	3622.5	56082	3634.2		1	99	1	0	19.38	16.35	19.39	20.39	0.109	
						100	0	25	0	15.33	14.39	17.66	18.66	0.073	
	56590	3685.0	56707	3696.7		1	99	1	0	19.25	16.20	19.25	20.25	0.106	
						100	0	25	0	15.11	14.31	17.53	18.53	0.071	
20MHz+5MHz	55340	3560.0	55457	3571.7	64QAM	1	99	1	0	17.00	14.12	17.01	18.01	0.063	
						100	0	25	0	15.03	14.21	17.41	18.41	0.069	
	55965	3622.5	56082	3634.2		1	99	1	0	17.19	14.30	17.19	18.19	0.066	
						100	0	25	0	15.44	14.26	17.65	18.65	0.073	
	56590	3685.0	56707	3696.7		1	99	1	0	17.11	14.23	17.11	18.11	0.065	
						100	0	25	0	15.26	14.18	17.50	18.50	0.071	
20MHz+5MHz	55340	3560.0	55457	3571.7	256QAM	1	99	1	0	15.09	12.12	15.10	16.10	0.041	
						100	0	25	0	13.03	12.21	15.40	16.40	0.044	
	55965	3622.5	56082	3634.2		1	99	1	0	15.28	12.32	15.29	16.29	0.043	
						100	0	25	0	13.41	12.48	15.74	16.74	0.047	
	56590	3685.0	56707	3696.7		1	99	1	0	15.20	12.23	15.21	16.21	0.042	
						100	0	25	0	13.17	12.37	15.55	16.55	0.045	

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Part 96_EIRP Limit (dBm/10MHz)	23
Antenna Gain	1

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

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted	EIRP Average (dBm/10MHz)	EIRP Average (W/10MHz)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset			
20MHz+5MHz	55340	3560.0	55457	3571.7	QPSK	1	99	1	0	16.21	17.21	0.053
						100	0	25	0	14.39	15.39	0.035
	55965	3622.5	56082	3634.2	QPSK	1	99	1	0	16.39	17.39	0.055
						100	0	25	0	14.72	15.72	0.037
	56590	3685.0	56707	3696.7	QPSK	1	99	1	0	16.27	17.27	0.053
						100	0	25	0	14.55	15.55	0.036
20MHz+5MHz	55340	3560.0	55457	3571.7	16QAM	1	99	1	0	15.20	16.20	0.042
						100	0	25	0	13.45	14.45	0.028
	55965	3622.5	56082	3634.2	16QAM	1	99	1	0	15.42	16.42	0.044
						100	0	25	0	13.69	14.69	0.029
	56590	3685.0	56707	3696.7	16QAM	1	99	1	0	15.28	16.28	0.042
						100	0	25	0	13.56	14.56	0.029
20MHz+5MHz	55340	3560.0	55457	3571.7	64QAM	1	99	1	0	13.04	14.04	0.025
						100	0	25	0	13.44	14.44	0.028
	55965	3622.5	56082	3634.2	64QAM	1	99	1	0	13.22	14.22	0.026
						100	0	25	0	13.68	14.68	0.029
	56590	3685.0	56707	3696.7	64QAM	1	99	1	0	13.14	14.14	0.026
						100	0	25	0	13.53	14.53	0.028
20MHz+5MHz	55340	3560.0	55457	3571.7	256QAM	1	99	1	0	11.13	12.13	0.016
						100	0	25	0	11.43	12.43	0.017
	55965	3622.5	56082	3634.2	256QAM	1	99	1	0	11.32	12.32	0.017
						100	0	25	0	11.77	12.77	0.019
	56590	3685.0	56707	3696.7	256QAM	1	99	1	0	11.24	12.24	0.017
						100	0	25	0	11.58	12.58	0.018

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Part 96_EIRP Limit (dBm)	23
Antenna Gain	1

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	17.14	19.02	20.18	21.18	0.131	
						50	0	100	0	15.54	15.38	18.44	19.44	0.088	
	55896	3615.6	56040	3630.0		1	49	1	0	17.52	19.40	20.53	21.53	0.142	
						50	0	100	0	15.86	15.53	18.67	19.67	0.093	
	56496	3675.6	56640	3690.0		1	49	1	0	17.29	19.14	20.30	21.30	0.135	
						50	0	100	0	15.55	15.44	18.49	19.49	0.089	
10MHz+20MHz	55295	3555.5	55439	3569.9	16QAM	1	49	1	0	16.15	18.26	19.18	20.18	0.104	
						50	0	100	0	14.54	14.35	17.44	18.44	0.070	
	55896	3615.6	56040	3630.0		1	49	1	0	16.62	18.65	19.59	20.59	0.115	
						50	0	100	0	14.96	14.48	17.72	18.72	0.074	
	56496	3675.6	56640	3690.0		1	49	1	0	16.28	18.40	19.31	20.31	0.107	
						50	0	100	0	14.61	14.43	17.50	18.50	0.071	
10MHz+20MHz	55295	3555.5	55439	3569.9	64QAM	1	49	1	0	13.81	16.17	17.01	18.01	0.063	
						50	0	100	0	14.56	14.35	17.45	18.45	0.070	
	55896	3615.6	56040	3630.0		1	49	1	0	14.23	16.56	17.41	18.41	0.069	
						50	0	100	0	14.95	14.54	17.75	18.75	0.075	
	56496	3675.6	56640	3690.0		1	49	1	0	13.94	16.29	17.13	18.13	0.065	
						50	0	100	0	14.62	14.46	17.53	18.53	0.071	
10MHz+20MHz	55295	3555.5	55439	3569.9	256QAM	1	49	1	0	12.01	14.15	15.10	16.10	0.041	
						50	0	100	0	12.58	12.36	15.46	16.46	0.044	
	55896	3615.6	56040	3630.0		1	49	1	0	12.41	14.53	15.49	16.49	0.045	
						50	0	100	0	13.01	12.58	15.79	16.79	0.048	
	56496	3675.6	56640	3690.0		1	49	1	0	12.19	14.32	15.29	16.29	0.043	
						50	0	100	0	12.64	12.45	15.54	16.54	0.045	

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Part 96_EIRP Limit (dBm/10MHz)	23
Antenna Gain	1

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

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Average (W/10MHz)	
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset				
10MHz+20MHz	55295	3555.5	55439	3569.9	QPSK	1	49	1	0	15.41	16.41	0.044	
						50	0	100	0	13.67	14.67	0.029	
	55896	3615.6	56040	3630.0		1	49	1	0	15.76	16.76	0.047	
						50	0	100	0	13.90	14.90	0.031	
10MHz+20MHz	56496	3675.6	56640	3690.0	QPSK	1	49	1	0	15.53	16.53	0.045	
						50	0	100	0	13.72	14.72	0.030	
	55295	3555.5	55439	3569.9		1	49	1	0	14.41	15.41	0.035	
						50	0	100	0	12.67	13.67	0.023	
10MHz+20MHz	55896	3615.6	56040	3630.0	16QAM	1	49	1	0	14.82	15.82	0.038	
						50	0	100	0	12.95	13.95	0.025	
	56496	3675.6	56640	3690.0		1	49	1	0	14.54	15.54	0.036	
						50	0	100	0	12.73	13.73	0.024	
10MHz+20MHz	55295	3555.5	55439	3569.9	64QAM	1	49	1	0	12.24	13.24	0.021	
						50	0	100	0	12.68	13.68	0.023	
	55896	3615.6	56040	3630.0		1	49	1	0	12.64	13.64	0.023	
						50	0	100	0	12.98	13.98	0.025	
10MHz+20MHz	56496	3675.6	56640	3690.0	64QAM	1	49	1	0	12.36	13.36	0.022	
						50	0	100	0	12.76	13.76	0.024	
	55295	3555.5	55439	3569.9	256QAM	1	49	1	0	10.33	11.33	0.014	
						50	0	100	0	10.69	11.69	0.015	
10MHz+20MHz	55896	3615.6	56040	3630.0		1	49	1	0	10.72	11.72	0.015	
						50	0	100	0	11.02	12.02	0.016	
	56496	3675.6	56640	3690.0		1	49	1	0	10.52	11.52	0.014	
						50	0	100	0	10.77	11.77	0.015	

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Part 96_EIRP Limit (dBm)	23
Antenna Gain	1

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	19.16	17.07	20.12	21.12	0.129	
						100	0	50	0	15.65	15.20	18.42	19.42	0.087	
	55941	3620.1	56085	3634.5		1	99	1	0	19.44	17.16	20.35	21.35	0.136	
						100	0	50	0	15.96	15.38	18.67	19.67	0.093	
20MHz+10MHz	56541	3680.1	56685	3694.5		1	99	1	0	19.32	17.24	20.29	21.29	0.135	
						100	0	50	0	15.67	15.31	18.48	19.48	0.089	
	55340	3560.0	55484	3574.4	16QAM	1	99	1	0	18.24	16.14	19.19	20.19	0.104	
						100	0	50	0	14.62	14.20	17.41	18.41	0.069	
20MHz+10MHz	55941	3620.1	56085	3634.5		1	99	1	0	18.45	16.36	19.42	20.42	0.110	
						100	0	50	0	15.10	14.21	17.65	18.65	0.073	
	56541	3680.1	56685	3694.5		1	99	1	0	18.40	16.10	19.29	20.29	0.107	
						100	0	50	0	14.91	14.12	17.51	18.51	0.071	
20MHz+10MHz	55340	3560.0	55484	3574.4	64QAM	1	99	1	0	16.03	14.15	17.06	18.06	0.064	
						100	0	50	0	14.64	14.20	17.40	18.40	0.069	
	55941	3620.1	56085	3634.5		1	99	1	0	16.23	14.36	17.26	18.26	0.067	
						100	0	50	0	15.06	14.21	17.64	18.64	0.073	
20MHz+10MHz	56541	3680.1	56685	3694.5		1	99	1	0	16.08	14.20	17.10	18.10	0.065	
						100	0	50	0	14.70	14.32	17.50	18.50	0.071	
	55340	3560.0	55484	3574.4	256QAM	1	99	1	0	14.15	12.14	15.13	16.13	0.041	
						100	0	50	0	12.69	12.24	15.43	16.43	0.044	
20MHz+10MHz	55941	3620.1	56085	3634.5		1	99	1	0	14.34	12.33	15.32	16.32	0.043	
						100	0	50	0	13.00	12.42	15.72	16.72	0.047	
	56541	3680.1	56685	3694.5		1	99	1	0	14.21	12.21	15.20	16.20	0.042	
						100	0	50	0	12.71	12.31	15.50	16.50	0.045	

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Part 96_EIRP Limit (dBm/10MHz)	23
Antenna Gain	1

