TEST REPORT

APPLICANT	:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
PRODUCT NAME	:	Mobile Phone
MODEL NAME	:	RMX3363
BRAND NAME	:	realme
FCC ID	:	2AUYFRMX3363
STANDARD(S)	:	47 CFR Part 22, Subpart H 47 CFR Part 27, Subpart M&L
RECEIPT DATE	:	2021-06-08
TEST DATE	:	2021-06-09 to 2021-07-09
ISSUE DATE	:	2021-07-23

Edited by: Zhou Xiaolong (Rapporteur)

Approved by: Shen Junsheng (Supervisor)

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Change History		
Version	**Date**	**Reason for change**
1.0	2021-07-23	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Applicant Address:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing,China
Manufacturer:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
ManufacturerAddress:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing,China

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Phone	
Hardware Version:	11	
Software Version:	realme UI V2.0	
IMEI:	865240050019930	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM
	CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM
Operation Band:	N5, N7, N38, N41, N66	
Frequency Range:	N5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	N7	Tx: 2500MHz-2570MHz
		Rx: 2620MHz-2690MHz
	N38	Tx: 2570MHz-2620MHz
		Rx: 2570MHz-2620MHz
	N41	Tx: 2496MHz-2690MHz
		Rx: 2496MHz-2690MHz
	N66	Tx: 1710MHz-1780MHz
		Rx: 2110MHz-2180MHz
Channel Bandwidth	N5	5MHz, 10MHz, 15MHz, 20MHz
	N7	5MHz, 10MHz, 15MHz, 20MHz
	N38	20MHz, 40MHz
	N41	20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz

	N66	5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	Fixed Internal antenna	
Antenna Gain:	N5	Top: -5.30dBi; bottom: -6.98dBi
	N7	Top: -2.21dBi; bottom: 0.95dBi
	N38	Top: -1.95dBi; bottom: 1.21dBi
	N41	Top: -2.16dBi; bottom: 0.89dBi
	N66	Top: -5.08dBi; bottom: -1.86dBi
Accessory Information:	AC Adapter 1	
	Brand Name:	realme
	Model No.:	VCA7JAUH
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	200-240V～ 50/60HZ,1.8A
	Rated Output:	5V⎓2A; 10V⎓6.5A
	Rated Input:	100-130V～ 50/60HZ,1.8A
	Rated Output:	5V⎓2A; 10V⎓5A
	Manufacturer:	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD
	AC Adapter 2	
	Brand Name:	realme
	Model No.:	VCA7JDUH
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	200-240V～ 50/60HZ,1.8A
	Rated Output:	5V⎓2A; 10V⎓6.5A
	Rated Input:	100-130V～ 50/60HZ,1.8A
	Rated Output:	5V⎓2A; 10V⎓5A
	Manufacturer:	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD
	AC Adapter 3	
	Brand Name:	realme
	Model No.:	VCA7HAUH
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	200-240V～ 50/60HZ,1.8A
	Rated Output:	5V⎓2A; 10V⎓6.5A
	Rated Input:	100-130V～ 50/60HZ,1.8A
	Rated Output:	5V⎓2A; 10V⎓5A
	Manufacturer:	SHENZHEN HUNTKEY ELECTRIC CO., LTD.
	Battery	
	Brand Name:	realme

	Model No.:	BLP809
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	Typical: 2150mAh, Rated: 2100mAh
	Rated Voltage:	7.74V
	Charge Limit:	8.90V
	Manufacturer:	SUNWODA Electronic Co., Ltd.
	USB Cable:	
	Model No:	DL129
	Earphone	
	Model No:	MH156
	Length:	1.2m

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Maximum ERP/EIRP and Emission Designator

N5	Maximum ERP/EIRP（W）					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.040	0.041	0.038	0.028	0.018	0.036
15	0.016	/	/	/	/	/
10	0.036	/	/	/	/	/
5	0.038	/	/	/	/	/

N5	Emission Designator (99%OBW)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	18M1G7D	18M2G7D	18M1W7D	18M2D7W	18M1D7W	19M3G7D
15	13M6G7D	13M6G7D	13M6W7D	13M6D7W	13M6D7W	14M3G7D
10	9M06G7D	9M07G7D	9M05W7D	9M06D7W	9M08D7W	9M41G7D
5	4M52G7D	4M52G7D	4M52W7D	4M51D7W	4M51D7W	4M50G7D

