

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



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

Product Name: ASUS Phone (Mobile Phone)

Brand Name: ASUS

Model No.: ASUS_I006D

Model Difference: N/A

Report Number: ER/2021/20012

FCC ID MSQI006D

IC: 3568A-I006D

FCC Rule Part: 2, 22H & 24E & 27 C

ISED Rule: RSS-130, 132, 133, 139, 199

Issue Date: April 13, 2021

Date of Test: January 26, 2021 - April 7, 2021

Date of EUT Received: January 26, 2021

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 tested as described in this report is in compliance with conducted and radiated emission limits.

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

Approved By:

Blue Yang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
ER/2021/20012	Rev.00	Original.	April 13, 2021	Tiffany Kao

Note:

- 1、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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Contents

1	GENERAL PRODUCT INFORMATION	4
2	SYSTEM TEST CONFIGURATION	11
3	SUMMARY OF TEST RESULTS	14
4	DESCRIPTION OF TEST MODES	15
5	MEASUREMENT UNCERTAINTY	18
6	MAXMUM OUTPUT POWER	19
7	OCCUPIED BANDWIDTH MEASUREMENT	36
8	OUT OF BAND EMISSION AT ANTENNA TERMINALS	118
9	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	181
10	FREQUENCY STABILITY MEASUREMENT	261
11	PEAK TO AVERAGE RATIO	267

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_I006D
Model Difference:	N/A
Hardware Version:	V4
Software Version:	Android 11
Power Supply:	3.87 Vdc from Rechargeable Li-Polymer Battery or 5 / 9 / 12 / 15 / 20 V from AC/DC Adapter
IMEI:	004400152020000

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1.2 Operation Frequency Range

5G NR Band	BW (MHz)	Operation Frequency (MHz)	5G NR Band	BW (MHz)	Operation Frequency (MHz)
n2	5	1852.5 - 1907.5	n66	5	1712.5 - 1777.5
	10	1855.0 - 1905.0		10	1715 - 1775
	15	1857.5 - 1902.5		15	1717.5 - 1772.5
	20	1860.0 - 1900.0		20	1720 - 1770
n5	5	826.5 - 846.5	n71	5	665.5 - 695.5
	10	829.0 - 844.0		10	668 - 693
	15	831.5 - 841.5		15	670.5 - 690.5
	20	834 - 839		20	673 - 688
n7	5	2502.5 - 2567.5	n71	5	665.5 - 695.5
	10	2505.0 - 2565.0		10	668 - 693
	15	2507.5 - 2562.5		15	670.5 - 690.5
	20	2510.0 - 2560.0		20	673 - 688
n12	5	701.5 - 713.5	n71	5	665.5 - 695.5
	10	704.0 - 711.0		10	668 - 693
	15	706.5 - 708.5		15	670.5 - 690.5
n25	5	1852.5 - 1912.5		20	673 - 688
	10	1855 - 1910	n71	5	665.5 - 695.5
	15	1857.5 - 1907.5		10	668 - 693
	20	1860 - 1905		15	670.5 - 690.5
n38	20	2580 - 2610		20	673 - 688
	30	2585 - 2605	n71	5	665.5 - 695.5
	40	2590 - 2600		10	668 - 693
n25	5	1852.5 - 1912.5		15	670.5 - 690.5
	10	1855 - 1910		20	673 - 688
	15	1857.5 - 1907.5	n71	5	665.5 - 695.5
	20	1860 - 1905		10	668 - 693
n38	20	2580 - 2610		15	670.5 - 690.5
	30	2585 - 2605		20	673 - 688
	40	2590 - 2600		5	665.5 - 695.5

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1.3 Antenna Designation

Antenna Type	Antenna Model No.	Antenna No.
PIFA	ZS590KS	Ant1
		Ant2
		Ant3
Note: The EUT equipped with multiple antennas, however, transmission of 5G NR bands are available by above antenna no.		

Operating Frequency (MHz)		Ant 1 Peak Gain (dBi)	Ant 2 Peak Gain (dBi)	Ant 3 Peak Gain (dBi)
NR Band 2	1850 ~ 1910	-	0.36	-
NR Band 5	824 ~ 849	-5.7	-	-5.8
NR Band 7	2500 ~ 2570		0.03	-
NR Band 12	699 ~ 716	-3.9	-	-6.1
NR Band 25	1850 ~ 1915	-	0.36	-
NR Band 38	2570 ~ 2620	-	-0.79	-
NR Band 66	1710 ~ 1780	-	-0.09	-
NR Band 71	663 ~ 698	-2.8	-	-5.6

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1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

5GNR Band	BW		Mod	EIRP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n2	15	DFT	16QAM	22.04	0.160	14.350	14M4D7W
	15	CP	QPSK	21.3	0.135	13.488	13M5G7D
	10		16QAM	20.87	0.122	8.986	8M99D7W
5GNR Band	BW		Mod	EIRP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n2	20	DFT	BPSK	22.66	0.185	17.990	18M0G7D
			QPSK	22.64	0.184	17.939	17M9G7D
			16QAM	21.6	0.145	17.952	18M0D7W
		CP	QPSK	21.2	0.132	17.939	17M9G7D
			16QAM	20.73	0.118	17.952	18M0D7W

5GNR Band	BW		Mod	ERP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n5	5	DFT	16QAM	15.02	0.032	4.512	4M51D7W
5GNR Band	BW		Mod	ERP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n5	20	DFT	BPSK	15.49	0.035	17.892	17M9G7D
			QPSK	15.42	0.035	17.897	17M9G7D
			16QAM	14.45	0.028	17.927	17M9D7W
		CP	QPSK	14.02	0.025	17.897	17M9G7D
			16QAM	13.52	0.022	17.927	17M9D7W

5GNR Band	BW		Mod	EIRP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n7	10	DFT	QPSK	22.87	0.194	9.008	9M01G7D
	10		16QAM	21.9	0.155	8.990	8M99D7W
5GNR Band	BW		Mod	EIRP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n7	20	DFT	BPSK	22.97	0.198	17.948	17M9G7D
			QPSK	22.85	0.193	17.922	17M9G7D
			16QAM	21.83	0.152	17.936	17M9D7W
		CP	QPSK	22.55	0.180	17.922	17M9G7D
			16QAM	21.15	0.130	17.936	17M9D7W

5GNR Band	BW		Mod	ERP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n12	5	DFT	16QAM	15.91	0.039	4.504	4M50D7W
	10	CP	QPSK	16.16	0.041	8.982	8M98G7D
	10		16QAM	15.4	0.035	8.972	8M97D7W
5GNR Band	BW		Mod	ERP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n12	15	DFT	BPSK	16.97	0.050	13.472	13M5G7D
			QPSK	16.93	0.049	13.477	13M5G7D
			16QAM	15.87	0.039	13.465	13M5D7W
		CP	QPSK	15.61	0.036	13.477	13M5G7D
			16QAM	15.2	0.033	13.465	13M5D7W

5GNR Band	BW		Mod	EIRP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n25	15	CP	QPSK	21.89	0.155	13.489	13M5G7D

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5GNR Band	BW		Mod	EIRP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n25	20	DFT	BPSK	22.6	0.182	17.924	17M9G7D
			QPSK	22.54	0.179	17.954	18M0G7D
			16QAM	21.58	0.144	17.969	18M0D7W
		CP	QPSK	21.12	0.129	17.954	18M0G7D
			16QAM	21.11	0.129	17.969	18M0D7W

5GNR Band	BW		Mod	EIRP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n38	20	DFT	QPSK	22.23	0.167	17.864	17M9G7D
	20	CP	16QAM	21.05	0.127	17.914	17M9D7W

5GNR Band	BW		Mod	EIRP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n38	40	DFT	BPSK	22.33	0.171	35.789	35M8G7D
			QPSK	22.06	0.161	35.806	35M8G7D
			16QAM	21.18	0.131	35.816	35M8D7W
		CP	QPSK	21.86	0.153	35.806	35M8G7D
			16QAM	20.72	0.118	35.816	35M8D7W

5GNR Band	BW		Mod	EIRP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n66	10	DFT	BPSK	22.80	0.191	8.999	9M00G7D
	5		QPSK	22.89	0.195	4.498	4M50G7D
	15		16QAM	21.87	0.154	13.493	13M5D7W
	5	CP	16QAM	20.83	0.121	4.491	4M49D7W

5GNR Band	BW		Mod	EIRP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n66	20	DFT	BPSK	22.78	0.190	17.932	17M9G7D
			QPSK	22.68	0.185	17.958	18M0G7D
			16QAM	21.56	0.143	17.920	17M9D7W
		CP	QPSK	22.87	0.194	17.958	18M0G7D
			16QAM	20.68	0.117	17.920	17M9D7W

5GNR Band	BW		Mod	ERP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n71	5	CP	QPSK	17.21	0.053	5.029	5M03G7D
	10		16QAM	16.38	0.043	8.977	8M98D7W

5GNR Band	BW		Mod	ERP(dBm/10MHz)	(W/10MHz)	99%	Type of Emission
n71	20	DFT	BPSK	18.26	0.067	17.916	17M9G7D
			QPSK	18.25	0.067	17.909	17M9G7D
			16QAM	17.8	0.060	17.931	17M9D7W
		CP	QPSK	16.81	0.048	17.909	17M9G7D
			16QAM	16.28	0.042	17.931	17M9D7W

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C,

ISED RSS-130 Issue 2 Feb. 2019,

ISED RSS-132 Issue 3 Dec. 2016

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018, ISED RSS-139 Issue 3 July 16, 2015

ISED RSS-199 Issue 3 Dec. 2016,

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 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	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction A	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

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

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1.7 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 hand-held 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.

Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
LB(1GHz below)	4.17	10	14.17
MB(1GHz - 2GHz)	4.43	10	14.43
HB(2GHz - 3GHz)	4.9	10	14.9
UHB(3GHz - 4GHz)	5.36	10	15.36

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2.5 Final Amplifier Voltage and Current Information:

5G NR Band	DC voltage (V)	DC current (mA)
n2	3.87	552
n5		600
n7		597
n12		570
n25		564
n38		589
n66		589
n71		564

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2.6 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

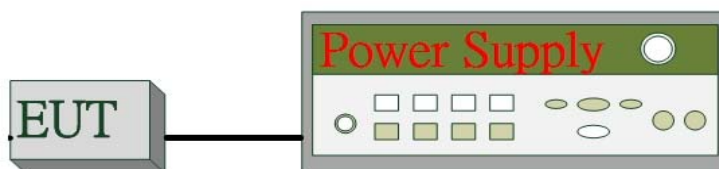


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	DC Power Supply	Agilent	E3640A	MY52410006	shielded	Un-shielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2)	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5 RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a)(b) §24.238(a) §27.53(g) §27.53(h) §27.53(m)(4)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(m)(2)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(a)(1)(B) §27.50(B)	RSS-130 §4.6.1 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.4 RSS-199 §4.4	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	RSS-130 §4.5 RSS-132 §5.3 RSS-133 §6.3 RSS-139 §6.5 RSS-199 §4.3	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 mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	PLAN			Available Antennas			Worst Case Antenna		
	H	E1	E2	Ant1	Ant2	Ant3	Ant1	Ant2	Ant3
n2	V				V			V	
n5	V			V		V	V		
n7	V				V			V	
n12	V			V		V	V		
n25	V				V			V	
n38	V				V			V	
n66	V				V			V	
n71	V			V		V	V		

BAND	H PLAN	E1 PLAN	E2 PLAN
5A_n2A	V		
12A_n2A	V		
2A_n5A	V		
2A_n12A	V		
66A_n12A	V		
12A_n25A	V		
5A_n38A	V		
71A_n38A	V		
5A_n66A	V		
12A_n66A	V		
2A_n71A	V		
7A_n71A	V		
66A_n71A	V		

EUT	Serial Number	Note
ASUS Phone (Mobile Phone)	M1AIB7N00060V5F	N/A

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4.2 Measurement Configuration

1. The worst case scenarios are determined by single uplink configuration that generate the highest output power.
2. Frequency Stability and CCDF are investigated and only present configurations with worst case scenario in this report.

Test Items	Band	Test Channel			Bandwidth (MHz)												Modulation DFT-OFDM				Modulation CP-OFDM				RB #						
		L	M	H	5	10	15	20	30	40	50	60	80	90	100	BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	Edge_1RB_Left	Edge_1RB_Right	Inner_1RB_Left	Inner_1RB_Right	Inner_Full	Outer_Full	
Conducted Power	2	V	V	V	V	V	V	V	V	-	-	-	-	-	-	V	V	V	V	V	V	V	V	V	V	-	-	V	V	V	V
	5	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	V	V	V	V	V	-	-	V	V	V	V
	7	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	V	V	V	V	V	-	-	V	V	V	V
	12	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	V	V	V	V	V	-	-	V	V	V	V
	25	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	V	V	V	V	V	-	-	V	V	V	V
	38	V	V	V	-	-	-	V	V	V	-	-	-	-	-	V	V	V	V	V	V	V	V	V	V	-	-	V	V	V	V
	66	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	V	V	V	V	V	-	-	V	V	V	V
71	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	V	V	V	V	V	-	-	V	V	V	V	
Frequency Stability	2	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	V
	5	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	V
	7	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	V
	12	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	V
	25	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	V
	38	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	V
	66	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	V
71	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	V	
26dB and 99% Bandwidth	2	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	-	-	-	-	-	-	-	-	-	-	V
	5	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	-	-	-	-	-	-	-	-	-	-	V
	7	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	-	-	-	-	-	-	-	-	-	-	V
	12	V	V	V	V	V	V	-	-	-	-	-	-	-	-	V	V	V	V	V	-	-	-	-	-	-	-	-	-	-	V
	25	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	-	-	-	-	-	-	-	-	-	-	V
	38	V	V	V	-	-	-	V	V	V	-	-	-	-	-	V	V	V	V	V	-	-	-	-	-	-	-	-	-	-	V
	66	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	-	-	-	-	-	-	-	-	-	-	V
71	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	V	V	V	V	-	-	-	-	-	-	-	-	-	-	V	
Bandedge	2	V	-	V	V	V	V	V	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V
	5	V	-	V	V	V	V	V	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V
	7	V	-	V	V	V	V	V	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V
	12	V	-	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V
	25	V	-	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V
	38	V	-	V	-	-	-	V	V	V	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V
	66	V	-	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V
71	V	-	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V	-	-	-	-	V	
Conducted Emission	2	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-
	5	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-
	12	V	V	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-
	25	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-
	66	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-
CCDF	71	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	V	-	-	-
	2	V	V	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V
	5	V	V	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V
	7	V	V	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V
	12	V	V	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V
	25	V	V	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V
	38	V	V	V	-	-	-	V	V	V	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V
Mask	66	V	V	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V
	71	V	V	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V
	38	V	V	V	-	-	-	V	V	V	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V
	7	V	V	V	V	V	V	-	-	-	-	-	-	-	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V

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Radiated Emission

E-UTRA Band	SCS	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
					RBs allocated	RB Start
n2A	15K	380000	20	DFT-S-OFDM Pi/2 BPSK	1	1
n5A	15K	166800	20	DFT-S-OFDM Pi/2 BPSK	1	1
n7A	15K	507000	20	DFT-S-OFDM Pi/2 BPSK	1	1
n12A	15K	141700	15	DFT-S-OFDM Pi/2 BPSK	1	1
n25A	15K	381000	20	DFT-S-OFDM Pi/2 BPSK	1	1
n38A	30K	518000	40	DFT-S-OFDM Pi/2 BPSK	1	1
n66A	15K	342500	5	DFT-S-OFDM QPSK	1	1
n71A	15K	134600	20	DFT-S-OFDM Pi/2 BPSK	1	1

ENDC

E-UTRA Band	SCS	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
					RBs allocated	RB Start
5A_n2A	15K	20450_380000	10_20	DFT-S-OFDM Pi/2 BPSK	1	1
12A_n2A	15K	23130_380000	10_20	DFT-S-OFDM Pi/2 BPSK	1	1
2A_n5A	15K	19100_166800	20_20	DFT-S-OFDM Pi/2 BPSK	1	1
2A_n12A	15K	19100_141700	20_15	DFT-S-OFDM Pi/2 BPSK	1	1
66A_n12A	15K	132322_141700	20_15	DFT-S-OFDM Pi/2 BPSK	1	1
12A_n25A	15K	23130_381000	10_20	DFT-S-OFDM Pi/2 BPSK	1	1
5A_n38A	30K	20450_518000	10_40	DFT-S-OFDM Pi/2 BPSK	1	1
71A_n38A	30K	133222_518000	20_40	DFT-S-OFDM Pi/2 BPSK	1	1
5A_n66A	15K	20450_342500	10_5	DFT-S-OFDM QPSK	1	1
12A_n66A	15K	23130_342500	10_5	DFT-S-OFDM QPSK	1	1
2A_n71A	15K	19100_134600	20_20	DFT-S-OFDM Pi/2 BPSK	1	1
7A_n71A	15K	21100_134600	10_20	DFT-S-OFDM Pi/2 BPSK	1	1
66A_n71A	15K	132322_134600	20_20	DFT-S-OFDM Pi/2 BPSK	1	1

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 3dB Horizontal Polarization = +/- 3dB
99% Occupied Bandwidth	+/- 1.54 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.69 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.54 Hz
Frequency Stability vs. Voltage	+/- 1.54 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 1%

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/- 2.64 dB	9kHz~30MHz: +/- 2.3dB	
	+/- 4.93 dB	30MHz - 1000MHz: +/- 3.37dB	
	+/- 4.81 dB	1GHz - 18GHz: +/- 4.04dB	
	+/- 4.52 dB	18GHz - 40GHz: +/- 4.04dB	
Polarization: Horizontal	+/- 2.64 dB	9kHz~30MHz: +/- 2.3dB	
	+/- 4.45 dB	30MHz - 1000MHz: +/- 4.22dB	
	+/- 4.81 dB	1GHz - 18GHz: +/- 4.08dB	
	+/- 4.52 dB	18GHz - 40GHz: +/- 4.08dB	

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 MAXMUM OUTPUT POWER

6.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

6.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(c)

(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

FCC 27.50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment operating in the Band 617-652 and 663-698MHz.