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

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Average (W/10MHz)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset			
20MHz+10MHz	55340	3560.0	55484	3574.4	QPSK	1	99	1	0	15.35	16.35	0.043
						100	0	50	0	13.65	14.65	0.029
	55941	3620.1	56085	3634.5	QPSK	1	99	1	0	15.58	16.58	0.045
						100	0	50	0	13.90	14.90	0.031
20MHz+10MHz	56541	3680.1	56685	3694.5	QPSK	1	99	1	0	15.52	16.52	0.045
						100	0	50	0	13.71	14.71	0.030
	55340	3560.0	55484	3574.4	16QAM	1	99	1	0	14.42	15.42	0.035
						100	0	50	0	12.64	13.64	0.023
20MHz+10MHz	55941	3620.1	56085	3634.5	16QAM	1	99	1	0	14.65	15.65	0.037
						100	0	50	0	12.88	13.88	0.024
	56541	3680.1	56685	3694.5	16QAM	1	99	1	0	14.52	15.52	0.036
						100	0	50	0	12.74	13.74	0.024
20MHz+10MHz	55340	3560.0	55484	3574.4	64QAM	1	99	1	0	12.29	13.29	0.021
						100	0	50	0	12.63	13.63	0.023
	55941	3620.1	56085	3634.5	64QAM	1	99	1	0	12.49	13.49	0.022
						100	0	50	0	12.87	13.87	0.024
20MHz+10MHz	56541	3680.1	56685	3694.5	64QAM	1	99	1	0	12.33	13.33	0.022
						100	0	50	0	12.73	13.73	0.024
	55340	3560.0	55484	3574.4	256QAM	1	99	1	0	10.36	11.36	0.014
						100	0	50	0	10.66	11.66	0.015
20MHz+10MHz	55941	3620.1	56085	3634.5	256QAM	1	99	1	0	10.55	11.55	0.014
						100	0	50	0	10.95	11.95	0.016
	56541	3680.1	56685	3694.5	256QAM	1	99	1	0	10.43	11.43	0.014
						100	0	50	0	10.73	11.73	0.015

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Part 96_EIRP Limit (dBm)	23
Antenna Gain	1

OUTPUT POWER FOR LTE BAND 48 (15MHz + 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			
15MHz+20MHz	55318	3557.8	55489	3574.9	QPSK	1	74	1	0	17.38	17.20	20.31	21.31	0.135	
						75	0	100	0	15.58	15.22	18.41	19.41	0.087	
	55893	3615.3	56064	3632.4		1	74	1	0	17.69	17.59	20.65	21.65	0.146	
						75	0	100	0	15.98	15.46	18.73	19.73	0.094	
15MHz+20MHz	56469	3672.9	56640	3690.0	QPSK	1	74	1	0	17.49	17.30	20.41	21.41	0.138	
						75	0	100	0	15.56	15.43	18.49	19.49	0.089	
	55318	3557.8	55489	3574.9		1	74	1	0	16.40	16.22	19.31	20.31	0.107	
						75	0	100	0	14.52	14.22	17.41	18.41	0.069	
15MHz+20MHz	55893	3615.3	56064	3632.4	16QAM	1	74	1	0	16.81	16.50	19.65	20.65	0.116	
						75	0	100	0	14.96	14.39	17.68	18.68	0.074	
	56469	3672.9	56640	3690.0		1	74	1	0	16.49	16.28	19.42	20.42	0.110	
						75	0	100	0	14.62	14.38	17.51	18.51	0.071	
15MHz+20MHz	55318	3557.8	55489	3574.9	64QAM	1	74	1	0	14.05	14.20	17.11	18.11	0.065	
						75	0	100	0	14.53	14.22	17.39	18.39	0.069	
	55893	3615.3	56064	3632.4		1	74	1	0	14.37	14.48	17.43	18.43	0.070	
						75	0	100	0	14.99	14.40	17.72	18.72	0.074	
15MHz+20MHz	56469	3672.9	56640	3690.0		1	74	1	0	14.15	14.30	17.25	18.25	0.067	
						75	0	100	0	14.60	14.42	17.51	18.51	0.071	
	55318	3557.8	55489	3574.9	256QAM	1	74	1	0	12.24	12.20	15.23	16.23	0.042	
						75	0	100	0	12.55	12.21	15.48	16.48	0.044	
15MHz+20MHz	55893	3615.3	56064	3632.4		1	74	1	0	12.55	12.49	15.53	16.53	0.045	
						75	0	100	0	13.01	12.45	15.75	16.75	0.047	
	56469	3672.9	56640	3690.0		1	74	1	0	12.36	12.31	15.35	16.35	0.043	
						75	0	100	0	12.65	12.37	15.53	16.53	0.045	

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Part 96_EIRP Limit (dBm/10MHz)	23
Antenna Gain	1

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

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Average (W/10MHz)	
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset				
15MHz+20MHz	55318	3557.8	55489	3574.9	QPSK	1	74	1	0	14.87	15.87	0.039	
						75	0	100	0	12.97	13.97	0.025	
	55893	3615.3	56064	3632.4		1	74	1	0	15.21	16.21	0.042	
						75	0	100	0	13.29	14.29	0.027	
15MHz+20MHz	56469	3672.9	56640	3690.0	QPSK	1	74	1	0	14.97	15.97	0.040	
						75	0	100	0	13.05	14.05	0.025	
	55318	3557.8	55489	3574.9		1	74	1	0	13.87	14.87	0.031	
						75	0	100	0	11.97	12.97	0.020	
15MHz+20MHz	55893	3615.3	56064	3632.4	16QAM	1	74	1	0	14.21	15.21	0.033	
						75	0	100	0	12.24	13.24	0.021	
	56469	3672.9	56640	3690.0		1	74	1	0	13.98	14.98	0.031	
						75	0	100	0	12.07	13.07	0.020	
15MHz+20MHz	55318	3557.8	55489	3574.9	64QAM	1	74	1	0	11.67	12.67	0.018	
						75	0	100	0	11.95	12.95	0.020	
	55893	3615.3	56064	3632.4		1	74	1	0	11.99	12.99	0.020	
						75	0	100	0	12.28	13.28	0.021	
15MHz+20MHz	56469	3672.9	56640	3690.0	64QAM	1	74	1	0	11.81	12.81	0.019	
						75	0	100	0	12.07	13.07	0.020	
	55318	3557.8	55489	3574.9	256QAM	1	74	1	0	9.79	10.79	0.012	
						75	0	100	0	10.04	11.04	0.013	
15MHz+20MHz	55893	3615.3	56064	3632.4		1	74	1	0	10.09	11.09	0.013	
						75	0	100	0	10.31	11.31	0.014	
	56469	3672.9	56640	3690.0		1	74	1	0	9.91	10.91	0.012	
						75	0	100	0	10.09	11.09	0.013	

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Part 96_EIRP Limit (dBm)	23
Antenna Gain	1

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	17.24	17.37	20.32	21.32	0.136	
						100	0	75	0	15.54	15.23	18.44	19.44	0.088	
	55916	3617.6	56087	3634.7		1	99	1	0	17.46	17.66	20.55	21.55	0.143	
						100	0	75	0	15.84	15.36	18.62	19.62	0.092	
20MHz+15MHz	56491	3675.1	56662	3692.2	QPSK	1	99	1	0	17.34	17.45	20.39	21.39	0.138	
						100	0	75	0	15.59	15.34	18.48	19.48	0.089	
	55340	3560.0	55511	3577.1		1	99	1	0	16.27	16.36	19.35	20.35	0.108	
						100	0	75	0	14.65	14.29	17.49	18.49	0.071	
20MHz+15MHz	55916	3617.6	56087	3634.7	16QAM	1	99	1	0	16.50	16.59	19.55	20.55	0.114	
						100	0	75	0	14.92	14.39	17.68	18.68	0.074	
	56491	3675.1	56662	3692.2		1	99	1	0	16.33	16.45	19.41	20.41	0.110	
						100	0	75	0	14.63	14.36	17.52	18.52	0.071	
20MHz+15MHz	55340	3560.0	55511	3577.1	64QAM	1	99	1	0	13.91	14.34	17.14	18.14	0.065	
						100	0	75	0	14.70	14.26	17.48	18.48	0.070	
	55916	3617.6	56087	3634.7		1	99	1	0	14.15	14.57	17.36	18.36	0.069	
						100	0	75	0	14.99	14.26	17.68	18.68	0.074	
20MHz+15MHz	56491	3675.1	56662	3692.2		1	99	1	0	13.98	14.42	17.22	18.22	0.066	
						100	0	75	0	14.65	14.25	17.45	18.45	0.070	
	55340	3560.0	55511	3577.1	256QAM	1	99	1	0	12.15	12.39	15.28	16.28	0.042	
						100	0	75	0	12.60	12.27	15.45	16.45	0.044	
20MHz+15MHz	55916	3617.6	56087	3634.7		1	99	1	0	12.35	12.57	15.46	16.46	0.044	
						100	0	75	0	12.95	12.43	15.71	16.71	0.047	
	56491	3675.1	56662	3692.2		1	99	1	0	12.22	12.48	15.37	16.37	0.043	
						100	0	75	0	12.60	12.33	15.48	16.48	0.044	

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Part 96_EIRP Limit (dBm/10MHz)	23
Antenna Gain	1

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

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Average (W/10MHz)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset			
20MHz+15MHz	55340	3560.0	55511	3577.1	QPSK	1	99	1	0	14.88	15.88	0.039
						100	0	75	0	13.00	14.00	0.025
	55916	3617.6	56087	3634.7	QPSK	1	99	1	0	15.11	16.11	0.041
						100	0	75	0	13.18	14.18	0.026
20MHz+15MHz	56491	3675.1	56662	3692.2	QPSK	1	99	1	0	14.95	15.95	0.039
						100	0	75	0	13.04	14.04	0.025
	55340	3560.0	55511	3577.1	16QAM	1	99	1	0	13.91	14.91	0.031
						100	0	75	0	12.05	13.05	0.020
20MHz+15MHz	55916	3617.6	56087	3634.7	16QAM	1	99	1	0	14.11	15.11	0.032
						100	0	75	0	12.24	13.24	0.021
	56491	3675.1	56662	3692.2	16QAM	1	99	1	0	13.97	14.97	0.031
						100	0	75	0	12.08	13.08	0.020
20MHz+15MHz	55340	3560.0	55511	3577.1	64QAM	1	99	1	0	11.70	12.70	0.019
						100	0	75	0	12.04	13.04	0.020
	55916	3617.6	56087	3634.7	64QAM	1	99	1	0	11.92	12.92	0.020
						100	0	75	0	12.24	13.24	0.021
20MHz+15MHz	56491	3675.1	56662	3692.2	64QAM	1	99	1	0	11.78	12.78	0.019
						100	0	75	0	12.01	13.01	0.020
	55340	3560.0	55511	3577.1	256QAM	1	99	1	0	9.84	10.84	0.012
						100	0	75	0	10.01	11.01	0.013
20MHz+15MHz	55916	3617.6	56087	3634.7	256QAM	1	99	1	0	10.02	11.02	0.013
						100	0	75	0	10.27	11.27	0.013
	56491	3675.1	56662	3692.2	256QAM	1	99	1	0	9.93	10.93	0.012
						100	0	75	0	10.04	11.04	0.013

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Part 96_EIRP Limit (dBm)	23
Antenna Gain	1