N7	Maximum ERP/EIRP（W）					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.224	0.224	0.189	0.126	0.082	0.221
15	0.221	/	/	/	/	/
10	0.219	/	/	/	/	/
5	0.054	/	/	/	/	/

N7	Emission Designator (99%OBW)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	18M1G7D	18M2G7D	18M2W7D	18M2D7W	18M2D7W	19M3G7D
15	13M6G7D	13M6G7D	13M6W7D	13M6D7W	13M8D7W	14M3G7D
10	9M09G7D	9M11G7D	9M13W7D	9M08D7W	9M09D7W	9M39G7D
5	4M52G7D	4M52G7D	4M52W7D	4M52D7W	4M52D7W	4M52G7D

N38	Maximum ERP/EIRP（W）					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
40	0.296	0.299	0.245	0.165	0.114	0.265
30						
20	0.072	/	/	/	/	/

N38	Emission Designator (99%OBW)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
40	36M5G7D	36M6G7D	36M6W7D	36M6D7W	36M5D7W	36M6G7D
20	18M2G7D	18M2G7D	18M2W7D	18M2D7W	18M1D7W	18M2G7D

N41	Maximum ERP/EIRP（W）					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
100	0.275	0.286	0.223	0.149	0.097	0.061
90	0.248	/	/	/	/	/
80	0.245	/	/	/	/	/
60	0.258	/	/	/	/	/
50	0.265	/	/	/	/	/
40	0.261	/	/	/	/	/
30	0.269	/	/	/	/	/
20	0254	/	/	/	/	/

N41	Emission Designator (99%OBW)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
100	98M5G7D	98M5G7D	98M5G7D	98M5G7D	98M5G7D	98M5G7D
90	86M7G7D	86M7G7D	86M7W7D	86M7D7W	86M7D7W	87M4G7D
80	78M7G7D	78M9G7D	78M7W7D	78M9D7W	78M9D7W	79M0G7D
60	59M1G7D	59M0G7D	59M0W7D	59M0D7W	59M2D7W	59M2G7D
50	46M7G7D	46M8G7D	46M8W7D	46M8D7W	46M9D7W	46M7G7D
40	36M6G7D	36M5G7D	36M6W7D	36M7D7W	36M6D7W	36M6G7D
30	27M4G7D	27M5G7D	27M4W7D	27M4D7W	27M4D7W	27M4G7D
20	18M2G7D	18M1G7D	18M1W7D	18M1D7W	18M2D7W	18M2G7D

N66	Maximum ERP/EIRP（W）					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.129	0.134	0.130	0.097	0.063	0.129
15	0.134	/	/	/	/	/
10	0.124	/	/	/	/	/
5	0.134	/	/	/	/	/

N66	Emission Designator (99%OBW)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	18M1G7D	18M1G7D	18M1W7D	18M2D7W	18M3D7W	19M2G7D
15	13M6G7D	13M7G7D	13M6W7D	13M6D7W	13M6D7W	14M3G7D
10	9M08G7D	9M04G7D	9M04W7D	9M06D7W	9M05D7W	9M34G7D
5	4M51G7D	4M51G7D	4M53W7D	4M51D7W	4M52D7W	4M51G7D

1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046,27.50(d)(4) 22.913(a)(2) 27.50(d)(4)	Transmitter Conducted Output Power and ERP/EIRP	Jun. 8 to 12, 2021	Chen Haiju Yang Jie	PASS	No deviation
2.1049	Occupied Bandwidth	Jun. 13 to July 9, 2021	Chen Haiju	PASS	No deviation
2.1055 22.355 27.54	Frequency Stability	Jun. 15 to 16, 2021	Chen Haiju	PASS	No deviation
27.50(d)(5)	Peak to Average Radio	Jun. 17 to 18, 2021	Chen Haiju	PASS	No deviation
2.1051, 22.917(a) 27.53(h)	Conducted Spurious Emissions	Jun. 20 to July 9, 2021	Chen Haiju	PASS	No deviation
2.1051, 22.917(a) 27.53(h)	Band Edge	Jun. 20 to July 9, 2021	Chen Haiju	PASS	No deviation
2.1051, 22.917(a) 27.53(h)	Radiated Spurious Emissions	Jun. 30 to July. 7, 2021	Yang Jie	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 26.5dB contains two parts that cable loss 16.5dB and Attenuator 10dB.