RSS-132 §5.4

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment in operating in the Bands 824-849 and 869-894MHz shall not exceed 11.5 watts.

RSS-133 §6.4

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510.

According to section 5.1.2 of SRSP-510, Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

RSS-139 §6.5

The equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters in the Bands 1710-1780MHz shall not exceed one watt.

RSS-199 §4.4

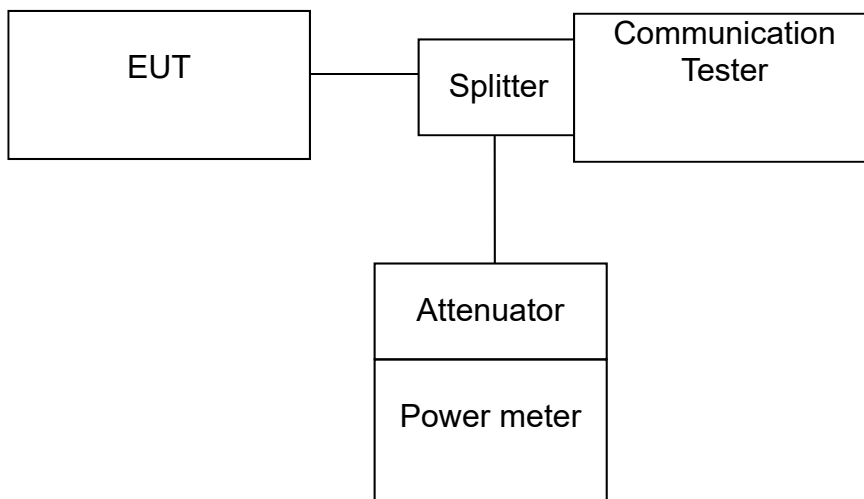
For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

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6.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3 Output Power Measurement Applicable Guidance

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.

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

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

- ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)²), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
- P_T = transmitter output power, expressed in dBW, dBm, or PSD;
- G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

6.5 Measurement Equipment Used

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/19/2020	11/18/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/22/2020	12/21/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBDA	RFLT2W1G1 8G	18112200202	12/16/2020	12/15/2021

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6.6 Measurement Results:

Antenna gain : 0.36

Conducted Output Power(Average power)

Conducted Output Power(Average power)						n2 Maximum Average Power (dBm)			EIRP (dBm)			EIRP Limit
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid	High		
			Channel		370500	376000	381500	370500	376000	381500		
			Frequency (MHz)		1852.5	1880	1907.5	1852.5	1880	1907.5		
5	15	DFT-s PI/2 BPSK	1	1	22.17	22.1	22.22	22.53	22.46	22.58	33	
			1	23	21.98	22.02	22.01	22.34	22.38	22.37		
			12	6	21.83	21.98	22.12	22.19	22.34	22.48		
			25	0	21.74	21.83	21.85	22.1	22.19	22.21		
		DFT-s QPSK	1	1	21.68	21.54	21.71	22.04	21.9	22.07		
			1	23	21.98	21.73	21.63	22.34	22.09	21.99		
			12	6	21.86	21.27	21.49	22.22	21.63	21.85		
			25	0	21.48	21.12	21.37	21.84	21.48	21.73		
		DFT-s 16QAM	1	1	21.64	21.29	21.53	22	21.65	21.89		
		DFT-s 64QAM	1	1	19.74	19.28	19.33	20.1	19.64	19.69		
		DFT-s 256QAM	1	1	17.54	16.98	17.32	17.9	17.34	17.68		
		CP QPSK	1	1	20.73	20.21	20.39	21.09	20.57	20.75		
		CP 16QAM	1	1	20.11	19.7	20.32	20.47	20.06	20.68		
		CP 64QAM	1	1	18.89	18.57	18.37	19.25	18.93	18.73		
		CP 256QAM	1	1	16.23	15.74	15.89	16.59	16.1	16.25		
n2 Maximum Average Power (dBm)						EIRP (dBm)			EIRP Limit			
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low		Mid		High
			Channel		371000	376000	381000	371000		376000		381000
			Frequency (MHz)		1855	1880	1905	1855		1880		1905
10	15	DFT-s PI/2 BPSK	1	1	22.16	22.17	22.26	22.52	22.53	22.62	33	
			1	50	21.96	22.12	22.06	22.32	22.48	22.42		
			25	12	22.03	22.08	22.11	22.39	22.44	22.47		
			50	0	21.78	21.84	21.69	22.14	22.2	22.05		
		DFT-s QPSK	1	1	21.73	21.65	21.53	22.09	22.01	21.89		
			1	50	22.01	21.97	21.45	22.37	22.33	21.81		
			25	12	21.89	21.72	21.64	22.25	22.08	22		
			50	0	21.75	21.63	21.22	22.11	21.99	21.58		
		DFT-s 16QAM	1	1	21.41	21.22	21.03	21.77	21.58	21.39		
		DFT-s 64QAM	1	1	19.85	19.37	19.59	20.21	19.73	19.95		
		DFT-s 256QAM	1	1	17.35	17.74	17.62	17.71	18.1	17.98		
		CP QPSK	1	1	20.69	20.48	20.52	21.05	20.84	20.88		
		CP 16QAM	1	1	20.32	20.09	20.51	20.68	20.45	20.87		
		CP 64QAM	1	1	18.45	18.38	18.59	18.81	18.74	18.95		
		CP 256QAM	1	1	15.87	15.45	15.51	16.23	15.81	15.87		

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n2 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		371500	376000	380500	371500	376000		380500
			Frequency (MHz)		1857.5	1880	1902.5	1857.5	1880		1902.5
15	15	DFT-s PI/2 BPSK	1	1	22.09	22.12	22.14	22.45	22.48	22.5	33
			1	77	22.08	22.02	21.98	22.44	22.38	22.34	
			36	18	22.07	22.04	22.05	22.43	22.4	22.41	
			75	0	21.56	21.47	21.38	21.92	21.83	21.74	
		DFT-s QPSK	1	1	21.97	21.91	21.89	22.33	22.27	22.25	
			1	77	21.85	21.95	21.81	22.21	22.31	22.17	
			36	18	21.94	21.85	21.76	22.3	22.21	22.12	
			75	0	21.03	21.12	21.24	21.39	21.48	21.6	
		DFT-s 16QAM	1	1	21.68	21.42	21.57	22.04	21.78	21.93	
			DFT-s 64QAM	1	1	19.65	19.83	19.99	20.01	20.19	
		DFT-s 256QAM	1	1	17.62	17.58	17.72	17.98	17.94	18.08	
			CP QPSK	1	1	20.65	20.53	20.94	21.01	20.89	
		CP 16QAM	1	1	20.42	20.32	20.27	20.78	20.68	20.63	
			CP 64QAM	1	1	18.63	18.27	18.33	18.99	18.63	
		CP 256QAM	1	1	16.02	15.38	15.63	16.38	15.74	15.99	

n2 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		372000	376000	380000	372000	376000		380000
			Frequency (MHz)		1860	1880	1900	1860	1880		1900
20	15	DFT-s PI/2 BPSK	1	1	22.2	22.24	22.3	22.56	22.6	22.66	33
			1	104	22.09	22.11	22.2	22.45	22.47	22.56	
			50	25	22.14	22.05	22.21	22.5	22.41	22.57	
			100	0	21.63	21.61	21.72	21.99	21.97	22.08	
		DFT-s QPSK	1	1	22.17	22.13	22.17	22.53	22.49	22.53	
			1	104	22.13	22.22	22.28	22.49	22.58	22.64	
			50	25	22.04	22.06	22.08	22.4	22.42	22.44	
			100	0	21.12	21.22	21.21	21.48	21.58	21.57	
		DFT-s 16QAM	1	1	21.07	21.17	21.24	21.43	21.53	21.6	
			DFT-s 64QAM	1	1	19.59	19.68	19.77	19.95	20.04	
		DFT-s 256QAM	1	1	17.6	17.63	17.72	17.96	17.99	18.08	
			CP QPSK	1	1	20.33	20.84	20.62	20.69	21.2	
		CP 16QAM	1	1	20.37	20.22	20.27	20.73	20.58	20.63	
			CP 64QAM	1	1	18.65	18.35	18.37	19.01	18.71	
		CP 256QAM	1	1	15.75	15.71	15.62	16.11	16.07	15.98	

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Antenna gain : -5.7

n5 Maximum Average Power (dBm)							ERP (dBm)			ERP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		165300	167300	169300	165300	167300		169300
			Frequency (MHz)		826.5	836.5	846.5	826.5	836.5		846.5
5	15	DFT-s PI/2 BPSK	1	1	23.23	23.05	22.86	15.38	15.2	15.01	38.45
			1	23	23.13	22.85	22.74	15.28	15	14.89	
			12	6	22.85	22.79	22.72	15	14.94	14.87	
			25	0	22.74	22.58	22.49	14.89	14.73	14.64	
		DFT-s QPSK	1	1	23.2	22.99	22.63	15.35	15.14	14.78	
			1	23	23.1	22.88	22.74	15.25	15.03	14.89	
			12	6	22.88	22.75	21.45	15.03	14.9	13.6	
			25	0	22.57	22.63	22.21	14.72	14.78	14.36	
		DFT-s 16QAM	1	1	22.87	22.25	21.84	15.02	14.4	13.99	
		DFT-s 64QAM	1	1	19.89	19.57	19.47	12.04	11.72	11.62	
		DFT-s 256QAM	1	1	16.55	16.47	16.77	8.7	8.62	8.92	
		CP QPSK	1	1	21.78	21.62	21.35	13.93	13.77	13.5	
		CP 16QAM	1	1	20.68	20.98	20.77	12.83	13.13	12.92	
		CP 64QAM	1	1	19.54	19.51	19.54	11.69	11.66	11.69	
		CP 256QAM	1	1	17.02	16.52	16.59	9.17	8.67	8.74	
n5 Maximum Average Power (dBm)							ERP (dBm)			ERP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		165800	167300	168800	165800	167300		168800
			Frequency (MHz)		829	836.5	844	829	836.5		844
10	15	DFT-s PI/2 BPSK	1	1	23.23	23.05	22.97	15.38	15.2	15.12	38.45
			1	50	23.13	22.85	22.88	15.28	15	15.03	
			25	12	23.17	22.95	22.91	15.32	15.1	15.06	
			50	0	22.24	22.32	22.49	14.39	14.47	14.64	
		DFT-s QPSK	1	1	23.02	22.88	22.93	15.17	15.03	15.08	
			1	50	22.97	22.75	22.84	15.12	14.9	14.99	
			25	12	22.85	22.63	22.75	15	14.78	14.9	
			50	0	22.18	22.11	22.25	14.33	14.26	14.4	
		DFT-s 16QAM	1	1	22.47	22.25	22.23	14.62	14.4	14.38	
		DFT-s 64QAM	1	1	19.56	19.33	19.21	11.71	11.48	11.36	
		DFT-s 256QAM	1	1	16.43	16.37	16.49	8.58	8.52	8.64	
		CP QPSK	1	1	21.42	21.67	21.45	13.57	13.82	13.6	
		CP 16QAM	1	1	20.59	20.65	20.8	12.74	12.8	12.95	
		CP 64QAM	1	1	19.48	19.54	19.18	11.63	11.69	11.33	
		CP 256QAM	1	1	16.62	16.41	16.76	8.77	8.56	8.91	

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n5 Maximum Average Power (dBm)							ERP (dBm)			ERP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		166300	167300	168300	166300	167300		168300
			Frequency (MHz)		831.5	836.5	841.5	831.5	836.5		841.5
15	15	DFT-s PI/2 BPSK	1	1	23.29	23.14	22.92	15.44	15.29	15.07	38.45
			1	77	23.04	22.98	22.89	15.19	15.13	15.04	
			36	18	23.24	23.01	22.82	15.39	15.16	14.97	
			75	0	22.77	22.65	22.45	14.92	14.8	14.6	
		DFT-s QPSK	1	1	23.01	22.88	22.74	15.16	15.03	14.89	
			1	77	22.87	22.75	22.63	15.02	14.9	14.78	
			36	18	22.73	22.81	22.68	14.88	14.96	14.83	
			75	0	22.22	22.52	22.12	14.37	14.67	14.27	
		DFT-s 16QAM	1	1	22.56	22.12	22.14	14.71	14.27	14.29	
		DFT-s 64QAM	1	1	20.13	19.92	19.88	12.28	12.07	12.03	
		DFT-s 256QAM	1	1	17.88	17.57	17.65	10.03	9.72	9.8	
		CP QPSK	1	1	21.74	21.86	21.71	13.89	14.01	13.86	
		CP 16QAM	1	1	21.02	21.23	21.06	13.17	13.38	13.21	
		CP 64QAM	1	1	19.73	19.69	19.64	11.88	11.84	11.79	
		CP 256QAM	1	1	16.82	16.93	16.62	8.97	9.08	8.77	
n5 Maximum Average Power (dBm)							ERP (dBm)			ERP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		166800	167300	167800	166800	167300		167800
			Frequency (MHz)		834	836.5	839	834	836.5		839
20	15	DFT-s PI/2 BPSK	1	1	23.34	23.17	23.01	15.49	15.32	15.16	38.45
			1	104	23.21	23.08	22.97	15.36	15.23	15.12	
			50	25	23.25	23.01	22.84	15.4	15.16	14.99	
			100	0	22.7	22.56	22.38	14.85	14.71	14.53	
		DFT-s QPSK	1	1	23.27	23.07	22.97	15.42	15.22	15.12	
			1	104	23.24	23.02	22.87	15.39	15.17	15.02	
			50	25	23.25	22.98	22.91	15.4	15.13	15.06	
			100	0	22.21	22.05	21.99	14.36	14.2	14.14	
		DFT-s 16QAM	1	1	22.3	22.12	21.86	14.45	14.27	14.01	
		DFT-s 64QAM	1	1	20.73	20.56	20.4	12.88	12.71	12.55	
		DFT-s 256QAM	1	1	18.72	18.6	18.35	10.87	10.75	10.5	
		CP QPSK	1	1	21.77	21.87	21.64	13.92	14.02	13.79	
		CP 16QAM	1	1	21.22	21.37	21.19	13.37	13.52	13.34	
		CP 64QAM	1	1	19.77	19.76	19.58	11.92	11.91	11.73	
		CP 256QAM	1	1	16.75	16.57	16.49	8.9	8.72	8.64	

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Antenna gain : 0.03

n7 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		500500	507000	513500	500500	507000		513500
			Frequency (MHz)		2502.5	2535	2567.5	2502.5	2535		2567.5
5	15	DFT-s PI/2 BPSK	1	1	22.26	22.82	22.43	22.29	22.85	22.46	33
			1	23	21.89	22.49	22.22	21.92	22.52	22.25	
			12	6	21.97	22.33	22.15	22	22.36	22.18	
			25	0	20.98	21.56	21.84	21.01	21.59	21.87	
		DFT-s QPSK	1	1	21.99	22.12	22.05	22.02	22.15	22.08	
			1	23	21.79	22.06	21.98	21.82	22.09	22.01	
			12	6	21.98	21.99	22.1	22.01	22.02	22.13	
			25	0	21.32	21.12	21.65	21.35	21.15	21.68	
		DFT-s 16QAM	1	1	20.83	20.41	19.53	20.86	20.44	19.56	
		DFT-s 64QAM	1	1	19.16	19.77	19.06	19.19	19.8	19.09	
		DFT-s 256QAM	1	1	19.28	17.35	17.54	19.31	17.38	17.57	
		CP QPSK	1	1	20.34	20.65	20.24	20.37	20.68	20.27	
		CP 16QAM	1	1	20.12	20.05	20.25	20.15	20.08	20.28	
		CP 64QAM	1	1	18.15	18.4	17.95	18.18	18.43	17.98	
		CP 256QAM	1	1	17.25	16.86	16.84	17.28	16.89	16.87	
n7 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		501000	507000	513000	501000	507000		513000
			Frequency (MHz)		2505	2535	2565	2505	2535		2565
10	15	DFT-s PI/2 BPSK	1	1	22.19	22.91	22.36	22.22	22.94	22.39	33
			1	50	22.02	22.88	22.12	22.05	22.91	22.15	
			25	12	21.83	22.72	22.16	21.86	22.75	22.19	
			50	0	21.77	22.65	21.8	21.8	22.68	21.83	
		DFT-s QPSK	1	1	21.99	22.79	21.88	22.02	22.82	21.91	
			1	50	22.02	22.84	21.79	22.05	22.87	21.82	
			25	12	21.86	22.73	21.82	21.89	22.76	21.85	
			50	0	21.15	22.24	21.53	21.18	22.27	21.56	
		DFT-s 16QAM	1	1	21.65	21.87	21.32	21.68	21.9	21.35	
		DFT-s 64QAM	1	1	19.25	18.5	18.17	19.28	18.53	18.2	
		DFT-s 256QAM	1	1	18.11	17.24	17.44	18.14	17.27	17.47	
		CP QPSK	1	1	21.52	20.55	20.47	21.55	20.58	20.5	
		CP 16QAM	1	1	19.78	19.65	19.74	19.81	19.68	19.77	
		CP 64QAM	1	1	18.45	18.42	17.93	18.48	18.45	17.96	
		CP 256QAM	1	1	16.88	16.55	16.28	16.91	16.58	16.31	