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	17.24	17.20	20.23	21.23	0.133	
						100	0	100	0	15.53	15.31	18.42	19.42	0.087	
	55891	3615.1	56089	3634.9		1	99	1	0	17.52	17.44	20.50	21.50	0.141	
						100	0	100	0	15.92	15.36	18.66	19.66	0.092	
20MHz+20MHz	56442	3670.2	56640	3690.0		1	99	1	0	17.25	17.26	20.27	21.27	0.134	
						100	0	100	0	15.59	15.33	18.48	19.48	0.089	
	55340	3560.0	55538	3579.8	16QAM	1	99	1	0	16.26	16.22	19.25	20.25	0.106	
						100	0	100	0	14.58	14.23	17.41	18.41	0.069	
20MHz+20MHz	55891	3615.1	56089	3634.9		1	99	1	0	16.55	16.46	19.52	20.52	0.113	
						100	0	100	0	14.95	14.26	17.63	18.63	0.073	
	56442	3670.2	56640	3690.0		1	99	1	0	16.32	16.25	19.30	20.30	0.107	
						100	0	100	0	14.53	14.26	17.42	18.42	0.070	
20MHz+20MHz	55340	3560.0	55538	3579.8	64QAM	1	99	1	0	13.92	14.20	17.08	18.08	0.064	
						100	0	100	0	14.50	14.26	17.40	18.40	0.069	
	55891	3615.1	56089	3634.9		1	99	1	0	14.17	14.43	17.32	18.32	0.068	
						100	0	100	0	14.88	14.33	17.62	18.62	0.073	
20MHz+20MHz	56442	3670.2	56640	3690.0		1	99	1	0	13.91	14.18	17.06	18.06	0.064	
						100	0	100	0	14.52	14.26	17.41	18.41	0.069	
	55340	3560.0	55538	3579.8	256QAM	1	99	1	0	12.17	12.21	15.17	16.17	0.041	
						100	0	100	0	12.56	12.24	15.42	16.42	0.044	
20MHz+20MHz	55891	3615.1	56089	3634.9		1	99	1	0	12.42	12.48	15.46	16.46	0.044	
						100	0	100	0	12.89	12.31	15.63	16.63	0.046	
	56442	3670.2	56640	3690.0		1	99	1	0	12.13	12.24	15.20	16.20	0.042	
						100	0	100	0	12.57	12.31	15.45	16.45	0.044	

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Part 96_EIRP Limit (dBm/10MHz)	23
Antenna Gain	1

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

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Average (W/10MHz)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset			
20MHz+20MHz	55340	3560.0	55538	3579.8	QPSK	1	99	1	0	14.21	15.21	0.033
						100	0	100	0	12.40	13.40	0.022
	55891	3615.1	56089	3634.9	QPSK	1	99	1	0	14.48	15.48	0.035
						100	0	100	0	12.64	13.64	0.023
20MHz+20MHz	56442	3670.2	56640	3690.0	QPSK	1	99	1	0	14.25	15.25	0.033
						100	0	100	0	12.46	13.46	0.022
	55340	3560.0	55538	3579.8	16QAM	1	99	1	0	13.23	14.23	0.026
						100	0	100	0	11.39	12.39	0.017
20MHz+20MHz	55891	3615.1	56089	3634.9	16QAM	1	99	1	0	13.50	14.50	0.028
						100	0	100	0	11.61	12.61	0.018
	56442	3670.2	56640	3690.0	16QAM	1	99	1	0	13.28	14.28	0.027
						100	0	100	0	11.40	12.40	0.017
20MHz+20MHz	55340	3560.0	55538	3579.8	64QAM	1	99	1	0	11.06	12.06	0.016
						100	0	100	0	11.38	12.38	0.017
	55891	3615.1	56089	3634.9	64QAM	1	99	1	0	11.30	12.30	0.017
						100	0	100	0	11.60	12.60	0.018
20MHz+20MHz	56442	3670.2	56640	3690.0	64QAM	1	99	1	0	11.04	12.04	0.016
						100	0	100	0	11.39	12.39	0.017
	55340	3560.0	55538	3579.8	256QAM	1	99	1	0	9.15	10.15	0.010
						100	0	100	0	9.40	10.40	0.011
20MHz+20MHz	55891	3615.1	56089	3634.9	256QAM	1	99	1	0	9.44	10.44	0.011
						100	0	100	0	9.61	10.61	0.012
	56442	3670.2	56640	3690.0	256QAM	1	99	1	0	9.18	10.18	0.010
						100	0	100	0	9.43	10.43	0.011

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Mode: NR

5G NR Band n48_part96 : 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)			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	641668	646332	637000	641668	646332	
					3555	3625.02	3694.98	3555	3625.02	3694.98	
10	15	DFT-s PI/2 BPSK	1	1	21.10	21.00	20.38	22.10	22.00	21.38	
			1	50	20.82	20.89	20.54	21.82	21.89	21.54	
			25	12	20.66	20.82	20.47	21.66	21.82	21.47	
			50	0	20.21	20.34	20.00	21.21	21.34	21.00	
		DFT-s QPSK	1	1	20.89	20.96	20.56	21.89	21.96	21.56	
			1	50	20.57	20.94	20.71	21.57	21.94	21.71	
			25	12	20.68	20.88	20.54	21.68	21.88	21.54	
			50	0	19.68	19.91	19.50	20.68	20.91	20.50	
		DFT-s 16QAM	1	1	19.82	19.97	19.35	20.82	20.97	20.35	
		DFT-s 64QAM	1	1	18.19	18.34	17.81	19.19	19.34	18.81	
		DFT-s 256QAM	1	1	15.98	16.24	15.92	16.98	17.24	16.92	
		CP QPSK	1	1	19.14	19.72	18.80	20.14	20.72	19.80	
		CP 16QAM	1	1	18.04	18.55	18.85	19.04	19.55	19.85	
		CP 64QAM	1	1	17.07	17.27	16.50	18.07	18.27	17.50	
		CP 256QAM	1	1	13.74	14.45	14.33	14.74	15.45	15.33	
5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)			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	641668	646332	637000	641668	646332	
					3555	3625.02	3694.98	3555	3625.02	3694.98	
10	30	DFT-s PI/2 BPSK	1	1	21.19	20.72	20.97	22.19	21.72	21.97	
			1	22	20.52	20.64	20.66	21.52	21.64	21.66	
			12	6	20.41	20.43	20.64	21.41	21.43	21.64	
			24	0	20.17	20.20	20.09	21.17	21.20	21.09	
		DFT-s QPSK	1	1	20.19	20.84	20.39	21.19	21.84	21.39	
			1	22	20.79	20.66	20.40	21.79	21.66	21.40	
			12	6	20.71	20.64	20.56	21.71	21.64	21.56	
			24	0	19.78	19.79	19.54	20.78	20.79	20.54	
		DFT-s 16QAM	1	1	19.42	19.12	19.82	20.42	20.12	20.82	
		DFT-s 64QAM	1	1	17.90	17.63	17.92	18.90	18.63	18.92	
		DFT-s 256QAM	1	1	16.08	15.92	16.10	17.08	16.92	17.10	
		CP QPSK	1	1	19.06	19.20	18.91	20.06	20.20	19.91	
		CP 16QAM	1	1	18.63	18.93	18.75	19.63	19.93	19.75	
		CP 64QAM	1	1	16.96	17.33	16.64	17.96	18.33	17.64	
		CP 256QAM	1	1	13.90	14.24	13.89	14.90	15.24	14.89	

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5G NR Band n48_part96 : 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)			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	641668	646166	637168	641668	646166	
15	15	DFT-s PI/2 BPSK	1	1	21.20	21.25	20.57	22.20	22.25	21.57	
			1	77	20.73	21.01	20.83	21.73	22.01	21.83	
			36	18	20.92	20.99	20.55	21.92	21.99	21.55	
			75	0	20.45	20.47	20.07	21.45	21.47	21.07	
		DFT-s QPSK	1	1	21.17	21.18	20.42	22.17	22.18	21.42	
			1	77	20.69	21.08	20.58	21.69	22.08	21.58	
			36	18	20.98	21.09	20.62	21.98	22.09	21.62	
			75	0	19.93	19.99	19.61	20.93	20.99	20.61	
		DFT-s 16QAM	1	1	20.00	20.04	19.77	21.00	21.04	20.77	
		DFT-s 64QAM	1	1	18.02	18.71	18.13	19.02	19.71	19.13	
		DFT-s 256QAM	1	1	16.30	16.26	16.02	17.30	17.26	17.02	
		CP QPSK	1	1	19.72	19.99	18.77	20.72	20.99	19.77	
		CP 16QAM	1	1	19.40	19.25	18.39	20.40	20.25	19.39	
		CP 64QAM	1	1	17.13	17.76	17.07	18.13	18.76	18.07	
		CP 256QAM	1	1	14.76	14.50	13.40	15.76	15.50	14.40	
5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)			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	641668	646166	637168	641668	646166	
15	30	DFT-s PI/2 BPSK	1	1	20.90	20.41	20.16	21.90	21.41	21.16	
			1	36	20.53	20.71	20.28	21.53	21.71	21.28	
			18	9	20.75	20.45	20.46	21.75	21.45	21.46	
			36	0	20.24	20.23	19.97	21.24	21.23	20.97	
		DFT-s QPSK	1	1	20.42	20.86	20.12	21.42	21.86	21.12	
			1	36	20.78	20.83	20.34	21.78	21.83	21.34	
			18	9	20.81	20.80	20.51	21.81	21.80	21.51	
			36	0	19.87	19.81	19.49	20.87	20.81	20.49	
		DFT-s 16QAM	1	1	19.31	19.72	19.01	20.31	20.72	20.01	
		DFT-s 64QAM	1	1	17.90	18.41	17.66	18.90	19.41	18.66	
		DFT-s 256QAM	1	1	16.08	16.63	15.64	17.08	17.63	16.64	
		CP QPSK	1	1	18.93	18.99	19.07	19.93	19.99	20.07	
		CP 16QAM	1	1	19.09	18.25	18.32	20.09	19.25	19.32	
		CP 64QAM	1	1	17.27	16.91	17.13	18.27	17.91	18.13	
		CP 256QAM	1	1	13.85	14.54	14.11	14.85	15.54	15.11	

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5G NR Band n48_part96 : 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)			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	641668	646000	637334	641668	646000	
20	15	DFT-s PI/2 BPSK	1	1	21.27	21.12	20.61	22.27	22.12	21.61	
			1	104	21.03	20.88	20.55	22.03	21.88	21.55	
			50	25	20.95	21.00	20.54	21.95	22.00	21.54	
			100	0	20.47	20.46	20.02	21.47	21.46	21.02	
		DFT-s QPSK	1	1	20.63	20.99	20.30	21.63	21.99	21.30	
			1	104	20.41	20.75	20.89	21.41	21.75	21.89	
			50	25	21.04	21.08	20.63	22.04	22.08	21.63	
			100	0	19.93	20.00	19.55	20.93	21.00	20.55	
		DFT-s 16QAM	1	1	19.63	19.96	19.30	20.63	20.96	20.30	
		DFT-s 64QAM	1	1	18.08	18.48	17.57	19.08	19.48	18.57	
		DFT-s 256QAM	1	1	16.37	16.42	15.92	17.37	17.42	16.92	
		CP QPSK	1	1	19.11	19.66	18.82	20.11	20.66	19.82	
		CP 16QAM	1	1	18.57	19.22	18.32	19.57	20.22	19.32	
		CP 64QAM	1	1	17.13	17.18	16.45	18.13	18.18	17.45	
		CP 256QAM	1	1	13.83	14.54	13.92	14.83	15.54	14.92	
5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)			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	641668	646000	637334	641668	646000	
20	30	DFT-s PI/2 BPSK	1	1	20.37	20.81	20.88	21.37	21.81	21.88	
			1	49	20.82	20.54	20.35	21.82	21.54	21.35	
			25	12	20.82	20.82	20.51	21.82	21.82	21.51	
			50	0	20.30	20.34	19.98	21.30	21.34	20.98	
		DFT-s QPSK	1	1	20.86	20.84	20.57	21.86	21.84	21.57	
			1	49	20.40	20.58	20.36	21.40	21.58	21.36	
			25	12	20.84	20.82	20.46	21.84	21.82	21.46	
			50	0	19.91	19.84	19.49	20.91	20.84	20.49	
		DFT-s 16QAM	1	1	19.83	20.05	18.98	20.83	21.05	19.98	
		DFT-s 64QAM	1	1	17.96	18.26	17.96	18.96	19.26	18.96	
		DFT-s 256QAM	1	1	16.17	16.45	15.73	17.17	17.45	16.73	
		CP QPSK	1	1	18.93	19.22	18.67	19.93	20.22	19.67	
		CP 16QAM	1	1	18.53	18.42	17.63	19.53	19.42	18.63	
		CP 64QAM	1	1	16.85	17.44	16.61	17.85	18.44	17.61	
		CP 256QAM	1	1	14.16	14.31	14.36	15.16	15.31	15.36	