1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR Part 2, Part 22H Part 27L&M Requirements

2.1. Transmitter Conducted Output Power And ERP/EIRP

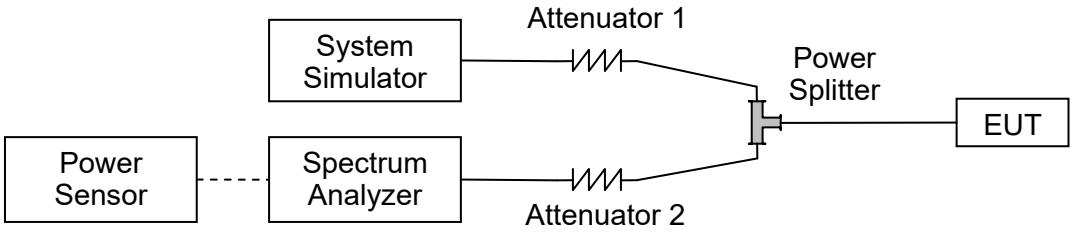
2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 27.50 (h)(2) for N/7/N38/N41, Mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

According to FCC section 27.50 (d)(4) for LTE Band 66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

2.1.2. Test Description



The EUTis coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)
ERP (dBm) = EIPR (dBm) - 2.15

2.1.4. Conducted Output Power:

N5

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	23.18	23.21	23.34
20		1	53	23.07	23.25	23.46
20		1	104	23.03	23.15	23.39
20		50	1	23.17	23.19	23.38
20		50	25	23.13	23.16	23.40
20		50	50	23.12	23.17	23.34
20		100	0	23.18	23.25	23.21
20	DFT-s-OFDM QPSK	1	1	23.48	23.61	23.48
20		1	53	23.28	23.35	23.36
20		1	104	23.20	23.22	23.24
20		50	1	23.15	23.20	23.12
20		50	25	23.19	23.16	23.17
20		50	50	23.13	23.17	23.46
20		100	0	23.21	22.73	23.16
20	DFT-s-OFDM 16QAM	1	1	23.27	22.63	23.21
20	DFT-s-OFDM 64QAM	1	1	21.85	20.88	21.80
20	DFT-s-OFDM 256QAM	1	1	19.78	20.02	19.83
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.61	22.63	22.53
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM PI/2 BPSK	1	1	22.93	23.06	22.68
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5

5	DFT-s-OFDM PI/2 BPSK	1	1	23.21	22.63	22.86
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	CP-OFDM QPSK	1	1	23.07	22.96	22.26
20	CP-OFDM 16QAM	1	1	22.73	22.65	22.03
20	CP-OFDM 64QAM	1	1	20.73	20.83	20.78
20	CP-OFDM 256QAM	1	1	17.90	18.02	17.89

N7

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	DFT-s-OFDM PI/2 BPSK	1	1	23.48	23.75	23.68
20		1	53	23.56	23.46	23.80
20		1	104	23.55	23.74	23.67
20		50	1	23.59	23.38	23.37
20		50	25	23.60	23.79	23.72
20		50	50	23.57	23.26	23.47
20		100	0	23.54	23.29	23.40
20	DFT-s-OFDM QPSK	1	1	23.54	23.84	23.72
20		1	53	23.77	23.80	23.65
20		1	104	23.79	23.80	23.68
20		50	1	23.08	23.65	23.02
20		50	25	23.53	23.51	23.55
20		50	50	23.14	22.86	22.98
20		100	0	23.05	22.88	22.88
20	DFT-s-OFDM 16QAM	1	1	22.00	21.99	21.77
20	DFT-s-OFDM 64QAM	1	1	20.39	20.20	19.92
20	DFT-s-OFDM 256QAM	1	1	18.54	18.46	18.24
Channel				501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5
15	DFT-s-OFDM PI/2 BPSK	1	1	23.62	23.81	23.84
Channel				501000	507000	513000
Frequency (MHz)				2505	2535	2565
10	DFT-s-OFDM PI/2 BPSK	1	1	23.81	23.77	23.67
Channel				500500	507000	513500
Frequency (MHz)				2502.5	2535	2567.5
5	DFT-s-OFDM PI/2 BPSK	1	1	23.39	23.62	23.42