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n7 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		501500	507000	512500	501500	507000		512500
			Frequency (MHz)		2507.5	2535	2562.5	2507.5	2535		2562.5
15	15	DFT-s PI/2 BPSK	1	1	22.18	22.89	22.46	22.21	22.92	22.49	33
			1	77	21.85	22.65	22.43	21.88	22.68	22.46	
			36	18	21.97	22.59	22.42	22	22.62	22.45	
			75	0	21.64	22.03	21.87	21.67	22.06	21.9	
		DFT-s QPSK	1	1	22.17	22.43	22.21	22.2	22.46	22.24	
			1	77	22.02	22.41	22.17	22.05	22.44	22.2	
			36	18	22.15	22.38	22.12	22.18	22.41	22.15	
			75	0	21.54	21.86	21.78	21.57	21.89	21.81	
		DFT-s 16QAM	1	1	21.67	21.77	21.76	21.7	21.8	21.79	
		DFT-s 64QAM	1	1	21.25	18.69	19.84	21.28	18.72	19.87	
		DFT-s 256QAM	1	1	19.4	18.15	18.24	19.43	18.18	18.27	
		CP QPSK	1	1	21.53	21.55	21.45	21.56	21.58	21.48	
		CP 16QAM	1	1	19.79	19.68	19.95	19.82	19.71	19.98	
		CP 64QAM	1	1	18.54	18.98	18.31	18.57	19.01	18.34	
		CP 256QAM	1	1	16.9	16.82	16.5	16.93	16.85	16.53	
n7 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		502000	507000	512000	502000	507000		512000
			Frequency (MHz)		2510	2535	2560	2510	2535		2560
20	15	DFT-s PI/2 BPSK	1	1	22.31	22.94	22.51	22.34	22.97	22.54	33
			1	104	22.15	22.83	22.48	22.18	22.86	22.51	
			50	25	22.29	22.86	22.48	22.32	22.89	22.51	
			100	0	21.75	22.34	21.92	21.78	22.37	21.95	
		DFT-s QPSK	1	1	22.23	22.8	22.41	22.26	22.83	22.44	
			1	104	22.27	22.78	22.35	22.3	22.81	22.38	
			50	25	22.24	22.82	22.33	22.27	22.85	22.36	
			100	0	21.22	21.8	21.43	21.25	21.83	21.46	
		DFT-s 16QAM	1	1	21.27	21.8	21.41	21.3	21.83	21.44	
		DFT-s 64QAM	1	1	19.67	20.34	19.99	19.7	20.37	20.02	
		DFT-s 256QAM	1	1	17.74	18.3	17.89	17.77	18.33	17.92	
		CP QPSK	1	1	22.09	22.19	22.52	22.12	22.22	22.55	
		CP 16QAM	1	1	21.12	19.78	19.6	21.15	19.81	19.63	
		CP 64QAM	1	1	19.89	19.45	19.12	19.92	19.48	19.15	
		CP 256QAM	1	1	16.23	16.74	16.31	16.26	16.77	16.34	

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Antenna gain : -3.9

n12 Maximum Average Power (dBm)								ERP (dBm)			ERP Limit
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid	High	
			Channel		140300	141500	142700	140300	141500	142700	
			Frequency (MHz)		701.5	707.5	713.5	701.5	707.5	713.5	
5	15	DFT-s PI/2 BPSK	1	1	22.9	22.81	22.99	16.85	16.76	16.94	34.77
			1	23	22.87	22.75	22.93	16.82	16.7	16.88	
			12	6	22.78	22.63	22.95	16.73	16.58	16.9	
			25	0	22.25	22.26	22.46	16.2	16.21	16.41	
		DFT-s QPSK	1	1	22.74	22.69	22.83	16.69	16.64	16.78	
			1	23	22.54	22.71	22.73	16.49	16.66	16.68	
			12	6	22.46	22.68	22.61	16.41	16.63	16.56	
			25	0	21.92	22.21	21.98	15.87	16.16	15.93	
		DFT-s 16QAM	1	1	21.14	21.24	21.22	15.09	15.19	15.17	
		DFT-s 64QAM	1	1	20.49	19.41	20.17	14.44	13.36	14.12	
		DFT-s 256QAM	1	1	17.26	17.45	17.28	11.21	11.4	11.23	
		CP QPSK	1	1	21.85	21.54	21.67	15.8	15.49	15.62	
		CP 16QAM	1	1	21.09	21.02	21.24	15.04	14.97	15.19	
		CP 64QAM	1	1	19.98	19.73	20.12	13.93	13.68	14.07	
		CP 256QAM	1	1	17.56	16.85	16.84	11.51	10.8	10.79	
n12 Maximum Average Power (dBm)								ERP (dBm)			ERP Limit
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid	High	
			Channel		140800	141500	142200	140800	141500	142200	
			Frequency (MHz)		704	707.5	711	704	707.5	711	
10	15	DFT-s PI/2 BPSK	1	1	22.85	22.8	22.91	16.8	16.75	16.86	34.77
			1	50	22.81	22.73	22.85	16.76	16.68	16.8	
			25	12	22.83	22.78	22.77	16.78	16.73	16.72	
			50	0	22.74	22.28	22.34	16.69	16.23	16.29	
		DFT-s QPSK	1	1	22.81	22.75	22.83	16.76	16.7	16.78	
			1	50	22.77	22.65	22.77	16.72	16.6	16.72	
			25	12	22.53	22.74	22.79	16.48	16.69	16.74	
			50	0	22.21	22.12	22.38	16.16	16.07	16.33	
		DFT-s 16QAM	1	1	21.96	21	21.34	15.91	14.95	15.29	
		DFT-s 64QAM	1	1	20.58	20.89	20.61	14.53	14.84	14.56	
		DFT-s 256QAM	1	1	17.98	18.42	18.33	11.93	12.37	12.28	
		CP QPSK	1	1	22.21	21.89	21.77	16.16	15.84	15.72	
		CP 16QAM	1	1	21.45	21.32	21.24	15.4	15.27	15.19	
		CP 64QAM	1	1	19.77	19.89	19.83	13.72	13.84	13.78	
		CP 256QAM	1	1	17.21	17.32	16.88	11.16	11.27	10.83	
n12 Maximum Average Power (dBm)								ERP (dBm)			ERP Limit
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid	High	
			Channel		141300	141500	141700	141300	141500	141700	
			Frequency (MHz)		706.5	707.5	708.5	706.5	707.5	708.5	
15	15	DFT-s PI/2 BPSK	1	1	22.94	22.91	23.02	16.89	16.86	16.97	34.77
			1	77	22.86	22.76	22.99	16.81	16.71	16.94	
			36	18	22.84	22.71	22.88	16.79	16.66	16.83	
			75	0	22.28	22.37	22.36	16.23	16.32	16.31	
		DFT-s QPSK	1	1	22.86	22.75	22.86	16.81	16.7	16.81	
			1	77	22.89	22.88	22.98	16.84	16.83	16.93	
			36	18	22.78	22.85	22.91	16.73	16.8	16.86	
			75	0	21.83	21.79	22	15.78	15.74	15.95	
		DFT-s 16QAM	1	1	21.78	21.88	21.92	15.73	15.83	15.87	
		DFT-s 64QAM	1	1	20.37	20.31	20.37	14.32	14.26	14.32	
		DFT-s 256QAM	1	1	18.28	18.27	18.38	12.23	12.22	12.33	
		CP QPSK	1	1	21.45	21.65	21.66	15.4	15.6	15.61	
		CP 16QAM	1	1	21.22	21.19	21.25	15.17	15.14	15.2	
		CP 64QAM	1	1	20.12	20.05	19.98	14.07	14	13.93	
		CP 256QAM	1	1	17.85	17.12	17.05	11.8	11.07	11	

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Antenna gain : 0.36

n25 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		370500	376500	382500	370500	376500		382500
			Frequency (MHz)		1852.5	1882.5	1912.5	1852.5	1882.5		1912.5
5	15	DFT-s PI/2 BPSK	1	1	22.03	22.11	22.09	22.39	22.47	22.45	
			1	23	21.85	21.89	22.01	22.21	22.25	22.37	
			12	6	21.88	21.83	21.87	22.24	22.19	22.23	
			25	0	21.24	21.32	21.29	21.6	21.68	21.65	
		DFT-s QPSK	1	1	21.74	21.65	21.78	22.1	22.01	22.14	
			1	23	21.83	21.54	21.65	22.19	21.9	22.01	
			12	6	21.94	21.49	21.57	22.3	21.85	21.93	
			25	0	21.45	21.01	21.21	21.81	21.37	21.57	
		DFT-s 16QAM	1	1	20.98	20.31	20.36	21.34	20.67	20.72	
		DFT-s 64QAM	1	1	18.65	18.26	18.66	19.01	18.62	19.02	
		DFT-s 256QAM	1	1	17.21	16.58	16.74	17.57	16.94	17.1	
		CP QPSK	1	1	20.65	20.15	20.32	21.01	20.51	20.68	
		CP 16QAM	1	1	20.22	20.02	19.82	20.58	20.38	20.18	
		CP 64QAM	1	1	18.45	18.49	18.43	18.81	18.85	18.79	
		CP 256QAM	1	1	17.98	17.23	17.25	18.34	17.59	17.61	
n25 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		371000	376500	382000	371000	376500		382000
			Frequency (MHz)		1855	1882.5	1910	1855	1882.5		1910
10	15	DFT-s PI/2 BPSK	1	1	22.1	22.16	22.14	22.46	22.52	22.5	
			1	50	21.81	21.98	22.05	22.17	22.34	22.41	
			25	12	21.93	21.93	21.94	22.29	22.29	22.3	
			50	0	21.42	21.39	21.29	21.78	21.75	21.65	
		DFT-s QPSK	1	1	21.74	21.75	21.63	22.1	22.11	21.99	
			1	50	21.69	21.58	21.51	22.05	21.94	21.87	
			25	12	21.87	21.52	21.44	22.23	21.88	21.8	
			50	0	21.33	20.92	20.87	21.69	21.28	21.23	
		DFT-s 16QAM	1	1	20.45	20.51	20.24	20.81	20.87	20.6	
		DFT-s 64QAM	1	1	18.99	18.53	18.5	19.35	18.89	18.86	
		DFT-s 256QAM	1	1	17.98	16.54	16.85	18.34	16.9	17.21	
		CP QPSK	1	1	20.54	20.59	20.7	20.9	20.95	21.06	
		CP 16QAM	1	1	19.66	20.01	20.25	20.02	20.37	20.61	
		CP 64QAM	1	1	18.43	18.43	18.4	18.79	18.79	18.76	
		CP 256QAM	1	1	17.12	16.98	16.54	17.48	17.34	16.9	

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n25 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		371500	376500	381500	371500	376500		381500
			Frequency (MHz)		1857.5	1882.5	1907.5	1857.5	1882.5		1907.5
15	15	DFT-s PI/2 BPSK	1	1	22.08	22.18	22.2	22.44	22.54	22.56	33
			1	77	22.12	22.02	22.14	22.48	22.38	22.5	
			36	18	21.96	21.97	21.89	22.32	22.33	22.25	
			75	0	20.92	21.12	21.03	21.28	21.48	21.39	
		DFT-s QPSK	1	1	21.69	21.79	21.78	22.05	22.15	22.14	
			1	77	21.65	21.71	21.63	22.01	22.07	21.99	
			36	18	21.52	21.66	21.68	21.88	22.02	22.04	
			75	0	20.91	20.85	20.93	21.27	21.21	21.29	
		DFT-s 16QAM	1	1	20.32	20.22	19.96	20.68	20.58	20.32	
		DFT-s 64QAM	1	1	18.45	18.71	18.82	18.81	19.07	19.18	
		DFT-s 256QAM	1	1	17.56	17.57	17.48	17.92	17.93	17.84	
		CP QPSK	1	1	21.53	20.54	20.33	21.89	20.9	20.69	
		CP 16QAM	1	1	20.35	20.2	19.88	20.71	20.56	20.24	
		CP 64QAM	1	1	18.12	18.63	18.52	18.48	18.99	18.88	
		CP 256QAM	1	1	16.74	16.89	16.93	17.1	17.25	17.29	
n25 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		372000	376500	381000	372000	376500		381000
			Frequency (MHz)		1860	1882.5	1905	1860	1882.5		1905
20	15	DFT-s PI/2 BPSK	1	1	22.19	22.21	22.24	22.55	22.57	22.6	33
			1	104	22.1	22.13	22.21	22.46	22.49	22.57	
			50	25	22.11	22.05	22.18	22.47	22.41	22.54	
			100	0	21.53	21.66	21.63	21.89	22.02	21.99	
		DFT-s QPSK	1	1	22.05	22.13	22.15	22.41	22.49	22.51	
			1	104	22.11	22.12	22.18	22.47	22.48	22.54	
			50	25	21.98	22.15	22.14	22.34	22.51	22.5	
			100	0	21.07	21.17	21.08	21.43	21.53	21.44	
		DFT-s 16QAM	1	1	21.09	21.11	21.22	21.45	21.47	21.58	
		DFT-s 64QAM	1	1	19.57	19.63	19.7	19.93	19.99	20.06	
		DFT-s 256QAM	1	1	17.61	17.63	17.68	17.97	17.99	18.04	
		CP QPSK	1	1	20.71	20.76	20.54	21.07	21.12	20.9	
		CP 16QAM	1	1	20.75	20.32	20.2	21.11	20.68	20.56	
		CP 64QAM	1	1	18.74	18.66	18.54	19.1	19.02	18.9	
		CP 256QAM	1	1	16.29	16.68	16.56	16.65	17.04	16.92	

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Antenna gain : -0.79

n38 Maximum Average Power (dBm)								EIRP (dBm)			EIRP Limit
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid	High	
			Channel		516000	519000	522000	516000	519000	522000	
			Frequency (MHz)		2580	2595	2610	2580	2595	2610	
20	30	DFT-s PI/2 BPSK	1	1	23.03	22.87	22.83	22.24	22.08	22.04	33
			1	49	22.87	22.75	22.78	22.08	21.96	21.99	
			25	12	22.86	22.73	22.74	22.07	21.94	21.95	
			50	0	22.45	22.35	22.16	21.66	21.56	21.37	
		DFT-s QPSK	1	1	23.02	22.75	22.83	22.23	21.96	22.04	
			1	49	22.57	22.63	22.54	21.78	21.84	21.75	
			25	12	22.23	22.12	22.39	21.44	21.33	21.6	
			50	0	21.92	21.79	21.71	21.13	21	20.92	
		DFT-s 16QAM	1	1	21.97	21.76	21.73	21.18	20.97	20.94	
		DFT-s 64QAM	1	1	20.41	20.28	20.22	19.62	19.49	19.43	
		DFT-s 256QAM	1	1	18.43	18.23	18.19	17.64	17.44	17.4	
		CP QPSK	1	1	22.32	22.44	22.37	21.53	21.65	21.58	
		CP 16QAM	1	1	21.84	21.65	21.58	21.05	20.86	20.79	
		CP 64QAM	1	1	19.98	19.86	20.01	19.19	19.07	19.22	
		CP 256QAM	1	1	17.65	17.87	17.92	16.86	17.08	17.13	
n38 Maximum Average Power (dBm)								EIRP (dBm)			EIRP Limit
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid	High	
			Channel		517000	519000	521000	517000	519000	521000	
			Frequency (MHz)		2585	2595	2605	2585	2595	2605	
30	30	DFT-s PI/2 BPSK	1	1	22.89	22.93	22.91	22.1	22.14	22.12	33
			1	76	22.85	22.83	22.89	22.06	22.04	22.1	
			36	18	22.73	22.71	22.84	21.94	21.92	22.05	
			75	0	22.15	22.21	22.33	21.36	21.42	21.54	
		DFT-s QPSK	1	1	22.78	22.85	22.73	21.99	22.06	21.94	
			1	76	22.71	22.74	22.65	21.92	21.95	21.86	
			36	18	22.67	22.63	22.71	21.88	21.84	21.92	
			75	0	21.98	21.84	21.89	21.19	21.05	21.1	
		DFT-s 16QAM	1	1	21.89	21.83	21.93	21.1	21.04	21.14	
		DFT-s 64QAM	1	1	20.56	20.39	20.12	19.77	19.6	19.33	
		DFT-s 256QAM	1	1	18.47	18.61	18.32	17.68	17.82	17.53	
		CP QPSK	1	1	22.35	22.29	22.18	21.56	21.5	21.39	
		CP 16QAM	1	1	21.45	21.57	21.36	20.66	20.78	20.57	
		CP 64QAM	1	1	19.82	19.77	19.32	19.03	18.98	18.53	
		CP 256QAM	1	1	17.74	17.66	17.56	16.95	16.87	16.77	
n38 Maximum Average Power (dBm)								EIRP (dBm)			EIRP Limit
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid	High	
			Channel		518000	519000	520000	518000	519000	520000	
			Frequency (MHz)		2590	2595	2600	2590	2595	2600	
40	30	DFT-s PI/2 BPSK	1	1	23.12	23.05	23.02	22.33	22.26	22.23	33
			1	104	22.98	22.89	22.93	22.19	22.1	22.14	
			50	25	22.85	22.81	22.84	22.06	22.02	22.05	
			100	0	22.56	22.42	22.39	21.77	21.63	21.6	
		DFT-s QPSK	1	1	22.85	22.76	22.74	22.06	21.97	21.95	
			1	104	22.63	22.71	22.68	21.84	21.92	21.89	
			50	25	22.72	22.69	22.54	21.93	21.9	21.75	
			100	0	22.31	22.2	22.12	21.52	21.41	21.33	
		DFT-s 16QAM	1	1	21.85	21.97	21.89	21.06	21.18	21.1	
		DFT-s 64QAM	1	1	20.42	20.33	20.45	19.63	19.54	19.66	
		DFT-s 256QAM	1	1	18.32	18.42	18.54	17.53	17.63	17.75	
		CP QPSK	1	1	22.65	22.57	22.44	21.86	21.78	21.65	
		CP 16QAM	1	1	21.39	21.43	21.51	20.6	20.64	20.72	
		CP 64QAM	1	1	19.74	19.87	19.64	18.95	19.08	18.85	
		CP 256QAM	1	1	17.54	17.62	17.34	16.75	16.83	16.55	