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5G NR Band n48_part96 : 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)			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	641668	645666	637668	641668	645666	
30	15	DFT-s PI/2 BPSK	1	1	21.26	20.56	20.46	22.26	21.56	21.46	
			1	158	20.51	20.24	20.40	21.51	21.24	21.40	
			80	40	21.13	20.52	20.38	22.13	21.52	21.38	
			160	0	20.50	20.14	19.95	21.50	21.14	20.95	
		DFT-s QPSK	1	1	21.22	20.43	20.35	22.22	21.43	21.35	
			1	158	20.52	20.40	20.28	21.52	21.40	21.28	
			80	40	21.10	20.73	20.34	22.10	21.73	21.34	
			160	0	19.93	19.79	19.33	20.93	20.79	20.33	
		DFT-s 16QAM	1	1	19.05	19.83	18.62	20.05	20.83	19.62	
		DFT-s 64QAM	1	1	18.02	17.87	17.32	19.02	18.87	18.32	
		DFT-s 256QAM	1	1	15.93	16.02	15.12	16.93	17.02	16.12	
		CP QPSK	1	1	18.61	19.12	18.51	19.61	20.12	19.51	
		CP 16QAM	1	1	17.89	18.72	17.76	18.89	19.72	18.76	
		CP 64QAM	1	1	16.89	17.08	16.62	17.89	18.08	17.62	
		CP 256QAM	1	1	13.68	14.61	13.53	14.68	15.61	14.53	
5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)			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	641668	645666	637668	641668	645666	
30	30	DFT-s PI/2 BPSK	1	1	21.08	21.05	21.15	22.08	22.05	22.15	
			1	76	20.22	20.74	20.50	21.22	21.74	21.50	
			36	18	20.77	21.14	20.53	21.77	22.14	21.53	
			75	0	20.03	20.58	20.00	21.03	21.58	21.00	
		DFT-s QPSK	1	1	20.49	21.14	20.03	21.49	22.14	21.03	
			1	76	21.10	20.81	20.45	22.10	21.81	21.45	
			36	18	21.11	20.55	20.46	22.11	21.55	21.46	
			75	0	20.04	20.10	20.11	21.04	21.10	21.11	
		DFT-s 16QAM	1	1	19.55	19.84	19.15	20.55	20.84	20.15	
		DFT-s 64QAM	1	1	17.97	17.58	17.26	18.97	18.58	18.26	
		DFT-s 256QAM	1	1	15.94	15.67	15.35	16.94	16.67	16.35	
		CP QPSK	1	1	18.94	18.91	18.36	19.94	19.91	19.36	
		CP 16QAM	1	1	18.28	18.64	18.65	19.28	19.64	19.65	
		CP 64QAM	1	1	16.75	16.62	16.63	17.75	17.62	17.63	
		CP 256QAM	1	1	14.18	14.45	14.55	15.18	15.45	15.55	

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5G NR Band n48_part96 : 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)			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	
40	15	DFT-s PI/2 BPSK	1	1	21.26	20.74	20.01	22.26	21.74	21.01	
			1	214	20.29	20.23	20.44	21.29	21.23	21.44	
			108	54	20.98	20.90	20.50	21.98	21.90	21.50	
			216	0	20.56	20.29	19.92	21.56	21.29	20.92	
		DFT-s QPSK	1	1	21.22	20.74	20.06	22.22	21.74	21.06	
			1	214	20.20	20.28	20.49	21.20	21.28	21.49	
			108	54	20.82	20.97	20.56	21.82	21.97	21.56	
			216	0	20.09	19.78	19.46	21.09	20.78	20.46	
		DFT-s 16QAM	1	1	19.00	19.76	18.86	20.00	20.76	19.86	
		DFT-s 64QAM	1	1	17.90	18.19	17.48	18.90	19.19	18.48	
		DFT-s 256QAM	1	1	15.65	16.02	15.57	16.65	17.02	16.57	
		CP QPSK	1	1	18.84	19.21	18.48	19.84	20.21	19.48	
		CP 16QAM	1	1	17.91	18.82	17.85	18.91	19.82	18.85	
		CP 64QAM	1	1	16.71	17.12	16.19	17.71	18.12	17.19	
		CP 256QAM	1	1	13.70	14.11	13.58	14.70	15.11	14.58	
5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)			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	641668	645332	638000	641668	645332	
40	30	DFT-s PI/2 BPSK	1	1	20.97	19.97	19.81	21.97	20.97	20.81	
			1	104	20.78	19.86	19.37	21.78	20.86	20.37	
			50	25	20.92	19.44	19.64	21.92	20.44	20.64	
			100	0	20.36	18.51	18.44	21.36	19.51	19.44	
		DFT-s QPSK	1	1	20.95	19.58	19.37	21.95	20.58	20.37	
			1	104	20.78	20.10	19.98	21.78	21.10	20.98	
			50	25	20.78	19.17	19.02	21.78	20.17	20.02	
			100	0	19.79	19.71	19.52	20.79	20.71	20.52	
		DFT-s 16QAM	1	1	19.32	19.46	19.27	20.32	20.46	20.27	
		DFT-s 64QAM	1	1	17.55	17.02	16.99	18.55	18.02	17.99	
		DFT-s 256QAM	1	1	15.50	15.62	15.00	16.50	16.62	16.00	
		CP QPSK	1	1	17.19	17.08	16.82	18.19	18.08	17.82	
		CP 16QAM	1	1	17.43	16.51	16.57	18.43	17.51	17.57	
		CP 64QAM	1	1	16.77	15.94	15.18	17.77	16.94	16.18	
		CP 256QAM	1	1	13.68	13.74	13.68	14.68	14.74	14.68	

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5G NR Band n48_part96 : 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)			
Antenna Gain(dBi)			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	641668	646332	637000	641668	646332	
10	15	DFT-s PI/2 BPSK	1	1	21.10	21.00	20.38	22.10	22.00	21.38	
			1	50	20.82	20.89	20.54	21.82	21.89	21.54	
			25	12	20.66	20.82	20.47	21.66	21.82	21.47	
			50	0	20.21	20.34	20.00	21.21	21.34	21.00	
		DFT-s QPSK	1	1	20.89	20.96	20.56	21.89	21.96	21.56	
			1	50	20.57	20.94	20.71	21.57	21.94	21.71	
			25	12	20.68	20.88	20.54	21.68	21.88	21.54	
			50	0	19.68	19.91	19.50	20.68	20.91	20.50	
		DFT-s 16QAM	1	1	19.82	19.97	19.35	20.82	20.97	20.35	
		DFT-s 64QAM	1	1	18.19	18.34	17.81	19.19	19.34	18.81	
		DFT-s 256QAM	1	1	15.98	16.24	15.92	16.98	17.24	16.92	
		CP QPSK	1	1	19.14	19.72	18.80	20.14	20.72	19.80	
		CP 16QAM	1	1	18.04	18.55	18.85	19.04	19.55	19.85	
		CP 64QAM	1	1	17.07	17.27	16.50	18.07	18.27	17.50	
		CP 256QAM	1	1	13.74	14.45	14.33	14.74	15.45	15.33	
5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)			
Antenna Gain(dBi)			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	641668	646332	637000	641668	646332	
10	30	DFT-s PI/2 BPSK	1	1	21.19	20.72	20.97	22.19	21.72	21.97	
			1	22	20.52	20.64	20.66	21.52	21.64	21.66	
			12	6	20.41	20.43	20.64	21.41	21.43	21.64	
			24	0	20.17	20.20	20.09	21.17	21.20	21.09	
		DFT-s QPSK	1	1	20.19	20.84	20.39	21.19	21.84	21.39	
			1	22	20.79	20.66	20.40	21.79	21.66	21.40	
			12	6	20.71	20.64	20.56	21.71	21.64	21.56	
			24	0	19.78	19.79	19.54	20.78	20.79	20.54	
		DFT-s 16QAM	1	1	19.42	19.12	19.82	20.42	20.12	20.82	
		DFT-s 64QAM	1	1	17.90	17.63	17.92	18.90	18.63	18.92	
		DFT-s 256QAM	1	1	16.08	15.92	16.10	17.08	16.92	17.10	
		CP QPSK	1	1	19.06	19.20	18.91	20.06	20.20	19.91	
		CP 16QAM	1	1	18.63	18.93	18.75	19.63	19.93	19.75	
		CP 64QAM	1	1	16.96	17.33	16.64	17.96	18.33	17.64	
		CP 256QAM	1	1	13.90	14.24	13.89	14.90	15.24	14.89	

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5G NR Band n48_part96 : 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)			
Antenna Gain(dBi)			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	641668	646166	637168	641668	646166	
15	15	DFT-s PI/2 BPSK	1	1	19.44	19.49	18.81	20.44	20.49	19.81	
			1	77	18.97	19.25	19.07	19.97	20.25	20.07	
			36	18	19.16	19.23	18.79	20.16	20.23	19.79	
			75	0	18.69	18.71	18.31	19.69	19.71	19.31	
		DFT-s QPSK	1	1	19.41	19.42	18.66	20.41	20.42	19.66	
			1	77	18.93	19.32	18.82	19.93	20.32	19.82	
			36	18	19.22	19.33	18.86	20.22	20.33	19.86	
			75	0	18.17	18.23	17.85	19.17	19.23	18.85	
		DFT-s 16QAM	1	1	18.24	18.28	18.01	19.24	19.28	19.01	
		DFT-s 64QAM	1	1	16.26	16.95	16.37	17.26	17.95	17.37	
		DFT-s 256QAM	1	1	14.54	14.50	14.26	15.54	15.50	15.26	
		CP QPSK	1	1	17.96	18.23	17.01	18.96	19.23	18.01	
		CP 16QAM	1	1	17.64	17.49	16.63	18.64	18.49	17.63	
		CP 64QAM	1	1	15.37	16.00	15.31	16.37	17.00	16.31	
		CP 256QAM	1	1	13.00	12.74	11.64	14.00	13.74	12.64	
5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)			
Antenna Gain(dBi)			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	641668	646166	637168	641668	646166	
15	30	DFT-s PI/2 BPSK	1	1	19.14	18.65	18.40	20.14	19.65	19.40	
			1	36	18.77	18.95	18.52	19.77	19.95	19.52	
			18	9	18.99	18.69	18.70	19.99	19.69	19.70	
			36	0	18.48	18.47	18.21	19.48	19.47	19.21	
		DFT-s QPSK	1	1	18.66	19.10	18.36	19.66	20.10	19.36	
			1	36	19.02	19.07	18.58	20.02	20.07	19.58	
			18	9	19.05	19.04	18.75	20.05	20.04	19.75	
			36	0	18.11	18.05	17.73	19.11	19.05	18.73	
		DFT-s 16QAM	1	1	17.55	17.96	17.25	18.55	18.96	18.25	
		DFT-s 64QAM	1	1	16.14	16.65	15.90	17.14	17.65	16.90	
		DFT-s 256QAM	1	1	14.32	14.87	13.88	15.32	15.87	14.88	
		CP QPSK	1	1	17.17	17.23	17.31	18.17	18.23	18.31	
		CP 16QAM	1	1	17.33	16.49	16.56	18.33	17.49	17.56	
		CP 64QAM	1	1	15.51	15.15	15.37	16.51	16.15	16.37	
		CP 256QAM	1	1	12.09	12.78	12.35	13.09	13.78	13.35	