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	1767.5
20	CP-OFDM QPSK	1	1	21.50	21.36	21.27
20	CP-OFDM 16QAM	1	1	21.30	21.11	21.00
20	CP-OFDM 64QAM	1	1	19.20	19.14	19.00
20	CP-OFDM 256QAM	1	1	16.70	16.56	16.35

N38

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	DFT-s-OFDM PI/2 BPSK	1	1	23.20	23.51	23.08
40		1	53	23.43	23.43	23.19
40		1	104	22.87	22.85	22.58
40		50	1	23.19	23.00	22.56
40		50	25	23.43	23.33	23.20
40		50	50	22.94	22.91	22.75
40		100	0	23.15	22.91	22.51
40	DFT-s-OFDM QPSK	1	1	23.45	23.54	23.36
40		1	53	23.40	23.41	23.22
40		1	104	22.69	22.75	23.01
40		50	1	22.41	22.50	22.43
40		50	25	23.12	23.34	23.10
40		50	50	22.47	22.42	22.44
40		100	0	22.69	22.35	22.32
40	DFT-s-OFDM 16QAM	1	1	22.68	22.52	22.14
40	DFT-s-OFDM 64QAM	1	1	20.97	20.85	20.36
40	DFT-s-OFDM 256QAM	1	1	19.16	19.35	18.73
Channel				516000	519000	522000
Frequency (MHz)				2580	2595	2610
20	DFT-s-OFDM QPSK	1	1	22.95	23.04	22.87
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	CP-OFDM QPSK	1	1	22.34	22.07	21.93
40	CP-OFDM 16QAM	1	1	21.65	21.72	21.59
40	CP-OFDM	1	1	20.17	20.02	20.33

	64QAM					
40	CP-OFDM 256QAM	1	1	17.35	17.07	16.89

N41

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546	2593	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	23.34	23.11	23.40
100		1	136	23.16	23.35	23.48
100		1	272	22.88	23.10	23.12
100		135	1	23.09	23.04	23.14
100		135	67	23.45	23.50	23.48
100		135	136	23.08	22.88	23.03
100		270	0	23.00	23.00	22.94
100	DFT-s-OFDM QPSK	1	1	23.37	23.68	23.47
100		1	136	23.20	23.12	23.52
100		1	272	23.26	22.97	23.09
100		135	1	23.12	23.48	23.24
100		135	67	23.42	23.44	23.46
100		135	136	23.47	23.31	23.44
100		270	0	22.53	22.50	22.43
100	DFT-s-OFDM 16QAM	1	1	22.05	22.59	22.34
100	DFT-s-OFDM 64QAM	1	1	20.80	20.49	20.83
100	DFT-s-OFDM 256QAM	1	1	18.58	18.58	18.97
Channel				508200	518598	528996
Frequency (MHz)				2541	2593	2645
90	DFT-s-OFDM PI/2 BPSK	1	1	22.80	23.00	23.06
Channel				507204	518598	529998
Frequency (MHz)				2536	2593	2650
80	DFT-s-OFDM PI/2 BPSK	1	1	22.83	22.91	23.01
Channel				505200	518598	531996
Frequency (MHz)				2526	2593	2660

60	DFT-s-OFDM PI/2 BPSK	1	1	23.00	23.12	23.22
Channel				504204	518598	532998
Frequency (MHz)				2521	2593	2665
50	DFT-s-OFDM PI/2 BPSK	1	1	23.25	23.27	23.35
Channel				503202	518598	534000
Frequency (MHz)				2516	2593	2670
40	DFT-s-OFDM PI/2 BPSK	1	1	23.24	23.28	23.28
Channel				502200	518598	534996
Frequency (MHz)				2511	2593	2675
30	DFT-s-OFDM PI/2 BPSK	1	1	23.36	23.11	23.40
Channel				501204	518598	535998
Frequency (MHz)				2506	2593	2680
20	DFT-s-OFDM PI/2 BPSK	1	1	23.08	23.08	23.15
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546	2593	2640
100	CP-OFDM QPSK	1	1	21.87	21.84	22.11
100	CP-OFDM 16QAM	1	1	21.43	21.46	21.69
100	CP-OFDM 64QAM	1	1	19.94	19.62	19.87
100	CP-OFDM 256QAM	1	1	16.79	16.87	16.96