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Antenna gain : -0.09

n66 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		342500	349000	355500	342500	349000		355500
			Frequency (MHz)		1712.5	1745	1777.5	1712.5	1745		1777.5
5	15	DFT-s PI/2 BPSK	1	1	22.83	22.49	22.53	22.74	22.4	22.44	30
			1	23	22.81	22.35	22.29	22.72	22.26	22.2	
			12	6	22.78	22.4	22.43	22.69	22.31	22.34	
			25	0	22.23	21.87	21.98	22.14	21.78	21.89	
		DFT-s QPSK	1	1	22.98	22.22	22.19	22.89	22.13	22.1	
			1	23	22.85	22.14	22.03	22.76	22.05	21.94	
			12	6	22.7	22.19	22.21	22.61	22.1	22.12	
			25	0	21.9	21.58	21.67	21.81	21.49	21.58	
		DFT-s 16QAM	1	1	20.47	20.54	20.41	20.38	20.45	20.32	
		DFT-s 64QAM	1	1	19.12	19.38	19.15	19.03	19.29	19.06	
		DFT-s 256QAM	1	1	18.63	18.52	18.32	18.54	18.43	18.23	
		CP QPSK	1	1	21.56	21.28	21.32	21.47	21.19	21.23	
		CP 16QAM	1	1	20.37	20.92	20.36	20.28	20.83	20.27	
		CP 64QAM	1	1	19.22	19.18	18.75	19.13	19.09	18.66	
		CP 256QAM	1	1	16.24	16.16	16.24	16.15	16.07	16.15	
n66 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		343000	349000	355000	343000	349000		355000
			Frequency (MHz)		1715	1745	1775	1715	1745		1775
10	15	DFT-s PI/2 BPSK	1	1	22.79	22.55	22.56	22.7	22.46	22.47	30
			1	50	22.8	22.32	21.97	22.71	22.23	21.88	
			25	12	22.89	22.31	22.23	22.8	22.22	22.14	
			50	0	21.96	21.89	21.57	21.87	21.8	21.48	
		DFT-s QPSK	1	1	22.64	22.3	22.41	22.55	22.21	22.32	
			1	50	22.59	22.28	22.12	22.5	22.19	22.03	
			25	12	22.45	22.18	22.21	22.36	22.09	22.12	
			50	0	21.93	21.74	21.56	21.84	21.65	21.47	
		DFT-s 16QAM	1	1	20.78	20.9	20.71	20.69	20.81	20.62	
		DFT-s 64QAM	1	1	19.56	19.49	19.52	19.47	19.4	19.43	
		DFT-s 256QAM	1	1	18.64	18.79	18.37	18.55	18.7	18.28	
		CP QPSK	1	1	21.56	21.3	20.92	21.47	21.21	20.83	
		CP 16QAM	1	1	20.45	20.86	20.9	20.36	20.77	20.81	
		CP 64QAM	1	1	19.71	19.13	19.56	19.62	19.04	19.47	
		CP 256QAM	1	1	16.59	16.34	16.94	16.5	16.25	16.85	

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n66 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		343500	349000	354500	343500	349000		354500
			Frequency (MHz)		1717.5	1745	1772.5	1717.5	1745		1772.5
15	15	DFT-s PI/2 BPSK	1	1	22.78	22.47	22.57	22.69	22.38	22.48	30
			1	77	22.73	22.45	22.17	22.64	22.36	22.08	
			36	18	22.62	22.25	22.37	22.53	22.16	22.28	
			75	0	22.21	21.98	21.74	22.12	21.89	21.65	
		DFT-s QPSK	1	1	22.56	22.33	22.48	22.47	22.24	22.39	
			1	77	22.48	22.22	22.35	22.39	22.13	22.26	
			36	18	22.51	22.28	22.39	22.42	22.19	22.3	
			75	0	21.42	21.34	21.41	21.33	21.25	21.32	
		DFT-s 16QAM	1	1	21.94	21.1	21.96	21.85	21.01	21.87	
		DFT-s 64QAM	1	1	20.56	20.27	20.01	20.47	20.18	19.92	
		DFT-s 256QAM	1	1	18.54	18.5	18.42	18.45	18.41	18.33	
		CP QPSK	1	1	22.41	22.27	22.42	22.32	22.18	22.33	
		CP 16QAM	1	1	20.42	20.64	20.72	20.33	20.55	20.63	
		CP 64QAM	1	1	19.21	19.07	19.27	19.12	18.98	19.18	
		CP 256QAM	1	1	16.45	16.58	16.63	16.36	16.49	16.54	
n66 Maximum Average Power (dBm)							EIRP (dBm)			EIRP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		344000	349000	354000	344000	349000		354000
			Frequency (MHz)		1720	1745	1770	1720	1745		1770
20	15	DFT-s PI/2 BPSK	1	1	22.87	22.61	22.69	22.78	22.52	22.6	30
			1	104	22.76	22.48	22.64	22.67	22.39	22.55	
			50	25	22.69	22.54	22.59	22.6	22.45	22.5	
			100	0	22.34	22.59	22.56	22.25	22.5	22.47	
		DFT-s QPSK	1	1	22.77	22.54	22.62	22.68	22.45	22.53	
			1	104	22.75	22.57	22.66	22.66	22.48	22.57	
			50	25	22.71	22.52	22.61	22.62	22.43	22.52	
			100	0	21.71	21.5	21.64	21.62	21.41	21.55	
		DFT-s 16QAM	1	1	21.65	21.49	21.59	21.56	21.4	21.5	
		DFT-s 64QAM	1	1	20.27	20.06	20.09	20.18	19.97	20	
		DFT-s 256QAM	1	1	18.26	18.08	18.04	18.17	17.99	17.95	
		CP QPSK	1	1	22.96	21.28	21.25	22.87	21.19	21.16	
		CP 16QAM	1	1	20.04	20.77	20.77	19.95	20.68	20.68	
		CP 64QAM	1	1	19.12	18.77	19.03	19.03	18.68	18.94	
		CP 256QAM	1	1	16.25	16.3	16.08	16.16	16.21	15.99	

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Antenna gain : -2.8

n71 Maximum Average Power (dBm)							ERP (dBm)			ERP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		133100	136100	139100	133100	136100		139100
			Frequency (MHz)		665.5	680.5	695.5	665.5	680.5	695.5	
5	15	DFT-s PI/2 BPSK	1	1	23.05	22.47	22.36	18.1	17.52	17.41	
			1	23	23.03	22.23	22.15	18.08	17.28	17.2	
			12	6	22.97	22.41	22.23	18.02	17.46	17.28	
			25	0	22.05	21.69	21.34	17.1	16.74	16.39	
		DFT-s QPSK	1	1	22.87	22.34	22.31	17.92	17.39	17.36	
			1	23	22.75	22.23	22.21	17.8	17.28	17.26	
			12	6	22.79	22.35	22.29	17.84	17.4	17.34	
			25	0	21.84	21.31	21.35	16.89	16.36	16.4	
		DFT-s 16QAM	1	1	21.12	21.45	20.97	16.17	16.5	16.02	
		DFT-s 64QAM	1	1	19.98	19.55	19.86	15.03	14.6	14.91	
		DFT-s 256QAM	1	1	17.81	17.77	17.67	12.86	12.82	12.72	
		CP QPSK	1	1	22.16	21.68	21.53	17.21	16.73	16.58	
		CP 16QAM	1	1	20.88	20.84	20.77	15.93	15.89	15.82	
		CP 64QAM	1	1	19.66	19.8	19.49	14.71	14.85	14.54	
		CP 256QAM	1	1	17.43	16.9	16.32	12.48	11.95	11.37	
n71 Maximum Average Power (dBm)							ERP (dBm)			ERP Limit	
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid		High
			Channel		133600	136100	138600	133600	136100		138600
			Frequency (MHz)		668	680.5	693	668	680.5	693	
10	15	DFT-s PI/2 BPSK	1	1	23.1	22.82	22.87	18.15	17.87	17.92	
			1	50	22.89	22.67	22.73	17.94	17.72	17.78	
			25	12	23.08	22.73	22.64	18.13	17.78	17.69	
			50	0	22.09	22.03	21.89	17.14	17.08	16.94	
		DFT-s QPSK	1	1	23.09	22.35	22.53	18.14	17.4	17.58	
			1	50	22.88	22.48	22.47	17.93	17.53	17.52	
			25	12	23.17	22.51	22.34	18.22	17.56	17.39	
			50	0	22.01	21.71	21.81	17.06	16.76	16.86	
		DFT-s 16QAM	1	1	21.12	21.1	20.97	16.17	16.15	16.02	
		DFT-s 64QAM	1	1	19.89	19.77	19.34	14.94	14.82	14.39	
		DFT-s 256QAM	1	1	17.64	17.46	17.23	12.69	12.51	12.28	
		CP QPSK	1	1	21.83	21.54	21.51	16.88	16.59	16.56	
		CP 16QAM	1	1	21.12	20.82	21.33	16.17	15.87	16.38	
		CP 64QAM	1	1	19.58	19.31	20.02	14.63	14.36	15.07	
		CP 256QAM	1	1	16.99	16.54	16.47	12.04	11.59	11.52	

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n71 Maximum Average Power (dBm)								ERP (dBm)			ERP Limit
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid	High	
			Channel		134100	136100	138100	134100	136100	138100	
			Frequency (MHz)		670.5	680.5	690.5	670.5	680.5	690.5	
15	15	DFT-s PI/2 BPSK	1	1	23.01	22.84	22.96	18.06	17.89	18.01	34.77
			1	77	22.97	22.63	22.85	18.02	17.68	17.9	
			36	18	23.01	22.75	22.68	18.06	17.8	17.73	
			75	0	22.12	21.83	21.97	17.17	16.88	17.02	
		DFT-s QPSK	1	1	22.98	22.74	22.65	18.03	17.79	17.7	
			1	77	22.95	22.58	22.47	18	17.63	17.52	
			36	18	22.99	22.64	22.56	18.04	17.69	17.61	
			75	0	22.21	21.89	21.68	17.26	16.94	16.73	
		DFT-s 16QAM	1	1	21.32	21.13	21.3	16.37	16.18	16.35	
		DFT-s 64QAM	1	1	19.64	19.45	19.48	14.69	14.5	14.53	
		DFT-s 256QAM	1	1	17.83	17.65	17.12	12.88	12.7	12.17	
		CP QPSK	1	1	21.32	21.4	21.59	16.37	16.45	16.64	
		CP 16QAM	1	1	21.22	21.12	20.85	16.27	16.17	15.9	
		CP 64QAM	1	1	19.45	19.47	19.85	14.5	14.52	14.9	
		CP 256QAM	1	1	17.14	16.65	16.81	12.19	11.7	11.86	
n71 Maximum Average Power (dBm)								ERP (dBm)			ERP Limit
BW(MHz)	SCS(kHz)	Mod	RB Size	RB Offset	Low	Mid	High	Low	Mid	High	
			Channel		134600	136100	137500	134600	136100	137500	
			Frequency (MHz)		673	680.5	688	673	680.5	688	
20	15	DFT-s PI/2 BPSK	1	1	23.21	22.86	22.98	18.26	17.91	18.03	34.77
			1	104	23.02	22.61	22.65	18.07	17.66	17.7	
			50	25	23.06	22.59	22.59	18.11	17.64	17.64	
			100	0	22.03	21.74	21.89	17.08	16.79	16.94	
		DFT-s QPSK	1	1	23.2	22.46	22.55	18.25	17.51	17.6	
			1	104	23	22.61	22.5	18.05	17.66	17.55	
			50	25	23.05	22.59	22.47	18.1	17.64	17.52	
			100	0	22.02	21.71	21.76	17.07	16.76	16.81	
		DFT-s 16QAM	1	1	22.75	22.03	21.96	17.8	17.08	17.01	
		DFT-s 64QAM	1	1	19.87	19.49	19.98	14.92	14.54	15.03	
		DFT-s 256QAM	1	1	16.84	16.58	16.83	11.89	11.63	11.88	
		CP QPSK	1	1	21.76	21.62	21.55	16.81	16.67	16.6	
		CP 16QAM	1	1	21.23	21.06	21.19	16.28	16.11	16.24	
		CP 64QAM	1	1	19.47	19.5	19.32	14.52	14.55	14.37	
		CP 256QAM	1	1	16.58	16.66	16.6	11.63	11.71	11.65	

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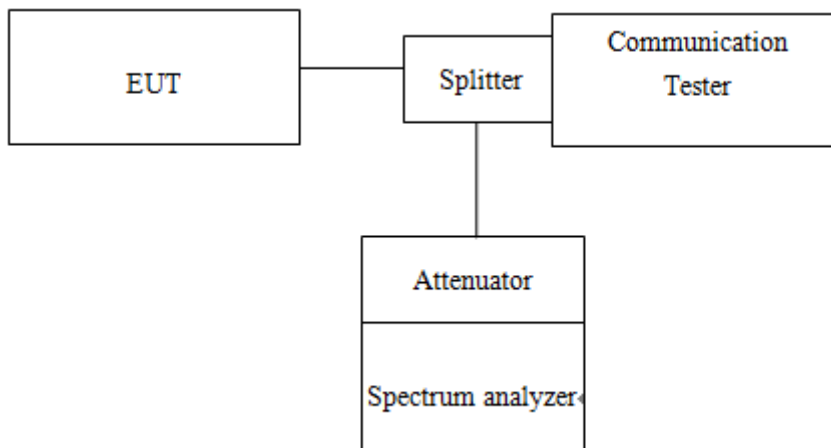
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7 OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

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.

7.2 Test Set-up



7.3 Measurement Procedure

99% & 26dB Bandwidth with detector peak

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

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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7.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/19/2020	11/18/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/22/2020	12/21/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBDA	RFLT2W1G1 8G	18112200202	12/16/2020	12/15/2021

7.5 Measurement Result

NR BAND 2 Channel bandwidth: 5MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1852.5	370500	4.5156	4.4763	4.4978	4.5079	4.5099	4.993	4.967	4.986	4.973	4.953
1880.0	376000	4.5107	4.4815	4.5040	4.5016	4.5031	4.994	4.945	4.993	5.002	4.957
1907.5	381500	4.4972	4.5018	4.4800	4.8310	4.4993	4.953	4.933	4.978	4.972	4.989
NR BAND 2 Channel bandwidth: 10MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1855.0	371000	8.9594	8.9708	8.9651	8.9910	8.9594	9.674	9.600	9.568	9.646	9.588
1880.0	376000	8.9701	8.9709	8.9796	8.9716	8.9559	9.646	9.608	9.551	9.597	9.625
1905.0	381000	8.9691	8.9689	8.9864	8.9604	8.9973	9.538	9.640	9.651	9.514	9.545
NR BAND 2 Channel bandwidth: 15MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1857.5	371500	13.450	13.463	13.450	13.473	13.472	14.26	14.33	14.25	14.36	14.26
1880.0	376000	13.436	13.488	13.492	13.464	13.475	14.39	14.24	14.35	14.30	14.25
1902.5	380500	13.495	13.483	13.496	13.496	13.481	14.33	14.34	14.29	14.37	14.36
NR BAND 2 Channel bandwidth: 20MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1860.0	372000	17.889	17.916	17.894	17.897	17.908	18.99	18.94	19.00	19.01	18.96
1880.0	376000	17.915	17.929	17.910	17.900	17.894	18.85	19.01	18.96	18.97	18.96
1900.0	380000	17.990	17.939	17.952	17.954	17.958	19.04	18.93	18.84	19.02	19.02