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5G NR Band n48_part96 : 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)			
Antenna Gain(dBi)			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	641668	646000	637334	641668	646000	
			1	1	18.26	18.11	17.60	19.26	19.11	18.60	
20	15	DFT-s PI/2 BPSK	1	104	18.02	17.87	17.54	19.02	18.87	18.54	
			50	25	17.94	17.99	17.53	18.94	18.99	18.53	
			100	0	17.46	17.45	17.01	18.46	18.45	18.01	
			1	1	17.62	17.98	17.29	18.62	18.98	18.29	
		DFT-s QPSK	1	104	17.40	17.74	17.88	18.40	18.74	18.88	
			50	25	18.03	18.07	17.62	19.03	19.07	18.62	
			100	0	16.92	16.99	16.54	17.92	17.99	17.54	
		DFT-s 16QAM	1	1	16.62	16.95	16.29	17.62	17.95	17.29	
		DFT-s 64QAM	1	1	15.07	15.47	14.56	16.07	16.47	15.56	
		DFT-s 256QAM	1	1	13.36	13.41	12.91	14.36	14.41	13.91	
		CP QPSK	1	1	16.10	16.65	15.81	17.10	17.65	16.81	
		CP 16QAM	1	1	15.56	16.21	15.31	16.56	17.21	16.31	
		CP 64QAM	1	1	14.12	14.17	13.44	15.12	15.17	14.44	
		CP 256QAM	1	1	10.82	11.53	10.91	11.82	12.53	11.91	
5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)			
Antenna Gain(dBi)			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	641668	646000	637334	641668	646000	
			1	1	17.36	17.80	17.87	18.36	18.80	18.87	
20	30	DFT-s PI/2 BPSK	1	49	17.81	17.53	17.34	18.81	18.53	18.34	
			25	12	17.81	17.81	17.50	18.81	18.81	18.50	
			50	0	17.29	17.33	16.97	18.29	18.33	17.97	
		DFT-s QPSK	1	1	17.85	17.83	17.56	18.85	18.83	18.56	
			1	49	17.39	17.57	17.35	18.39	18.57	18.35	
			25	12	17.83	17.81	17.45	18.83	18.81	18.45	
			50	0	16.90	16.83	16.48	17.90	17.83	17.48	
		DFT-s 16QAM	1	1	16.82	17.04	15.97	17.82	18.04	16.97	
		DFT-s 64QAM	1	1	14.95	15.25	14.95	15.95	16.25	15.95	
		DFT-s 256QAM	1	1	13.16	13.44	12.72	14.16	14.44	13.72	
		CP QPSK	1	1	15.92	16.21	15.66	16.92	17.21	16.66	
		CP 16QAM	1	1	15.52	15.41	14.62	16.52	16.41	15.62	
		CP 64QAM	1	1	13.84	14.43	13.60	14.84	15.43	14.60	
		CP 256QAM	1	1	11.15	11.30	11.35	12.15	12.30	12.35	

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5G NR Band n48_part96 : 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)			
Antenna Gain(dBi)			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	641668	645666	637668	641668	645666	
30	15	DFT-s PI/2 BPSK	1	1	16.49	15.79	15.69	17.49	16.79	16.69	
			1	158	15.74	15.47	15.63	16.74	16.47	16.63	
			80	40	16.36	15.75	15.61	17.36	16.75	16.61	
			160	0	15.73	15.37	15.18	16.73	16.37	16.18	
		DFT-s QPSK	1	1	16.45	15.66	15.58	17.45	16.66	16.58	
			1	158	15.75	15.63	15.51	16.75	16.63	16.51	
			80	40	16.33	15.96	15.57	17.33	16.96	16.57	
			160	0	15.16	15.02	14.56	16.16	16.02	15.56	
		DFT-s 16QAM	1	1	14.28	15.06	13.85	15.28	16.06	14.85	
		DFT-s 64QAM	1	1	13.25	13.10	12.55	14.25	14.10	13.55	
		DFT-s 256QAM	1	1	11.16	11.25	10.35	12.16	12.25	11.35	
		CP QPSK	1	1	13.84	14.35	13.74	14.84	15.35	14.74	
		CP 16QAM	1	1	13.12	13.95	12.99	14.12	14.95	13.99	
		CP 64QAM	1	1	12.12	12.31	11.85	13.12	13.31	12.85	
		CP 256QAM	1	1	8.91	9.84	8.76	9.91	10.84	9.76	
5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)			
Antenna Gain(dBi)			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	641668	645666	637668	641668	645666	
30	30	DFT-s PI/2 BPSK	1	1	16.31	16.28	16.38	17.31	17.28	17.38	
			1	76	15.45	15.97	15.73	16.45	16.97	16.73	
			36	18	16.00	16.37	15.76	17.00	17.37	16.76	
			75	0	15.26	15.81	15.23	16.26	16.81	16.23	
		DFT-s QPSK	1	1	15.72	16.37	15.26	16.72	17.37	16.26	
			1	76	16.33	16.04	15.68	17.33	17.04	16.68	
			36	18	16.34	15.78	15.69	17.34	16.78	16.69	
			75	0	15.27	15.33	15.34	16.27	16.33	16.34	
		DFT-s 16QAM	1	1	14.78	15.07	14.38	15.78	16.07	15.38	
		DFT-s 64QAM	1	1	13.20	12.81	12.49	14.20	13.81	13.49	
		DFT-s 256QAM	1	1	11.17	10.90	10.58	12.17	11.90	11.58	
		CP QPSK	1	1	14.17	14.14	13.59	15.17	15.14	14.59	
		CP 16QAM	1	1	13.51	13.87	13.88	14.51	14.87	14.88	
		CP 64QAM	1	1	11.98	11.85	11.86	12.98	12.85	12.86	
		CP 256QAM	1	1	9.41	9.68	9.78	10.41	10.68	10.78	

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5G NR Band n48_part96 : 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)			
Antenna Gain(dBi)			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	
40	15	DFT-s PI/2 BPSK	1	1	15.24	14.72	13.99	16.24	15.72	14.99	
			1	214	14.27	14.21	14.42	15.27	15.21	15.42	
			108	54	14.96	14.88	14.48	15.96	15.88	15.48	
			216	0	14.54	14.27	13.90	15.54	15.27	14.90	
		DFT-s QPSK	1	1	15.20	14.72	14.04	16.20	15.72	15.04	
			1	214	14.18	14.26	14.47	15.18	15.26	15.47	
			108	54	14.80	14.95	14.54	15.80	15.95	15.54	
			216	0	14.07	13.76	13.44	15.07	14.76	14.44	
		DFT-s 16QAM	1	1	12.98	13.74	12.84	13.98	14.74	13.84	
		DFT-s 64QAM	1	1	11.88	12.17	11.46	12.88	13.17	12.46	
		DFT-s 256QAM	1	1	9.63	10.00	9.55	10.63	11.00	10.55	
		CP QPSK	1	1	12.82	13.19	12.46	13.82	14.19	13.46	
		CP 16QAM	1	1	11.89	12.80	11.83	12.89	13.80	12.83	
		CP 64QAM	1	1	10.69	11.10	10.17	11.69	12.10	11.17	
		CP 256QAM	1	1	7.68	8.09	7.56	8.68	9.09	8.56	
5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)			
Antenna Gain(dBi)			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	641668	645332	638000	641668	645332	
40	30	DFT-s PI/2 BPSK	1	1	14.95	13.95	13.79	15.95	14.95	14.79	
			1	104	14.76	13.84	13.35	15.76	14.84	14.35	
			50	25	14.90	13.42	13.62	15.90	14.42	14.62	
			100	0	14.34	12.49	12.42	15.34	13.49	13.42	
		DFT-s QPSK	1	1	14.93	13.56	13.35	15.93	14.56	14.35	
			1	104	14.76	14.08	13.96	15.76	15.08	14.96	
			50	25	14.76	13.15	13.00	15.76	14.15	14.00	
			100	0	13.77	13.69	13.50	14.77	14.69	14.50	
		DFT-s 16QAM	1	1	13.30	13.44	13.25	14.30	14.44	14.25	
		DFT-s 64QAM	1	1	11.53	11.00	10.97	12.53	12.00	11.97	
		DFT-s 256QAM	1	1	9.48	9.60	8.98	10.48	10.60	9.98	
		CP QPSK	1	1	11.17	11.06	10.80	12.17	12.06	11.80	
		CP 16QAM	1	1	11.41	10.49	10.55	12.41	11.49	11.55	
		CP 64QAM	1	1	10.75	9.92	9.16	11.75	10.92	10.16	
		CP 256QAM	1	1	7.66	7.72	7.66	8.66	8.72	8.66	

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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 ¹	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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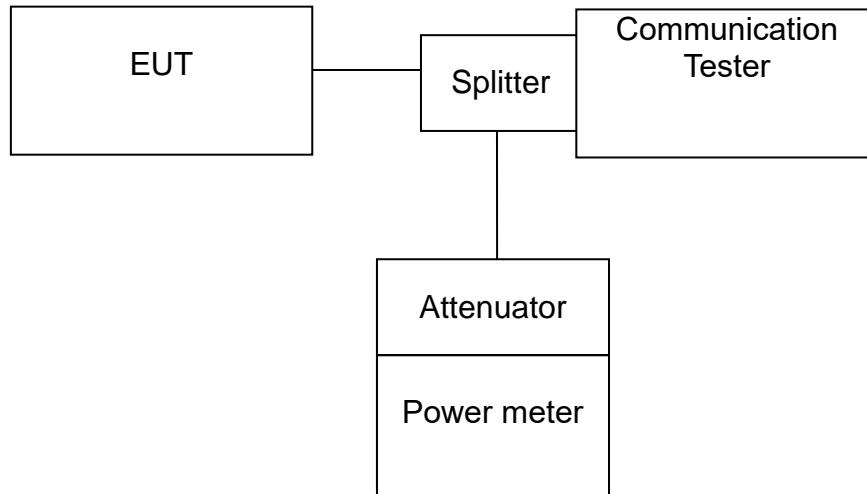
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8.2 Test Set-up



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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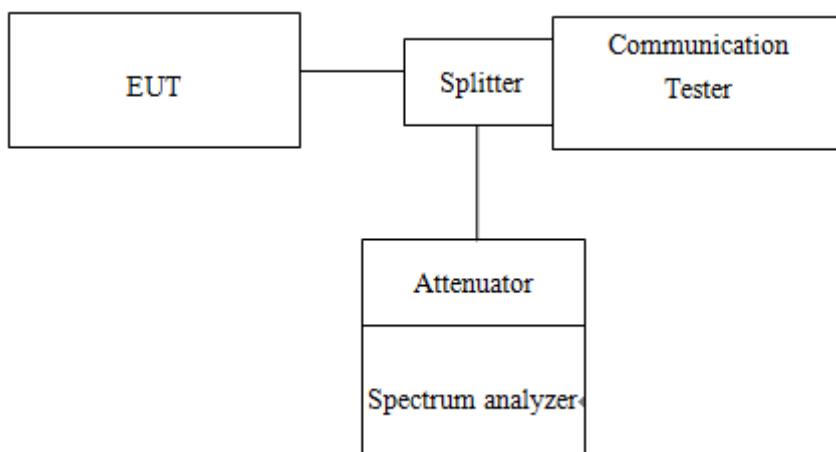
9 OCCUPIED BANDWIDTH MEASUREMENT