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NR BAND 5 Channel bandwidth: 5MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
826.5	165300	4.4828	4.4985	4.5121	4.4946	4.4920	5.000	5.002	4.984	4.953	4.987
836.5	167300	4.4870	4.4932	4.4815	4.4996	4.4960	4.949	4.919	4.948	4.947	4.978
846.5	169300	4.4970	4.4940	4.4999	4.4863	4.4893	4.901	4.977	4.905	4.993	4.975
NR BAND 5 Channel bandwidth: 10MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
829.0	165800	8.9843	8.9707	8.9864	8.9658	8.9784	9.590	9.736	9.644	9.673	9.574
836.5	167300	9.6430	8.9552	8.9588	8.9714	8.9708	8.956	9.577	9.588	9.623	9.529
844.0	168800	8.9864	9.0081	8.9722	8.9705	8.9970	9.668	9.700	9.631	9.593	9.618
NR BAND 5 Channel bandwidth: 15MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
831.5	166300	13.511	13.483	13.481	13.480	13.512	14.31	14.41	14.33	14.33	14.31
836.5	167300	13.425	13.431	1.442	13.464	13.468	14.36	14.32	14.32	14.39	14.27
841.5	168300	13.469	13.476	13.450	13.488	13.471	14.30	14.33	14.33	14.26	14.20
NR BAND 5 Channel bandwidth: 20MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
834.0	166800	17.892	17.897	17.905	17.889	17.892	18.87	18.95	18.97	18.96	18.88
836.5	167300	17.870	17.845	17.927	17.904	17.877	18.91	18.94	18.99	18.92	18.94
839.0	167800	17.857	17.873	17.874	17.859	17.846	18.90	18.87	18.93	18.93	18.90

NR BAND 7 Channel bandwidth: 5MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
2502.5	500500	4.5049	4.4888	4.4982	4.4933	4.4905	4.922	4.989	5.036	5.035	4.994
2535.0	507000	4.5061	4.9570	4.4925	4.4875	4.4794	4.922	4.488	4.966	5.023	4.972
2567.5	513500	4.4853	4.4777	4.4890	4.4961	4.4922	4.979	5.033	5.005	4.947	4.974
NR BAND 7 Channel bandwidth: 10MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
2505.0	501000	8.9987	8.9959	8.9761	8.9745	8.9787	9.654	9.680	9.650	9.696	9.669
2535.0	507000	8.9773	8.9765	8.9900	8.9850	8.9588	9.717	9.659	9.563	9.653	9.598
2565.0	513000	8.9753	9.0083	8.9643	8.9935	8.9730	9.652	9.631	9.666	9.730	9.682

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NR BAND 7 Channel bandwidth: 15MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
2507.5	501500	13.485	13.483	13.475	13.469	13.450	14.43	14.38	14.26	14.35	14.31
2535.0	507000	13.464	13.468	13.453	13.469	13.456	14.33	14.31	14.23	14.42	14.25
2562.5	512500	13.448	13.502	13.445	13.467	13.490	14.39	14.32	14.37	14.36	14.32

NR BAND 12 Channel bandwidth: 5MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
701.5	140300	4.4727	4.4821	4.4901	4.4912	4.4823	4.880	4.994	4.992	4.938	4.985
707.5	141500	4.4996	4.4756	4.4884	4.4804	4.4754	4.967	4.885	4.955	4.956	5.014
713.5	142700	4.4884	4.4915	4.5044	4.4948	4.5133	4.981	5.001	5.002	4.956	4.872

NR BAND 12 Channel bandwidth: 10MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
704.0	140800	8.9617	8.9815	8.9672	8.9681	8.9678	9.549	9.734	9.600	9.656	9.596
707.5	141500	8.9714	8.9569	8.9527	8.9885	8.9582	9.531	9.669	9.706	9.606	9.641
711.0	142200	8.9663	8.9674	8.9717	8.9757	8.9615	9.594	9.701	9.526	9.591	9.603

NR BAND 12 Channel bandwidth: 15MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
706.5	141300	13.472	13.475	13.453	13.451	13.506	14.30	14.22	14.24	13.46	14.27
707.5	141500	13.452	13.477	13.436	13.483	13.483	14.30	14.29	14.33	14.33	14.31
708.5	141700	13.426	13.457	13.465	14.330	13.438	14.36	14.29	14.35	14.35	14.33

NR BAND 25 Channel bandwidth: 5MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1852.5	370500	4.4884	4.5016	4.4935	4.5121	4.4896	4.904	4.992	4.936	4.958	4.989
1882.5	376500	4.4973	4.4813	4.4978	4.5015	4.4706	4.973	4.984	4.901	4.981	4.946
1912.5	382500	4.4975	4.4947	4.5166	4.4896	4.4929	4.989	4.981	4.994	4.967	4.893

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NR BAND 25 Channel bandwidth: 10MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1855.0	371000	8.9696	8.9777	8.9484	8.9707	8.9671	9.506	9.606	9.614	9.585	9.641
1882.5	376500	8.9850	8.9812	8.9668	8.9611	8.9640	9.628	9.596	9.616	9.628	9.609
1910.0	382000	8.9747	8.9537	8.9555	8.9877	9.0272	9.610	9.536	9.614	9.563	9.630
NR BAND 25 Channel bandwidth: 15MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1857.5	371500	13.460	13.489	13.481	13.467	13.480	14.29	14.30	14.37	14.28	14.30
1882.5	376500	13.470	13.446	12.458	13.500	13.453	14.29	14.41	14.34	14.30	14.28
1907.5	381500	13.447	13.453	13.476	13.464	13.472	14.34	14.31	14.36	14.36	14.44
NR BAND 25 Channel bandwidth: 20MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1860.0	372000	17.912	17.897	17.936	17.945	17.915	18.94	18.93	18.86	18.91	19.00
1882.5	376500	17.924	17.954	17.969	17.903	17.915	18.95	19.04	18.88	19.01	18.96
1905.0	381000	17.910	17.926	17.951	17.955	17.960	18.93	18.91	18.90	19.01	18.98

NR BAND 38 Channel bandwidth: 20MHz											
DFT-S-OFDM_SCS 30 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
2580.0	516000	17.8230	17.8640	17.8560	17.8250	17.8800	19.220	19.290	19.290	19.190	19.310
2595.0	519000	17.9010	17.7530	17.8600	17.8990	17.9040	19.370	19.460	19.300	19.330	19.360
2610.0	522000	17.9060	17.8480	17.9140	17.8770	17.8920	19.380	19.170	19.200	19.300	19.260
NR BAND 38 Channel bandwidth: 30MHz											
DFT-S-OFDM_SCS 30 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
2585.0	517000	26.8900	26.8510	26.8440	26.9200	26.8900	36.440	28.370	34.900	39.750	28.440
2595.0	519000	26.7830	26.8550	26.9340	26.8590	26.8580	28.060	28.140	39.150	37.520	28.300
2605.0	521000	26.7300	26.8550	26.9320	26.9170	26.9330	28.070	28.250	40.030	38.580	30.300
NR BAND 38 Channel bandwidth: 40MHz											
DFT-S-OFDM_SCS 30 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
2590.0	518000	35.761	35.726	35.816	35.890	35.750	37.46	37.32	48.57	48.92	42.13
2595.0	519000	35.766	35.797	35.802	35.812	35.861	37.48	37.40	39.68	43.15	43.48
2600.0	520000	35.789	35.806	35.778	35.786	35.790	37.48	37.29	59.03	38.76	41.81

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NR BAND 66 Channel bandwidth: 5MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1712.5	342500	4.4995	4.4874	4.4908	4.4917	4.4896	4.957	5.016	4.951	4.917	4.974
1745.0	349000	4.5065	4.4838	4.4797	4.4808	4.4905	4.946	4.997	4.930	4.913	4.969
1777.5	355500	4.4960	4.4979	4.4910	4.4945	4.5114	4.957	4.959	4.997	4.909	4.998
NR BAND 66 Channel bandwidth: 10MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1715.0	343000	8.9992	8.9653	8.9623	8.9300	8.9564	9.647	9.609	9.632	9.579	9.607
1745.0	349000	8.9799	8.9670	8.9594	8.9611	8.9815	9.716	9.599	9.609	9.598	9.620
1775.0	355000	8.9784	8.9844	8.9536	8.9612	8.9418	9.591	9.642	9.568	9.593	9.591
NR BAND 66 Channel bandwidth: 15MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1717.5	343500	13.460	13.473	13.435	13.466	13.446	14.35	14.36	14.34	14.27	14.25
1745.0	349000	13.458	13.473	13.493	13.454	13.435	14.28	14.37	14.39	14.29	14.32
1772.5	354500	13.439	13.445	13.464	13.439	13.446	14.33	14.41	14.26	14.37	14.36
NR BAND 66 Channel bandwidth: 20MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
1720.0	344000	17.846	17.878	17.905	17.898	17.897	18.83	18.93	18.98	18.92	18.89
1745.0	349000	17.876	17.876	17.898	17.887	17.874	18.94	18.95	18.93	18.90	18.98
1770.0	354000	17.932	17.958	17.920	17.890	17.885	19.09	18.89	18.86	18.87	18.98

NR BAND 71 Channel bandwidth: 5MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
665.5	133100	4.4863	4.5093	4.4885	4.4946	4.4955	4.996	4.988	5.001	4.995	4.956
680.5	136100	4.4870	4.5099	4.4858	4.4878	4.4891	4.950	5.012	4.994	4.936	4.997
695.5	139100	4.4808	4.4907	4.5052	4.4730	4.4861	4.990	5.029	4.955	5.007	4.968
NR BAND 71 Channel bandwidth: 10MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
668.0	133600	8.9688	8.9643	8.9547	8.9655	8.9615	9.560	9.583	9.584	9.640	9.625
680.5	136100	8.9713	8.9709	8.9780	8.9694	8.9815	9.636	9.605	9.623	9.590	9.695
693.0	138600	8.9718	8.9771	8.9723	8.9486	8.9867	9.670	9.541	9.636	9.587	9.574

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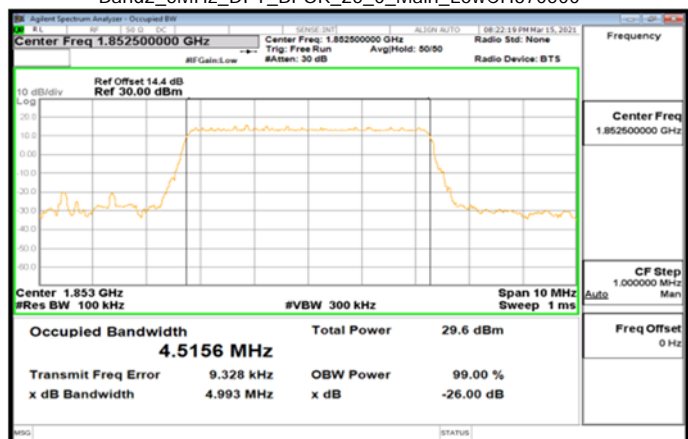
NR BAND 71 Channel bandwidth: 15MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
670.5	134100	13.417	13.444	13.446	13.437	13.416	14.27	14.21	14.28	14.25	14.25
680.5	136100	13.493	13.487	13.477	13.472	13.472	14.31	14.36	14.28	14.34	14.33
690.5	138100	13.437	13.464	13.434	13.451	13.447	14.32	14.23	14.24	14.29	14.20
NR BAND 71 Channel bandwidth: 20MHz											
DFT-S-OFDM_SCS 15 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
673.0	134600	17.846	17.840	17.798	17.758	17.803	18.87	18.84	18.84	18.88	18.83
680.5	136100	17.916	17.903	17.914	17.915	17.922	16.06	18.96	18.92	18.92	18.91
688.0	137500	17.852	17.909	17.931	17.890	17.926	18.94	18.94	18.83	18.89	18.91

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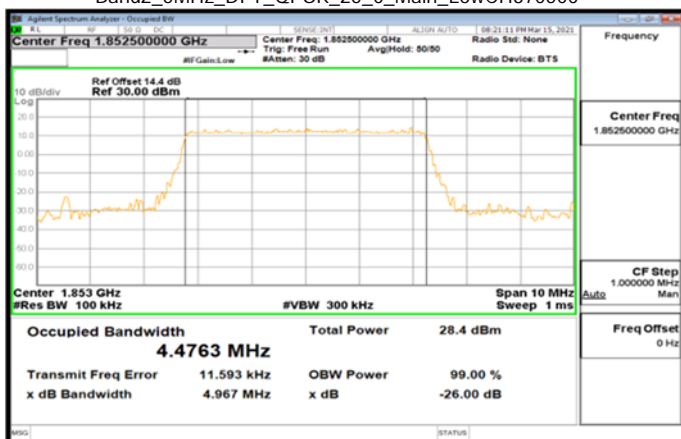
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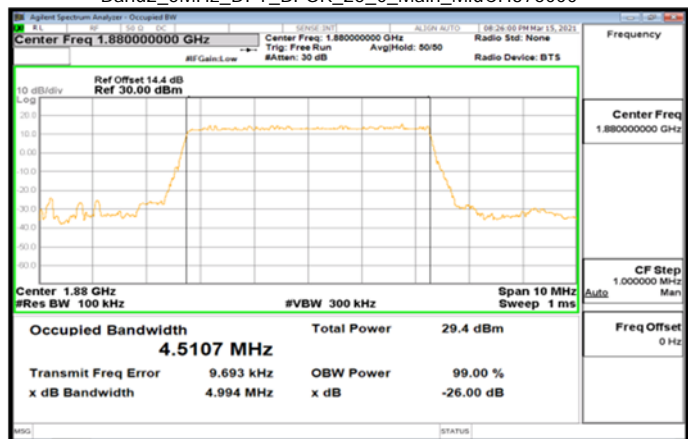
Band2_5MHz_DFT_BPSK_25_0_Main_LowCH370500



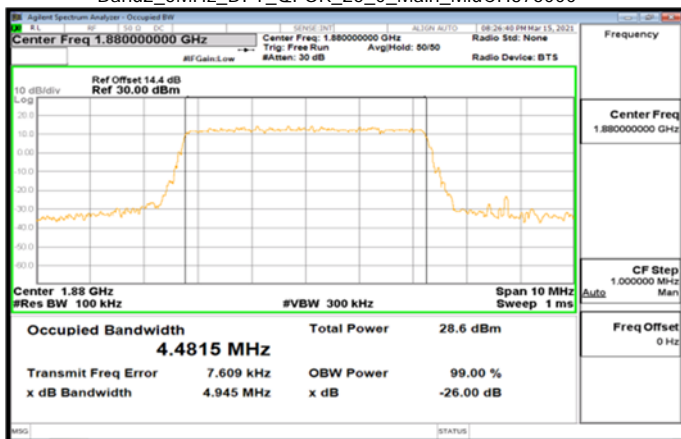
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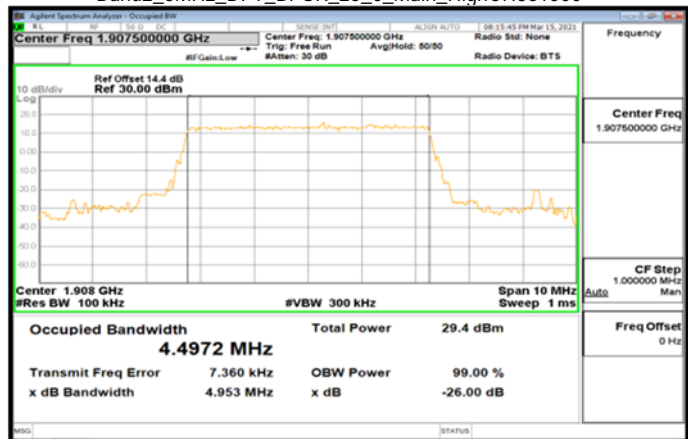
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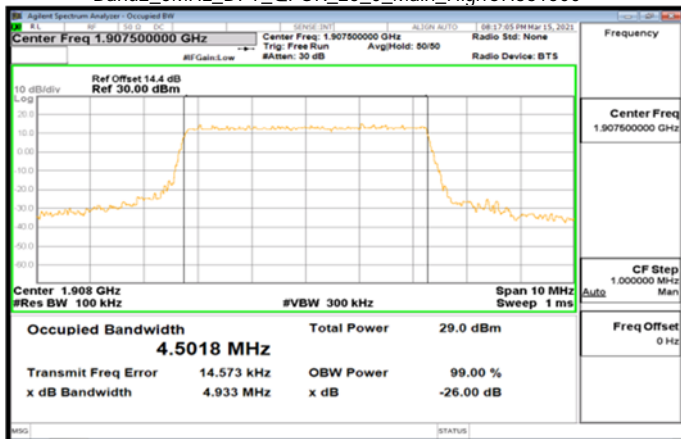
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Band2_5MHz_DFT_BPSK_25_0_Main_HighCH381500



Band2_5MHz_DFT_QPSK_25_0_Main_HighCH381500

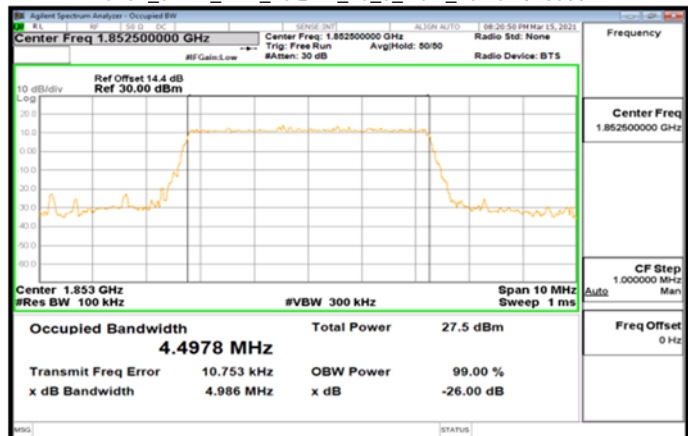


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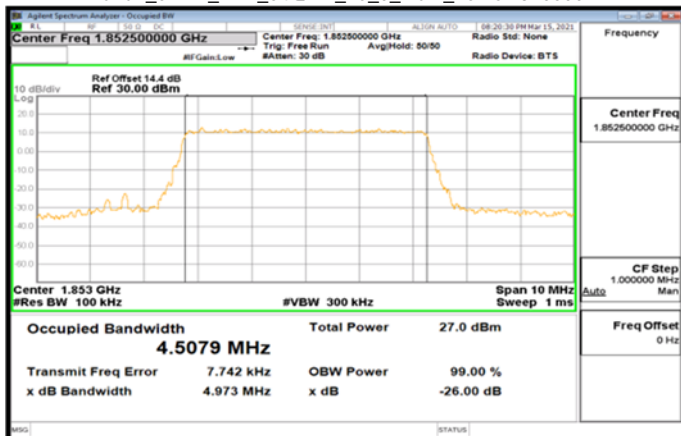
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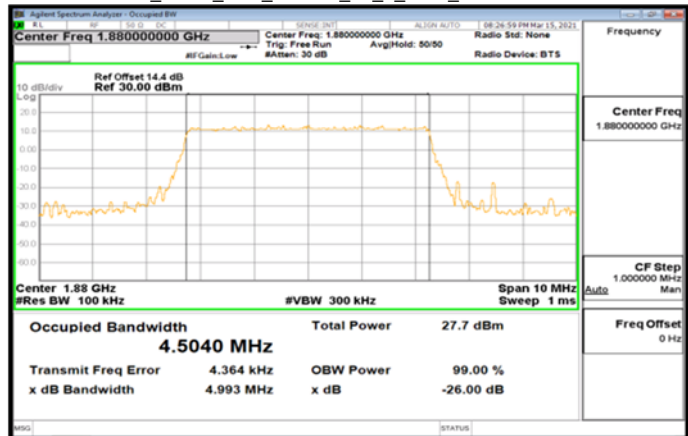
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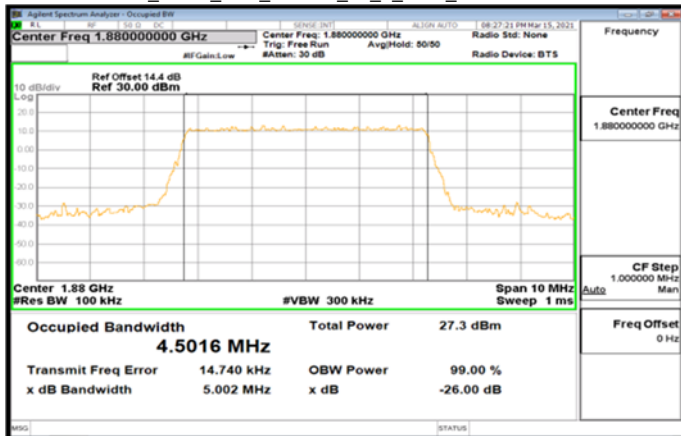
Band2_5MHz_DFT_64QAM_25_0_Main_LowCH370500



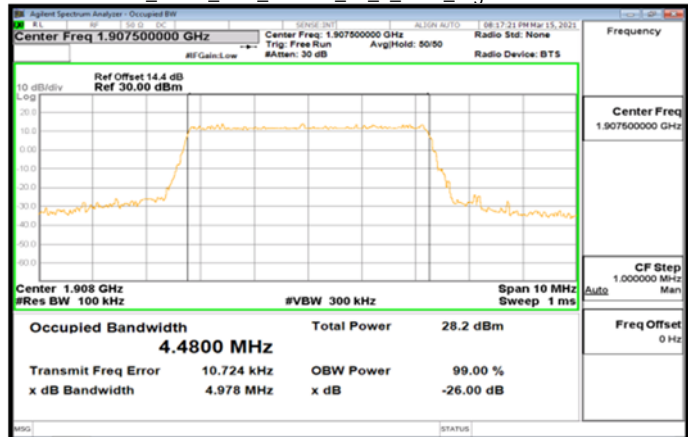
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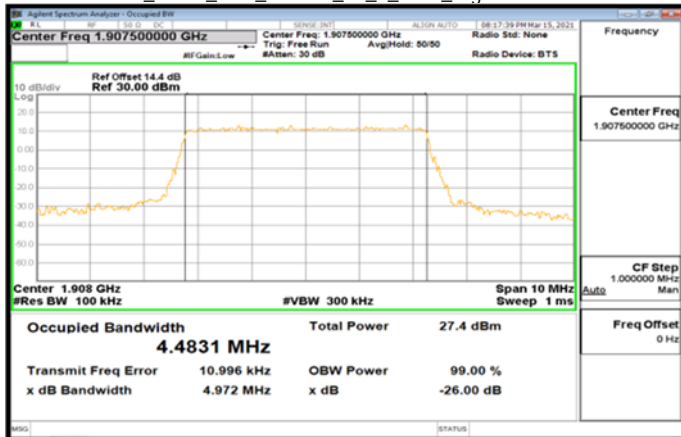
Band2_5MHz_DFT_64QAM_25_0_Main_MidCH376000



Band2_5MHz_DFT_16QAM_25_0_Main_HighCH381500



Band2_5MHz_DFT_64QAM_25_0_Main_HighCH381500

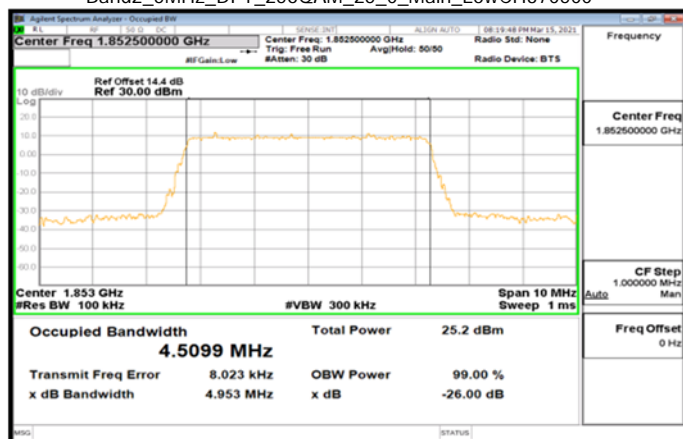


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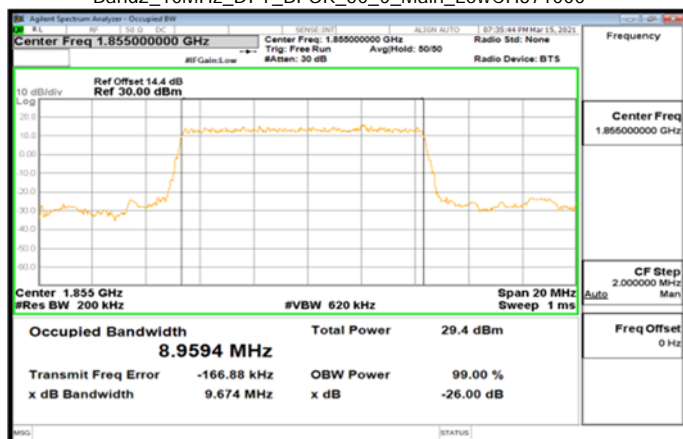
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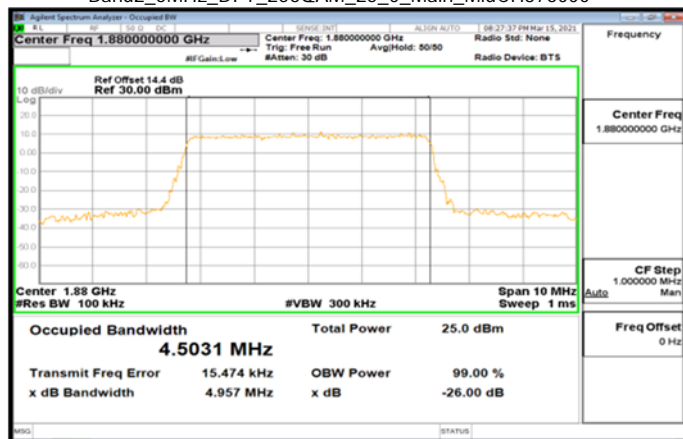
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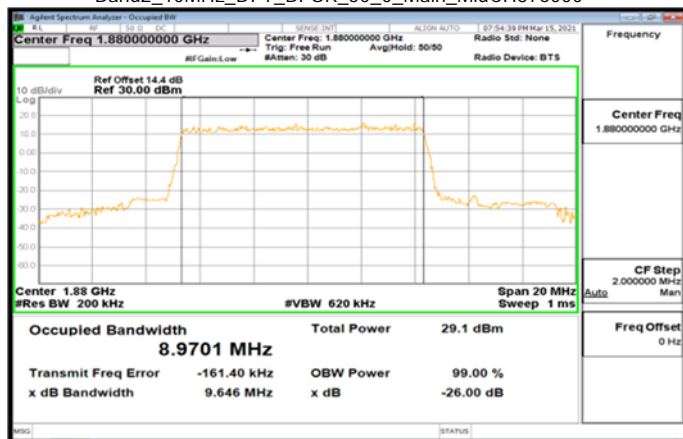
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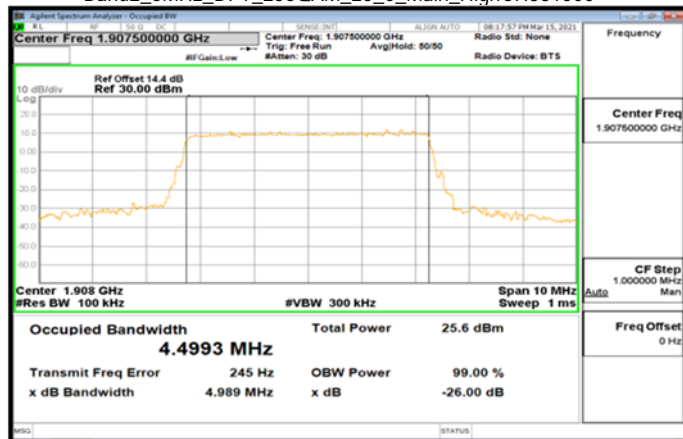
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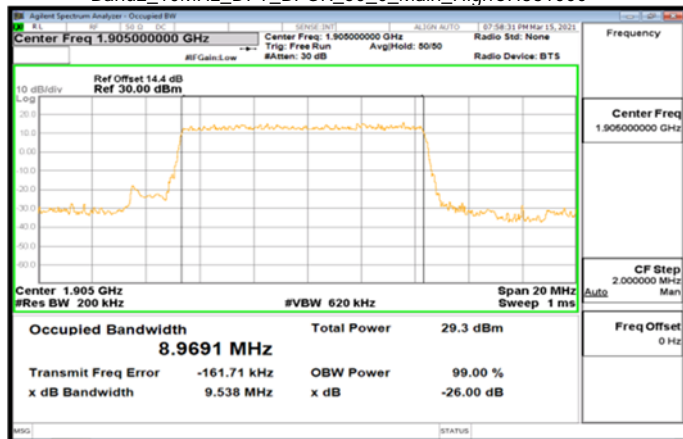
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Band2_10MHz_DFT_BPSK_50_0_Main_HighCH381000

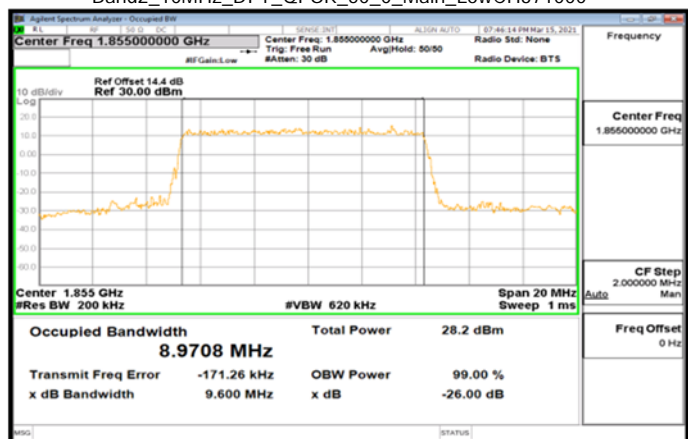


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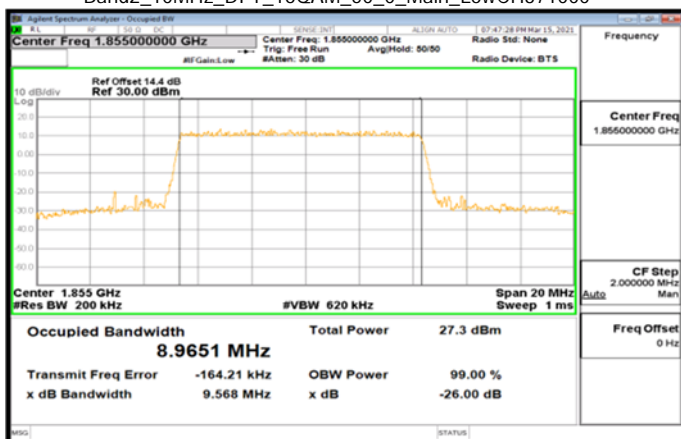
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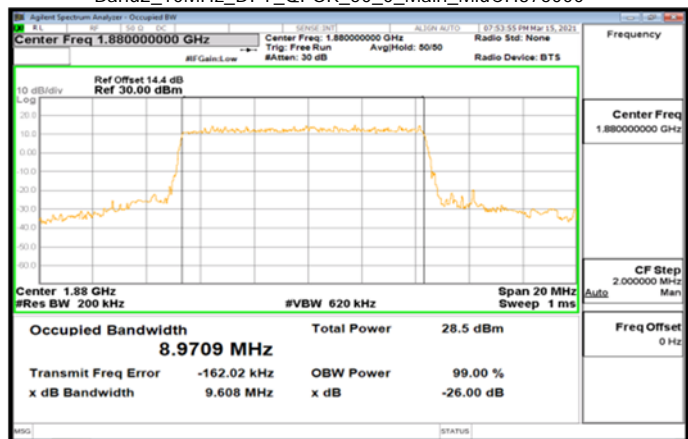
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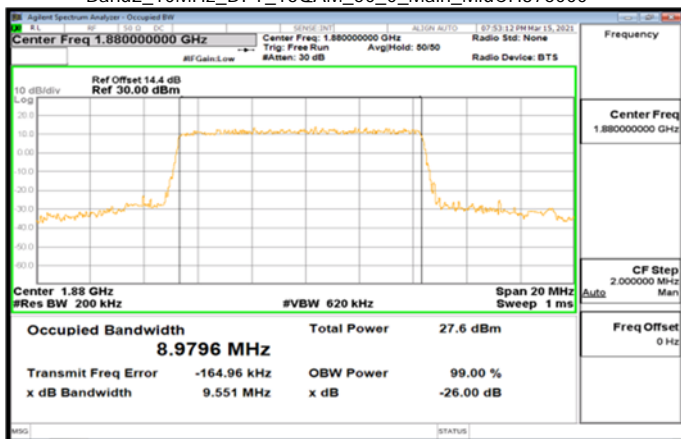
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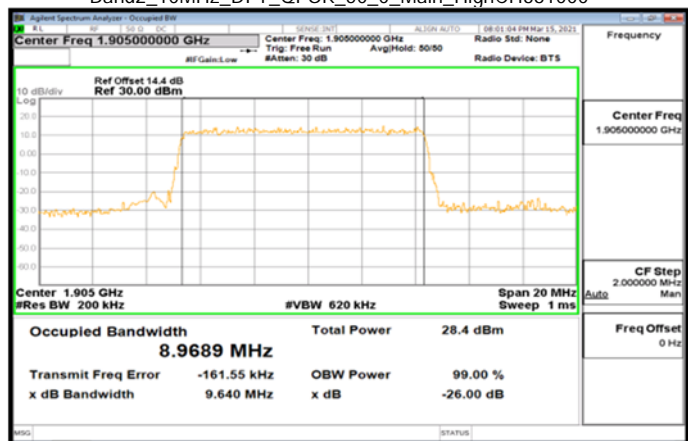
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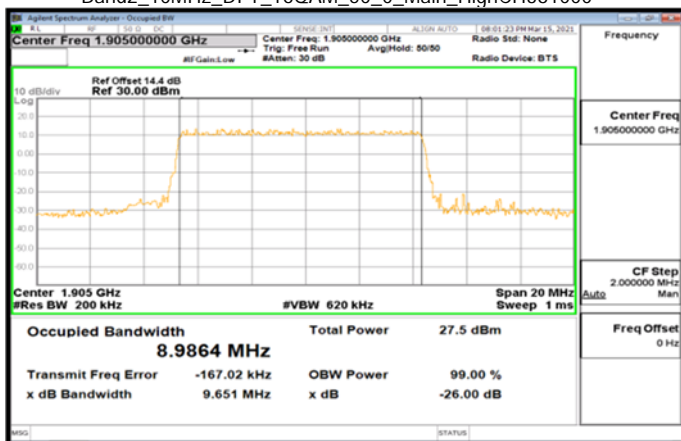
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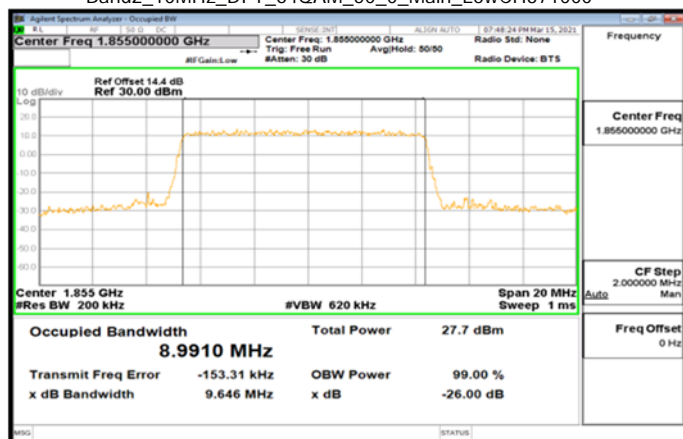