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% ~ 5%, 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	4.4828	4.4824	4.4912	4.4636	4.931	4.873	4.891	4.867
3625.0	55990	4.4553	4.4847	4.4482	4.4657	4.784	4.746	4.703	4.962
3697.5	56715	4.4933	4.4688	4.4589	4.4499	4.713	4.763	4.687	4.722

		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	8.9666	8.9482	8.9694	8.9534	9.690	9.840	9.729	9.548
3625.0	55990	8.8934	8.9870	8.9512	8.9278	9.422	9.415	9.394	9.436
3695.0	56690	8.9018	8.9258	8.9308	8.9333	9.440	9.367	9.392	9.431

		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	13.4410	13.4380	13.4420	13.4240	15.310	14.930	14.560	14.310
3625.0	55990	13.4400	13.3720	13.3410	13.3370	14.110	14.020	14.190	13.960
3692.5	56665	13.3480	13.4220	13.4730	13.4050	13.880	13.980	14.200	14.160

		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	17.8940	17.8790	17.8740	17.8710	20.080	19.320	19.780	19.070
3625.0	55990	17.8250	17.8980	17.8750	17.7970	21.460	18.920	18.620	19.460
3690.0	56640	17.9050	17.7220	17.8390	17.7270	19.070	18.780	19.180	18.640

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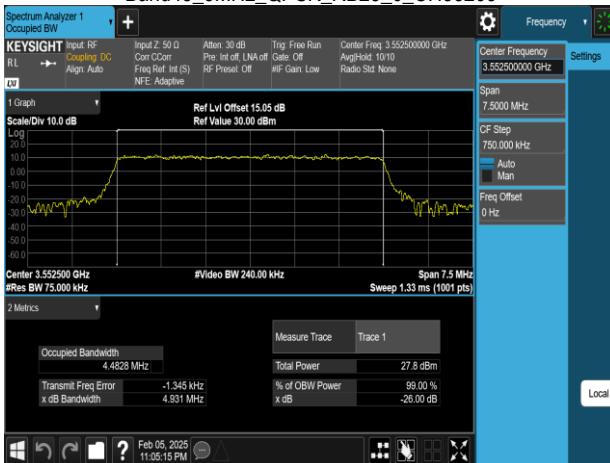
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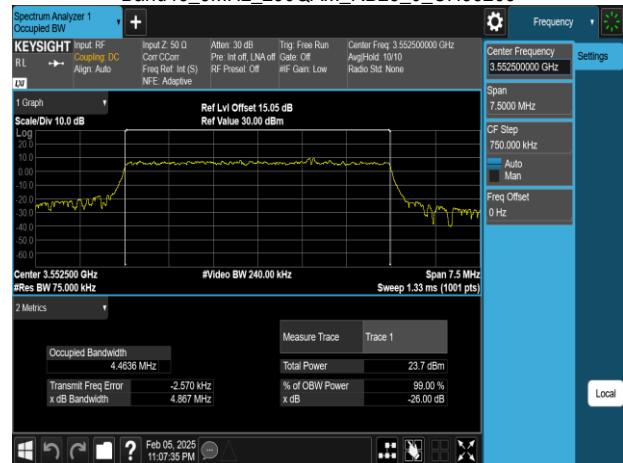
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Band48_5MHz_QPSK_RB25_0_CH55265



Band48_5MHz_256QAM_RB25_0_CH55265



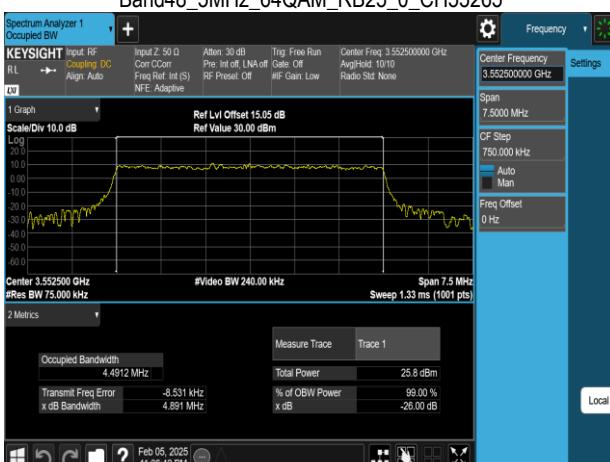
Band48_5MHz_16QAM_RB25_0_CH55265



Band48_5MHz_QPSK_RB25_0_CH55990



Band48_5MHz_64QAM_RB25_0_CH55265



Band48_5MHz_16QAM_RB25_0_CH55990



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Band48 5MHz 64QAM RB25_0_CH55990



Band48_5MHz_16QAM_RB25_0_CH56715



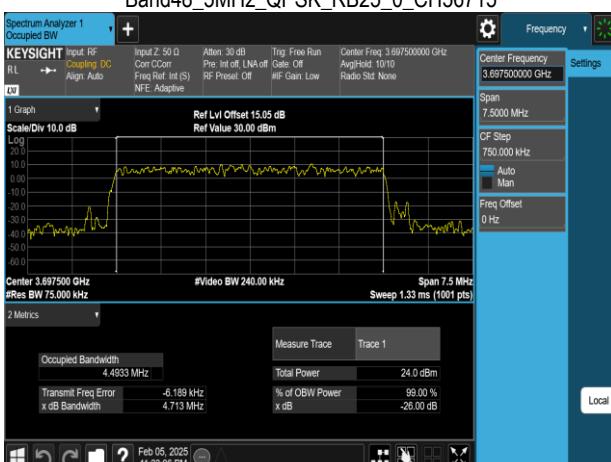
Band48_5MHz_256QAM_RB25_0_CH55990



Band48_5MHz_64QAM_RB25_0_CH56715



Band48_5MHz_QPSK_RB25_0_CH56715



Band48_5MHz_256QAM_RB25_0_CH56715



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Band48_10MHz_QPSK_RB50_0_CH55290



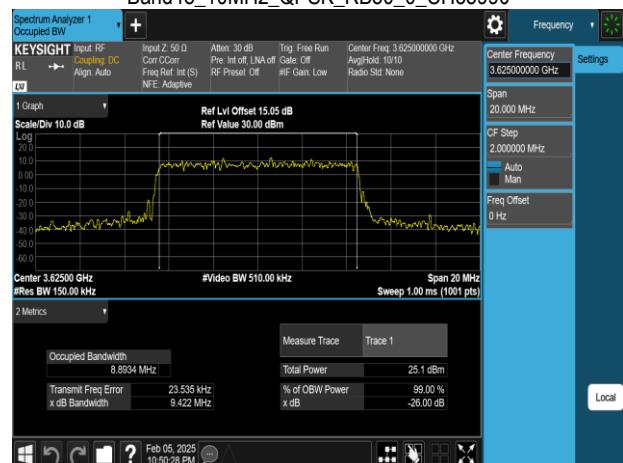
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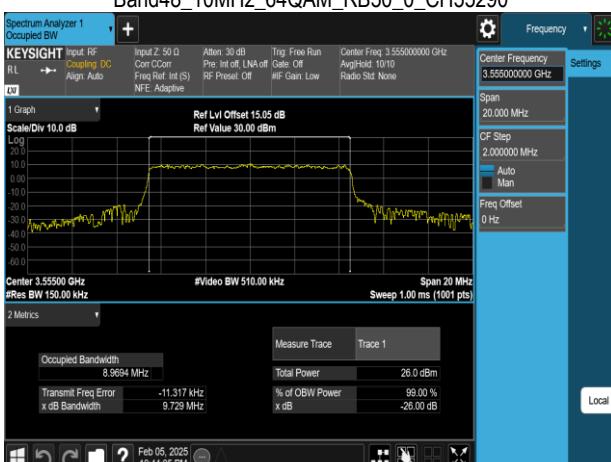
Band48_10MHz_16QAM_RB50_0_CH55290



Band48_10MHz_QPSK_RB50_0_CH55590



Band48_10MHz_64QAM_RB50_0_CH55290



Band48_10MHz_16QAM_RB50_0_CH55590



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Band48_10MHz_64QAM_RB50_0_CH55990



Band48_10MHz_256QAM_RB50_0_CH55990



Band48_10MHz_QPSK_RB50_0_CH56690



Band48_10MHz_16QAM_RB50_0_CH56690



Band48_10MHz_64QAM_RB50_0_CH56690



Band48_10MHz_256QAM_RB50_0_CH56690



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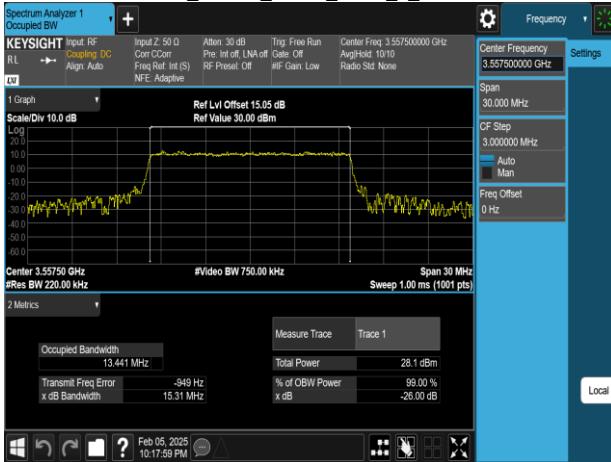
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Band48_15MHz_QPSK_RB75_0_CH55315



Band48_15MHz_256QAM_RB75_0_CH55315



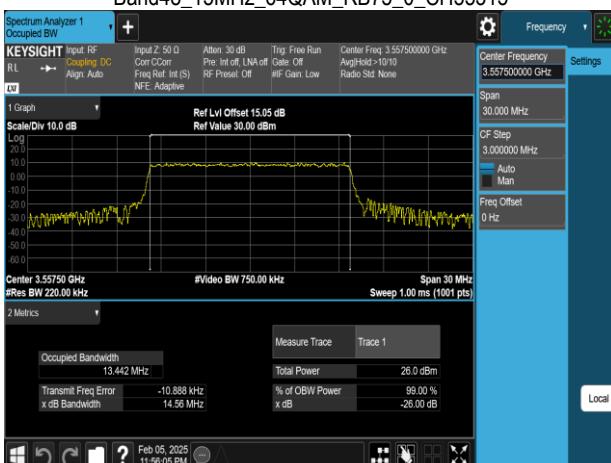
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Band48_15MHz_QPSK_RB75_0_CH55990



Band48_15MHz_64QAM_RB75_0_CH55315



Band48_15MHz_16QAM_RB75_0_CH55990



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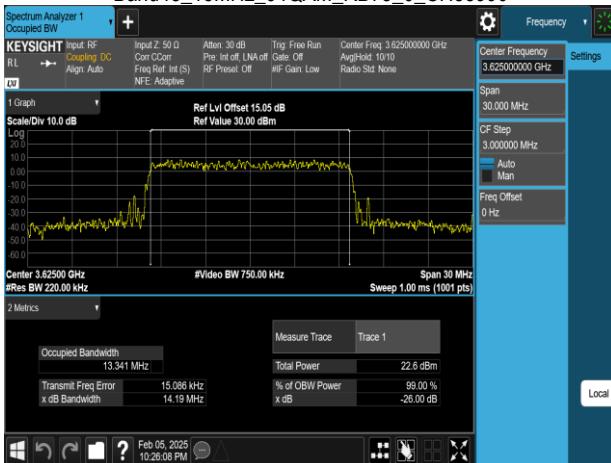
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Band48_15MHz_64QAM_RB75_0_CH55990