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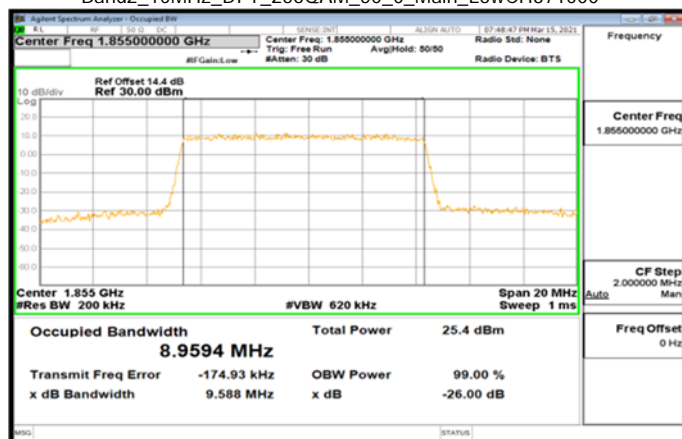
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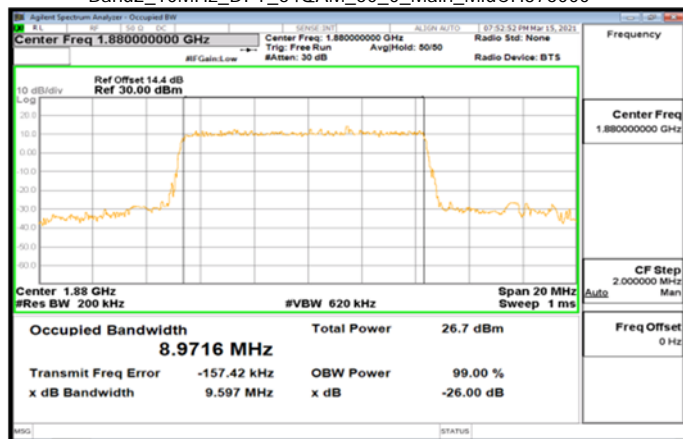
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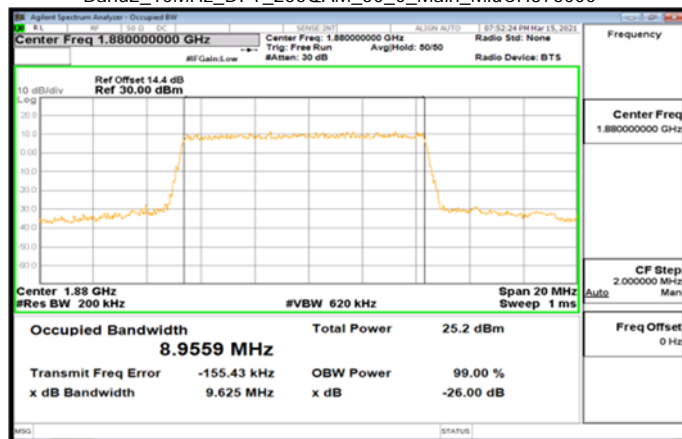
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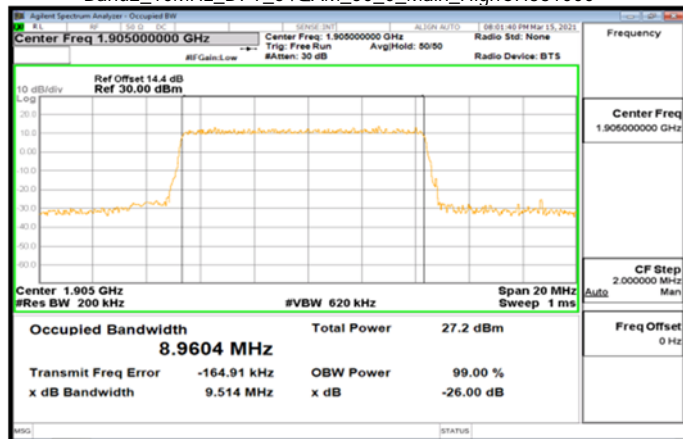
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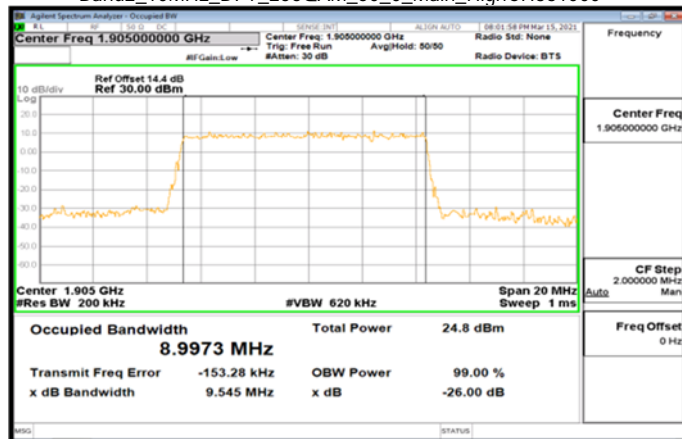
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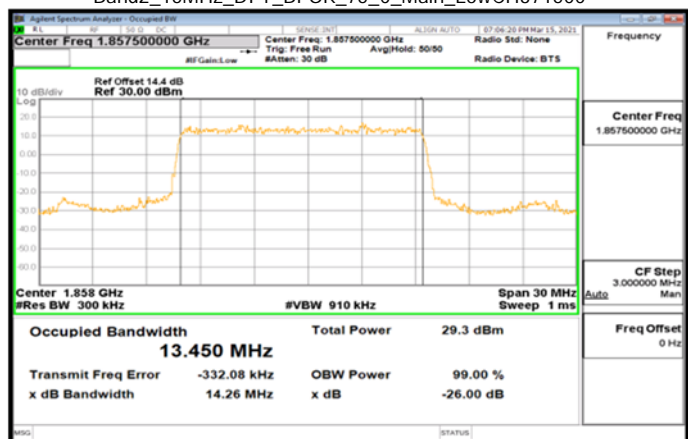


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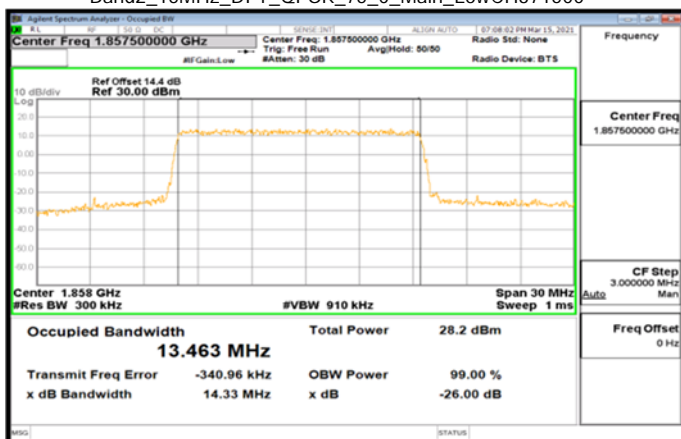
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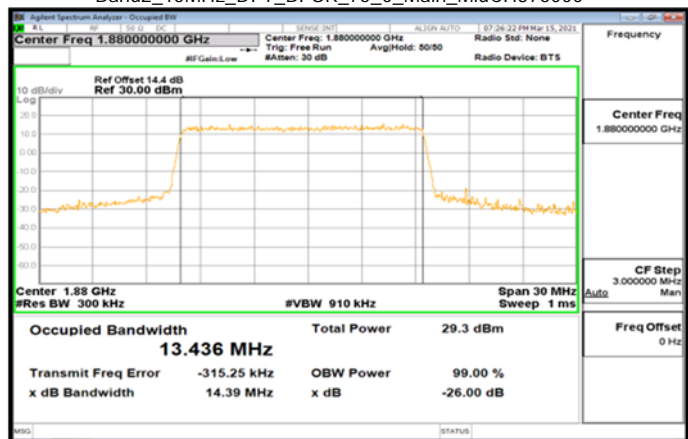
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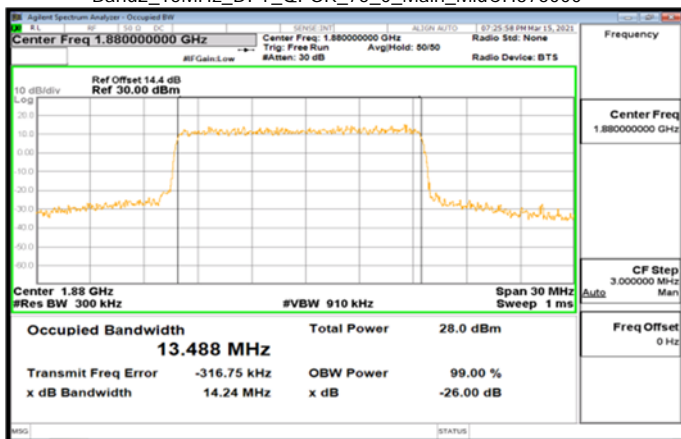
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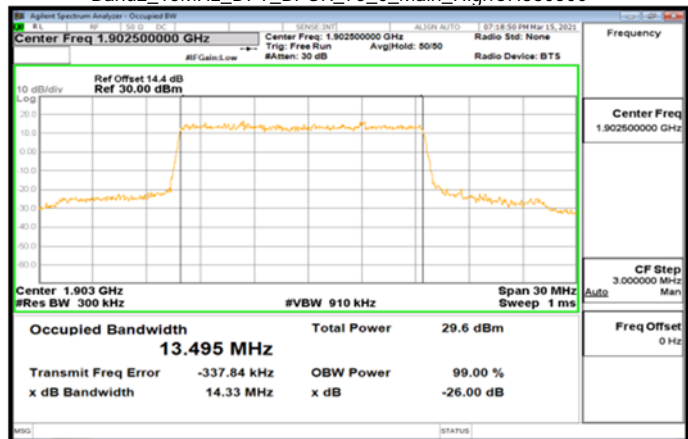
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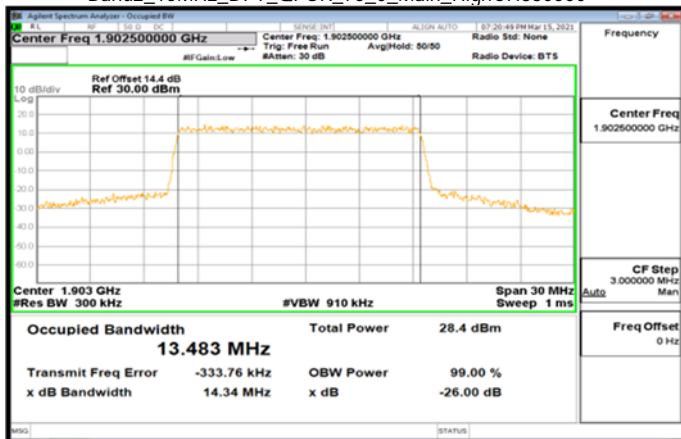
Band2_15MHz_DFT_QPSK_75_0_Main_MidCH376000



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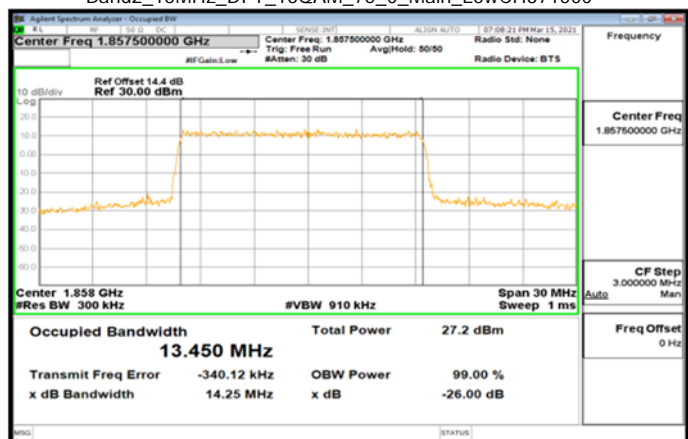


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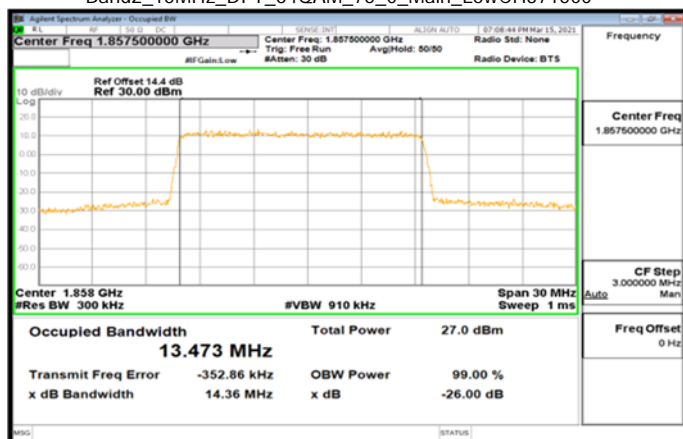
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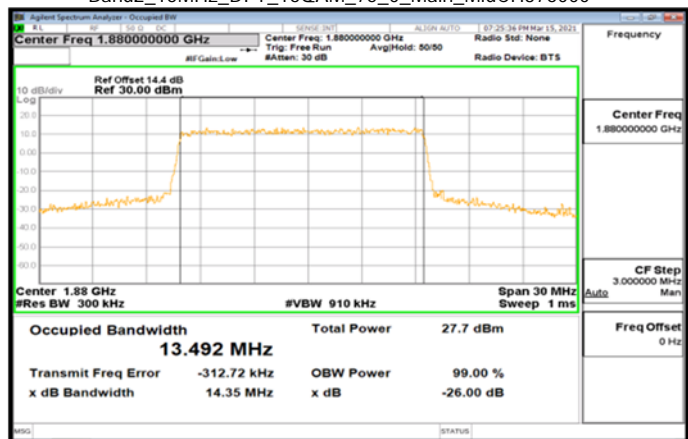
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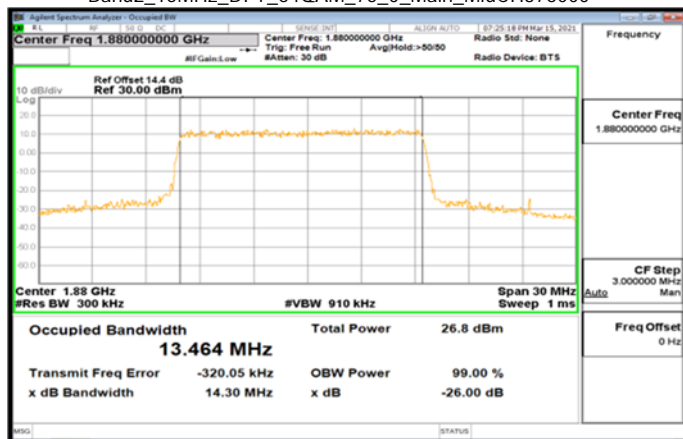
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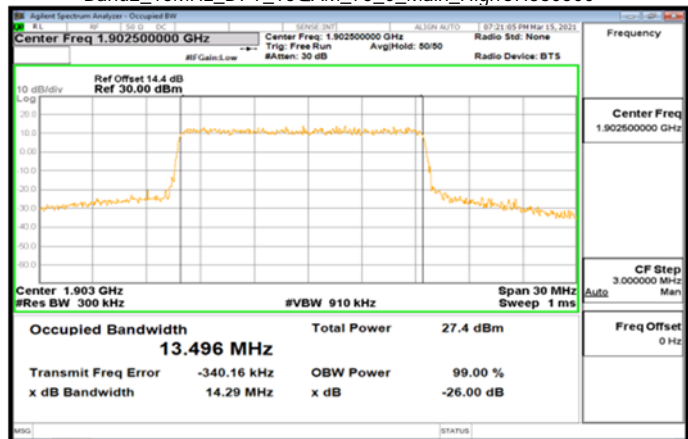
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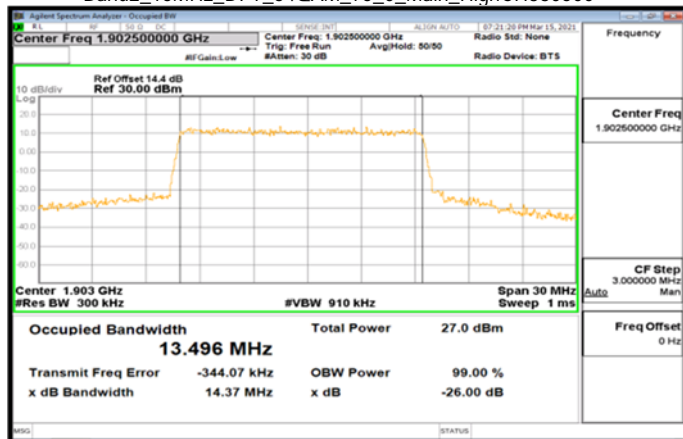
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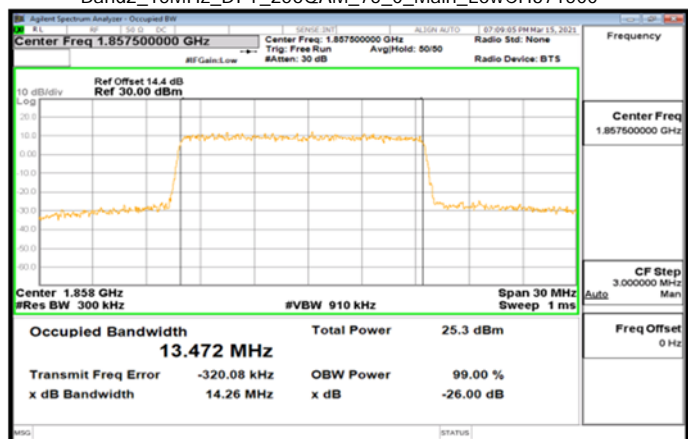


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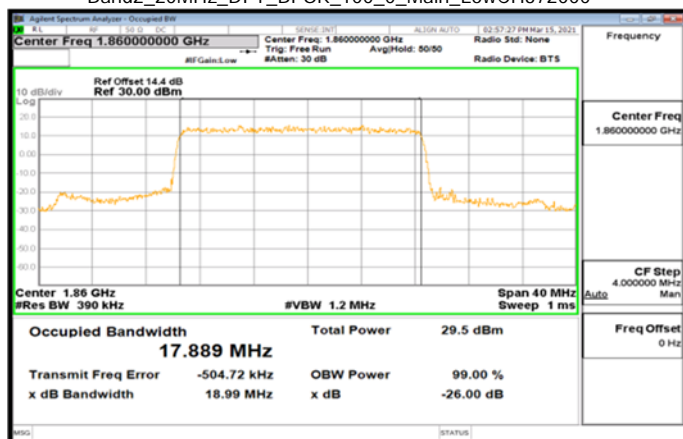
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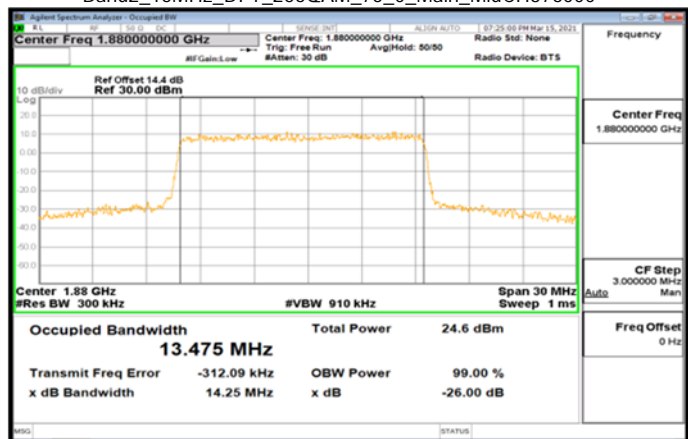
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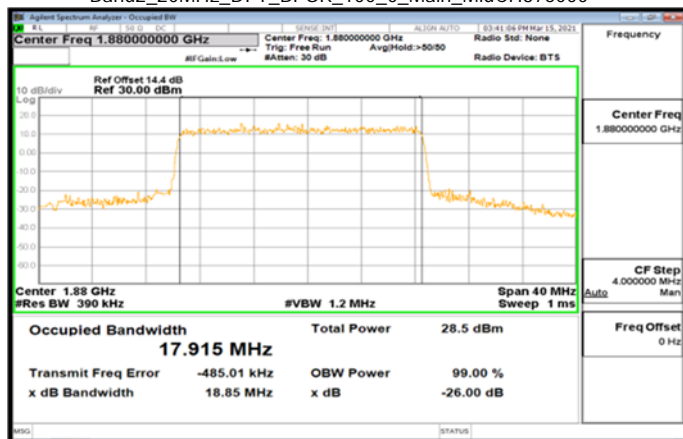
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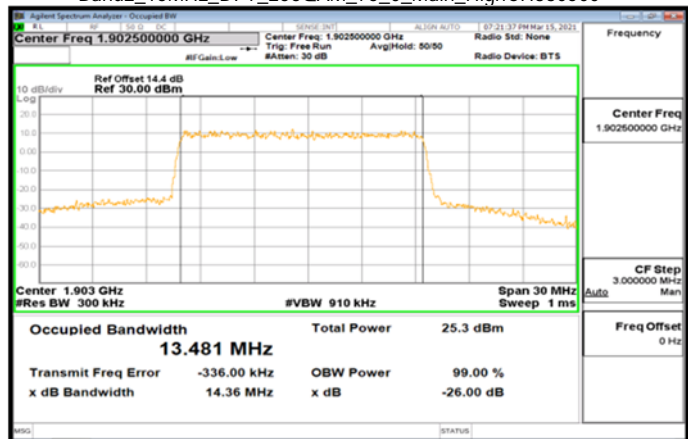
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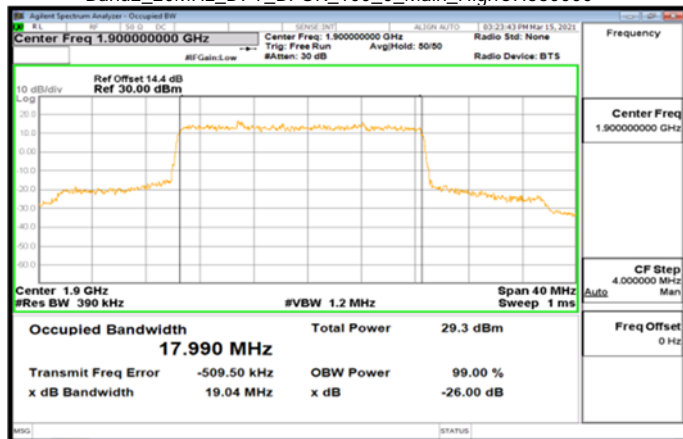
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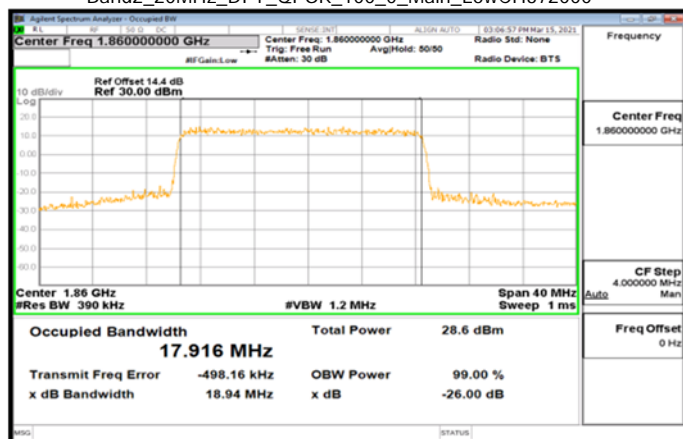


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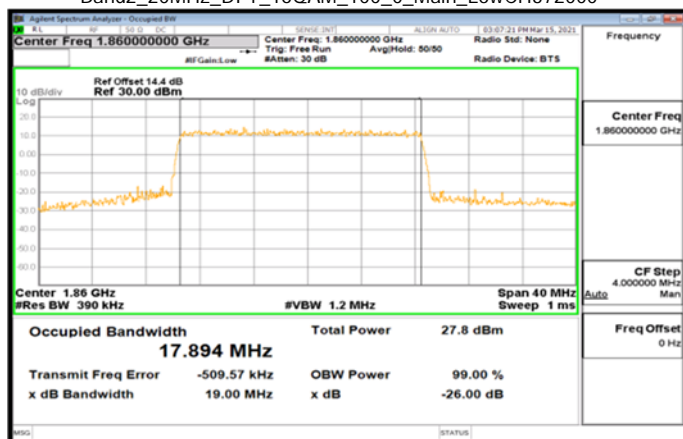
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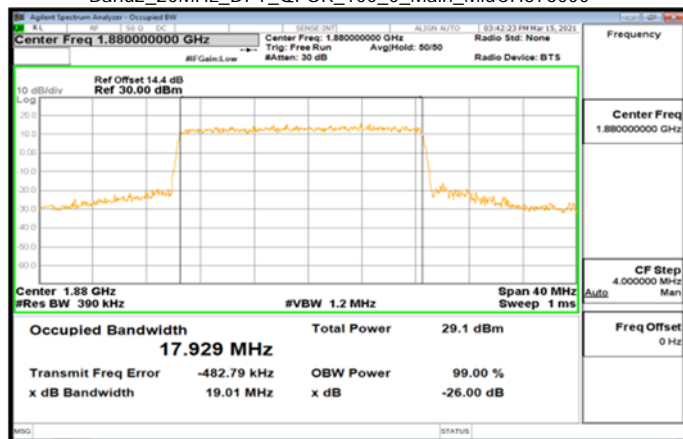
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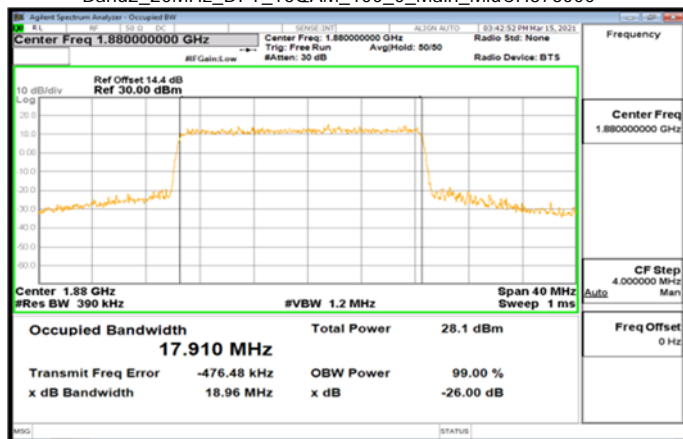
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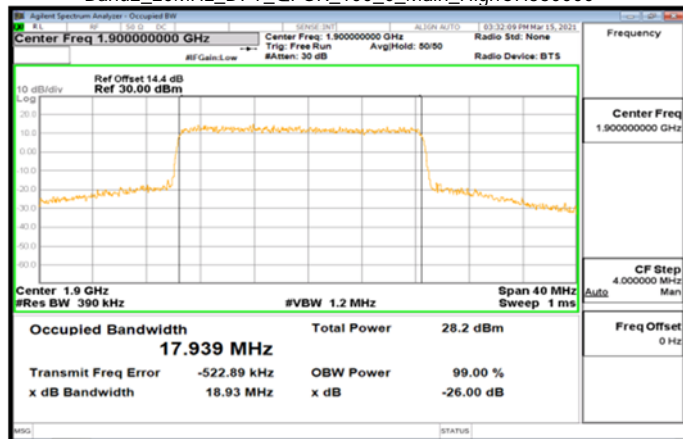
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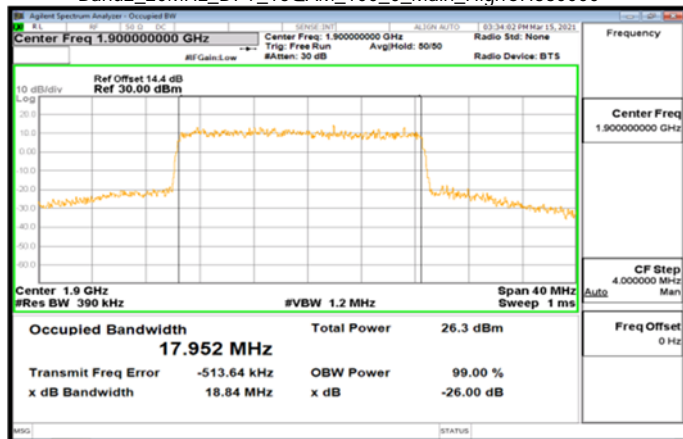
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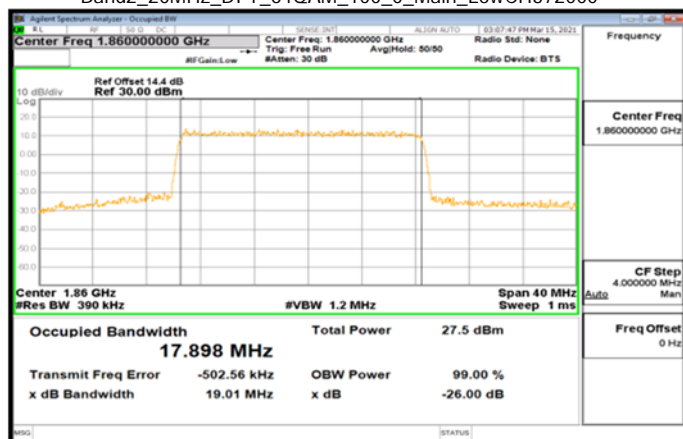


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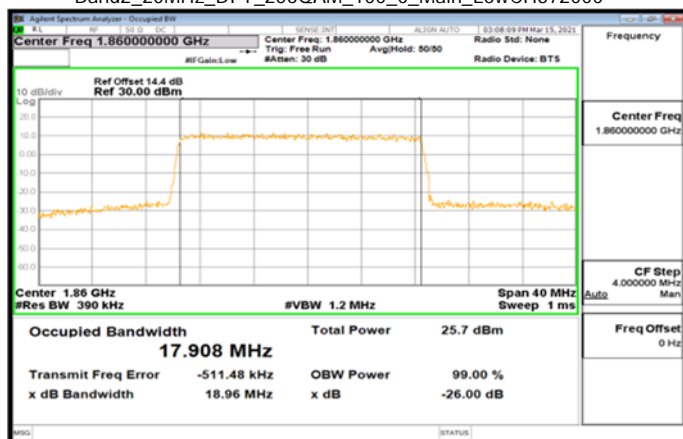
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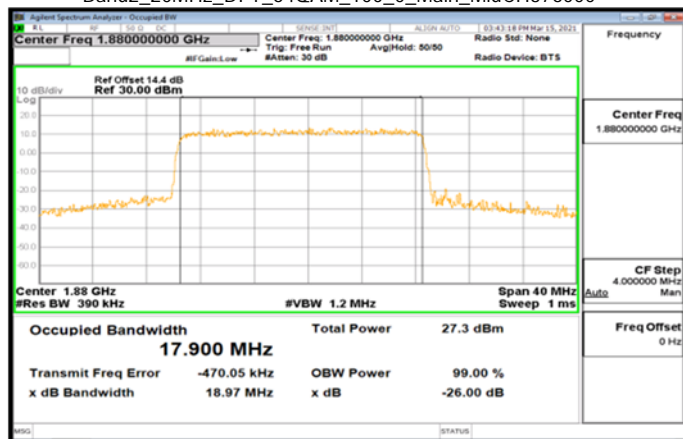
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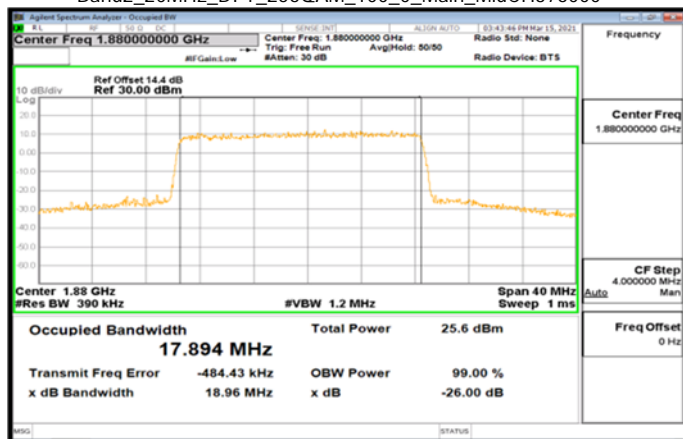
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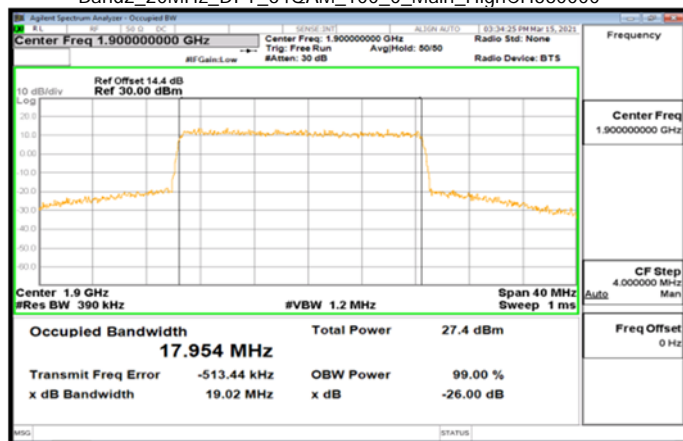
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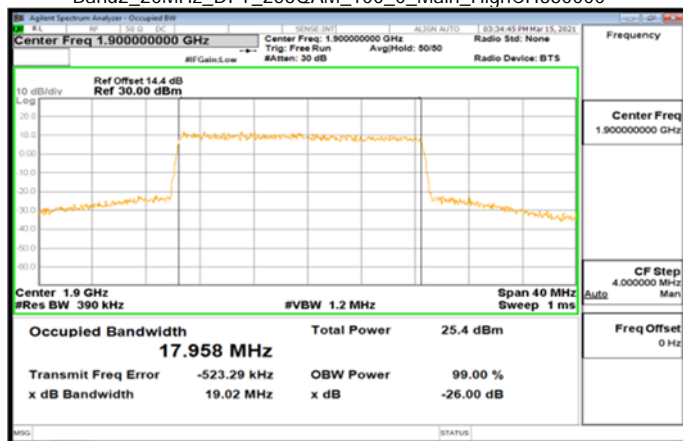
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Band2_20MHz_DFT_64QAM_100_0_Main_HighCH380000



Band2_20MHz_DFT_256QAM_100_0_Main_HighCH380000



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