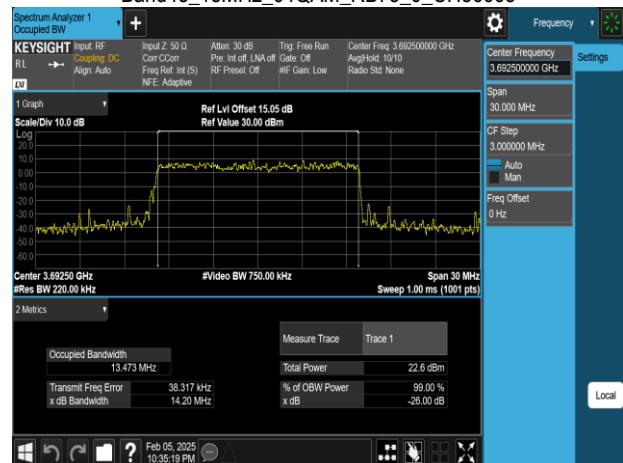
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Band48_15MHz_256QAM_RB75_0_CH55990



Band48_15MHz_64QAM_RB75_0_CH56665



Band48_15MHz_QPSK_RB75_0_CH56665



Band48_15MHz_256QAM_RB75_0_CH56665



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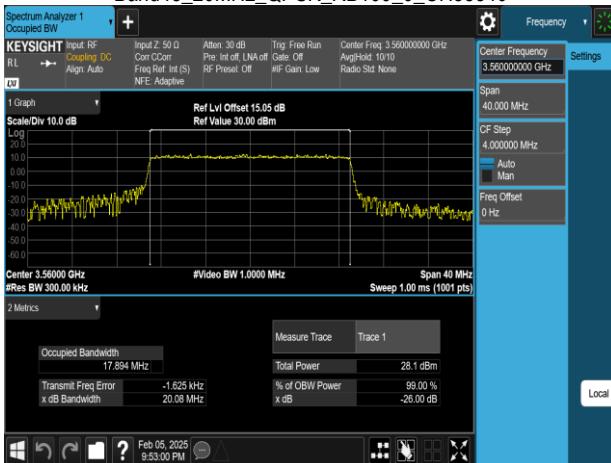
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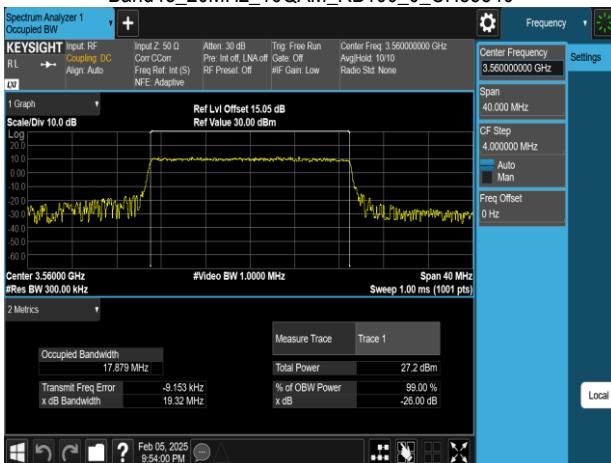
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Band48_20MHz_256QAM_RB100_0_CH55340



Band48_20MHz_16QAM_RB100_0_CH55340



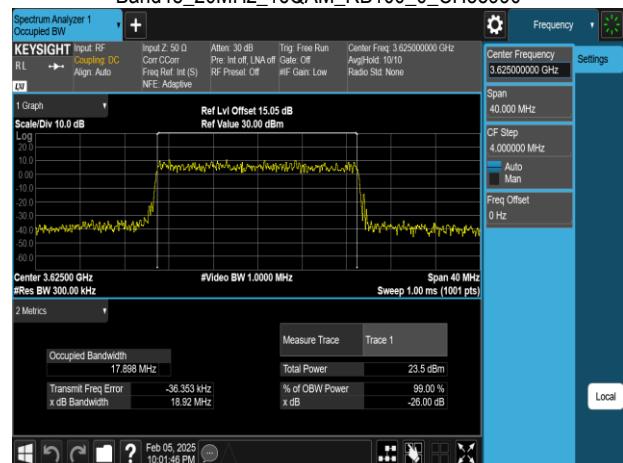
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Band48_20MHz_64QAM_RB100_0_CH55340



Band48_20MHz_16QAM_RB100_0_CH55990



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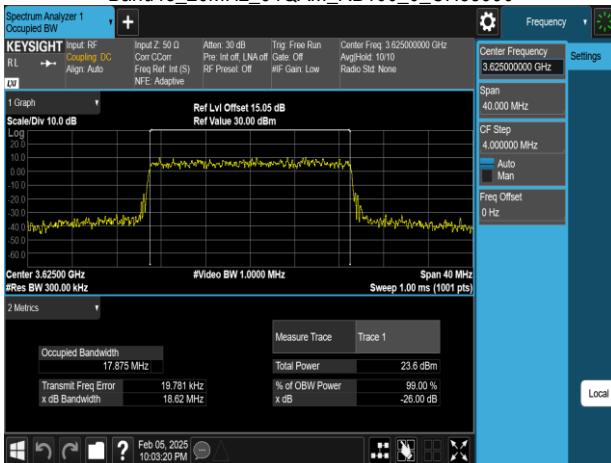
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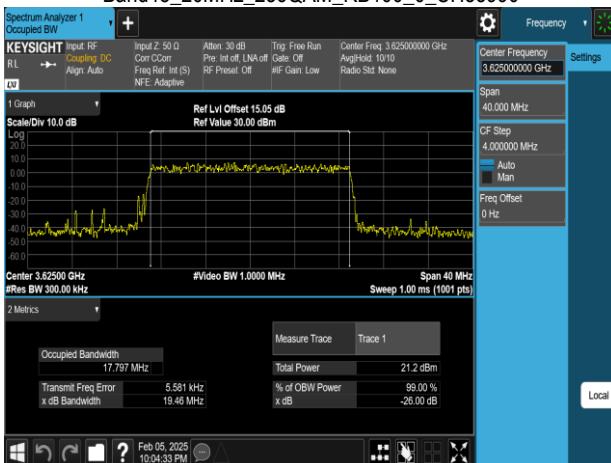
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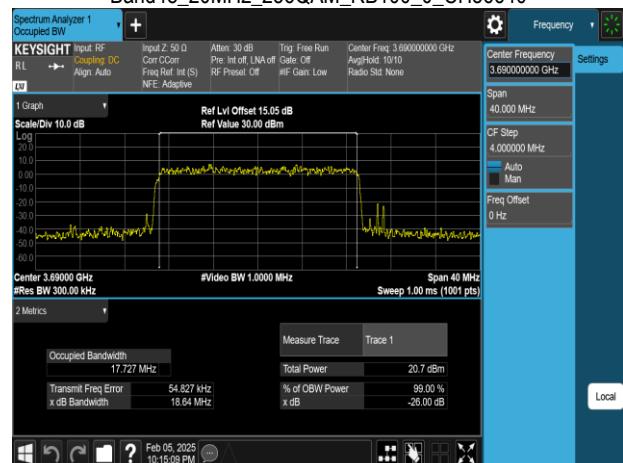
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Band48_20MHz_QPSK_RB100_0_CH56640



Band48_20MHz_256QAM_RB100_0_CH56640



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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	22.832	22.870	22.863	22.876	23.98	23.94	24.01	23.86
LTE BAND 48C	20MHz + 5MHz	100/0 + 25/0	3625.0	22.911	22.864	22.88	22.927	23.87	23.98	23.86	23.88
LTE BAND 48C	10MHz + 20MHz	50/0 + 100/0	3625.0	27.684	27.703	27.745	27.665	29.03	29.68	29.07	29.17
LTE BAND 48C	20MHz + 10MHz	100/0 + 50/0	3625.0	27.73	27.720	27.622	27.754	29.35	29.04	28.99	29.13
LTE BAND 48C	15MHz + 20MHz	75/0 + 100/0	3625.0	32.605	32.511	32.561	32.598	34.24	34.18	37.32	34.2
LTE BAND 48C	20MHz + 15MHz	100/0 + 75/0	3625.0	32.649	32.623	32.634	32.591	34.28	34.32	34.47	34.53
LTE BAND 48C	20MHz + 20MHz	100/0 + 100/0	3625.0	37.546	37.613	37.592	37.571	39.52	40.87	39.52	42.62

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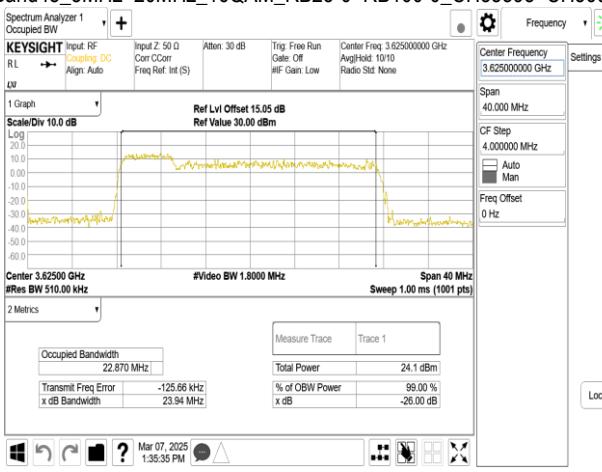
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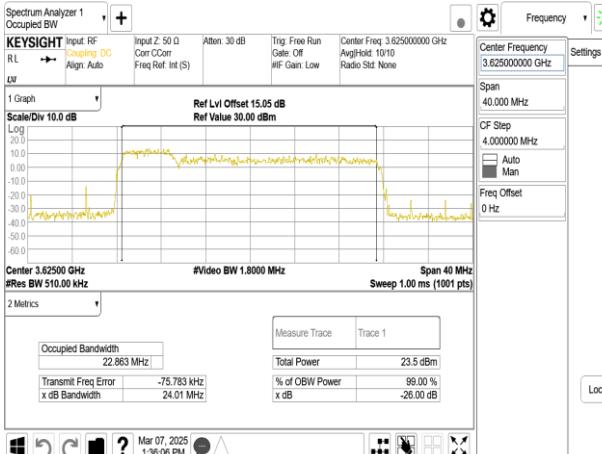
Band48_5MHz+20MHz_QPSK_RB25-0+RB100-0_CH55898+CH56015



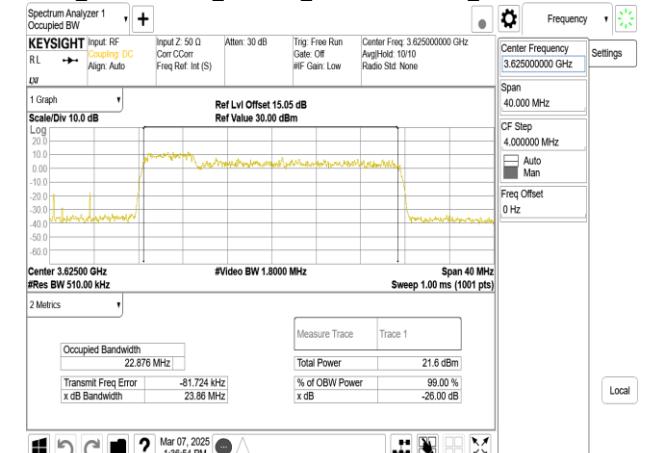
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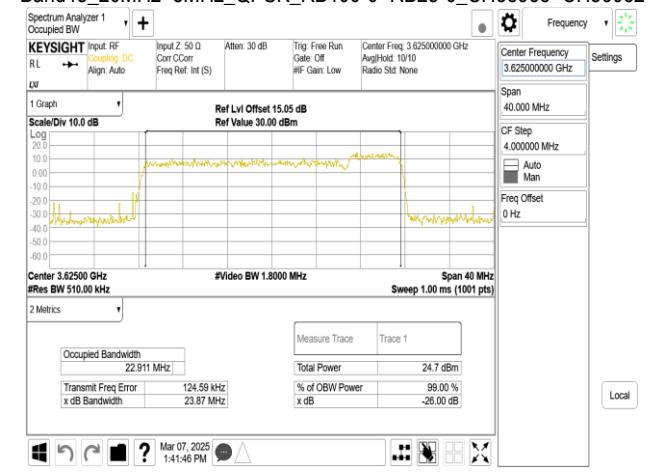
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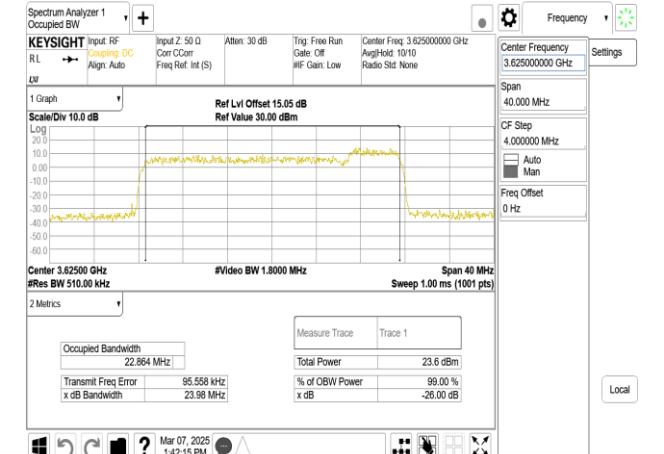
Band48_5MHz+20MHz_256QAM_RB25-0+RB100-0_CH55898+CH56015



Band48_20MHz+5MHz_QPSK_RB100-0+RB25-0_CH55965+CH56082



Band48_20MHz+5MHz_16QAM_RB100-0+RB25-0_CH55965+CH56082



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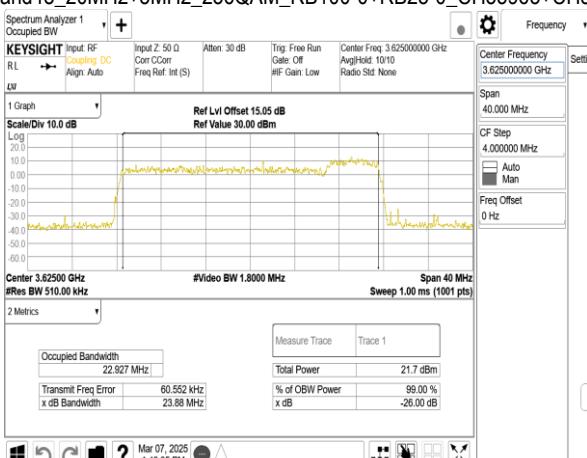
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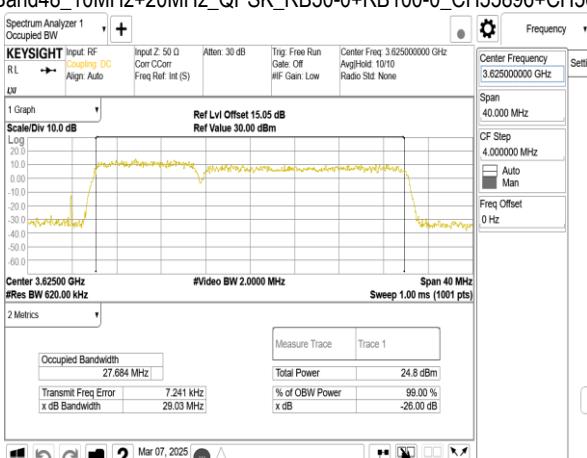
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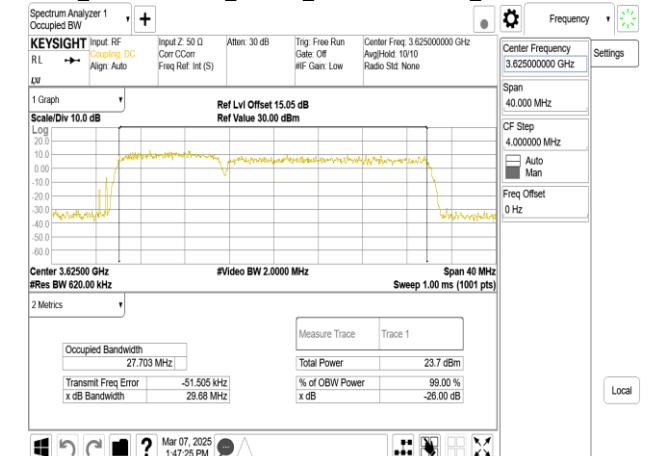
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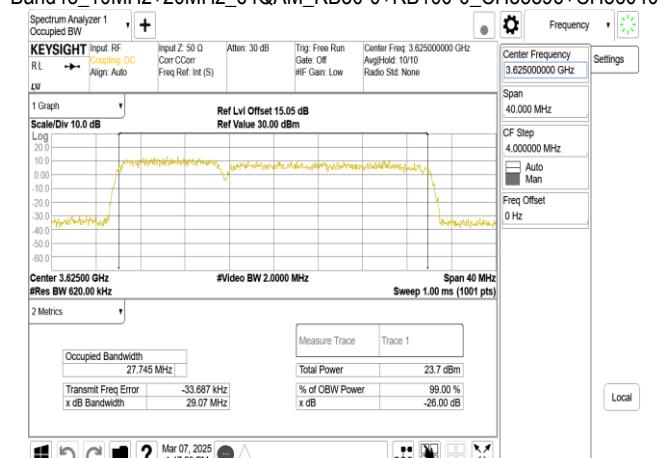
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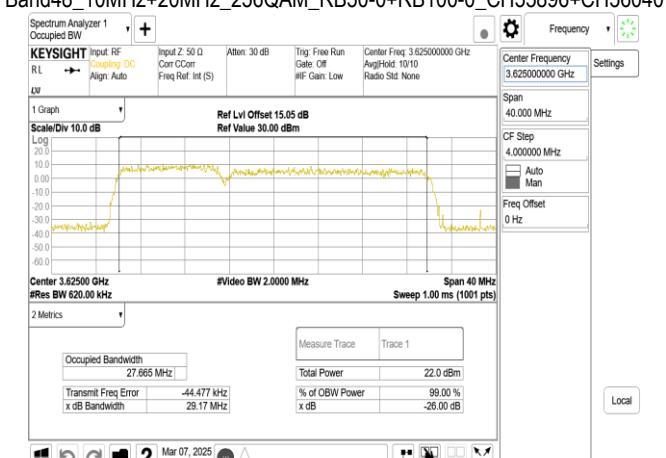
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Band48_10MHz+20MHz_256QAM_RB50-0+RB100-0_CH55896+CH56040



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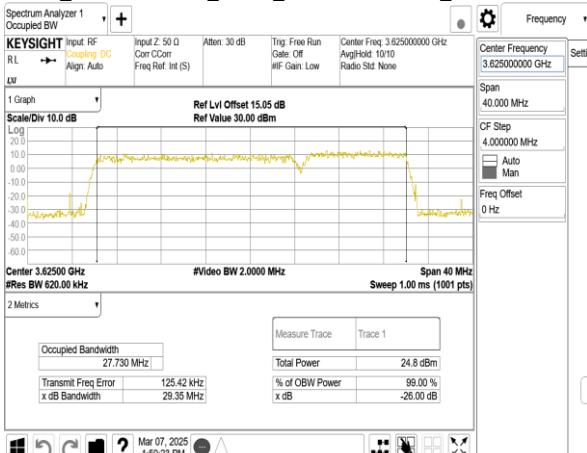
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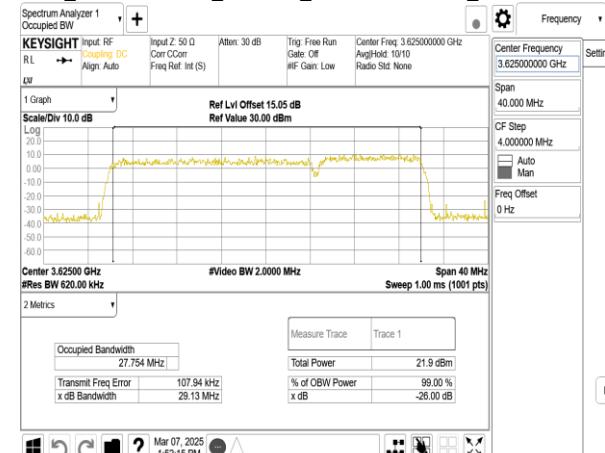
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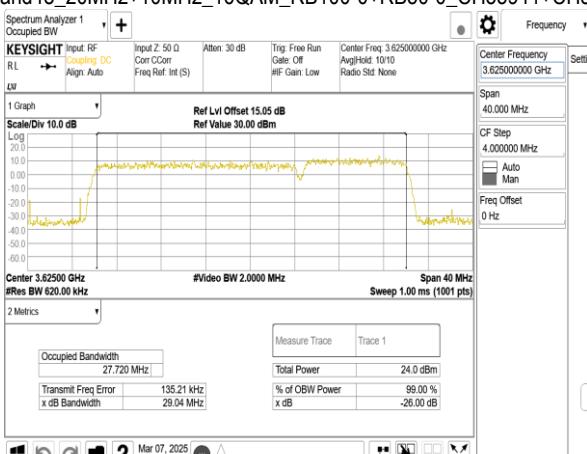
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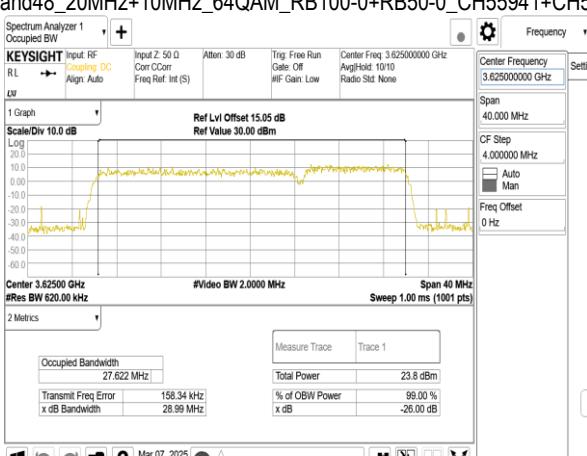
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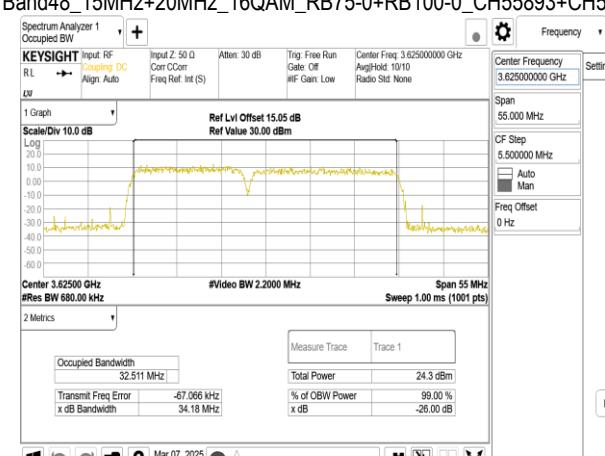
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Band48_15MHz+20MHz_16QAM_RB75-0+RB100-0_CH55893+CH56064



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