N66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM PI/2 BPSK	1	1	22.86	22.95	22.79
20		1	53	22.81	22.98	22.68
20		1	104	22.93	22.96	22.98
20		50	1	22.74	22.90	22.86
20		50	25	22.81	22.91	22.91
20		50	50	22.75	22.83	22.73
20		100	0	22.80	22.85	22.65
20	DFT-s-OFDM QPSK	1	1	23.00	23.14	22.89
20		1	53	22.88	22.94	22.86
20		1	104	23.01	22.98	22.95
20		50	1	23.02	23.12	22.63
20		50	25	22.79	22.90	22.69
20		50	50	22.74	22.84	22.70
20		100	0	22.82	23.01	23.10
20	DFT-s-OFDM 16QAM	1	1	23.01	22.54	22.89
20	DFT-s-OFDM 64QAM	1	1	21.74	21.70	21.60
20	DFT-s-OFDM 256QAM	1	1	19.82	19.72	19.63
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.96	23.13	22.90
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM PI/2 BPSK	1	1	22.56	22.78	22.54
Channel				3425000	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM PI/2 BPSK	1	1	22.92	23.13	23.06

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1767.5
20	CP-OFDM QPSK	1	1	22.92	22.98	22.80
20	CP-OFDM 16QAM	1	1	22.64	22.68	22.43
20	CP-OFDM 64QAM	1	1	20.70	20.82	20.55
20	CP-OFDM 256QAM	1	1	17.84	17.91	17.74

Effective Radiated Power and Effective Isotropic Radiated Power:

Top antenna

N5				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh./ Freq.	MiddlCh ./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				166800	167300	167800	166800	167300	167800
Frequency (MHz)				834	836.5	839	834	836.5	839
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	15.73	15.76	15.89	0.037	0.038	0.039
20		1	39	15.62	15.80	16.01	0.036	0.038	0.040
20		1	77	15.58	15.70	15.94	0.036	0.037	0.039
20		36	1	15.72	15.74	15.93	0.037	0.037	0.039
20		36	18	15.68	15.71	15.95	0.037	0.037	0.039
20		36	36	15.67	15.72	15.89	0.037	0.037	0.039
20		75	0	15.73	15.80	15.76	0.037	0.038	0.038
20	DFT-s-OFDM QPSK	1	1	16.03	16.16	16.03	0.040	0.041	0.040
20		1	39	15.83	15.90	15.91	0.038	0.039	0.039
20		1	77	15.75	15.77	15.79	0.038	0.038	0.038
20		36	1	15.70	15.75	15.67	0.037	0.038	0.037
20		36	18	15.74	15.71	15.72	0.037	0.037	0.037
20		36	36	15.68	15.72	16.01	0.037	0.037	0.040
20		75	0	15.76	15.28	15.71	0.038	0.034	0.037
20	DFT-s-OFDM 16QAM	1	1	15.82	15.18	15.76	0.038	0.033	0.038
20	DFT-s-OFDM 64QAM	1	1	14.40	13.43	14.35	0.028	0.022	0.027
20	DFT-s-OFDM 256QAM	1	1	12.33	12.57	12.38	0.017	0.018	0.017
Channel				166300	167300	168300	166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5	831.5	836.5	841.5
15	DFT-s-OFDM PI/2 BPSK	1	1	12.05	12.01	11.96	0.016	0.016	0.016
Channel				165800	167300	168800	165800	167300	168800
Frequency (MHz)				829	836.5	844	829	836.5	844
10	DFT-s-OFDM PI/2 BPSK	1	1	15.48	15.61	15.23	0.035	0.036	0.033
Channel				165300	167300	169300	165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5	826.5	836.5	846.5

5	DFT-s-OFDM PI/2 BPSK	1	1	15.76	15.18	15.41	0.038	0.033	0.035
Channel				166800	167300	167800	166800	167300	167800
Frequency (MHz)				834	836.5	839	834	836.5	839
20	CP-OFDM QPSK	1	1	15.62	15.51	14.81	0.036	0.036	0.030
20	CP-OFDM 16QAM	1	1	15.28	15.20	14.58	0.034	0.033	0.029
20	CP-OFDM 64QAM	1	1	13.28	13.38	13.33	0.021	0.022	0.022
20	CP-OFDM 256QAM	1	1	10.45	10.57	10.44	0.011	0.011	0.011

N7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh./ Freq.	MiddlCh ./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				502000	507000	512000	502000	507000	512000
Frequency (MHz)				2510	2535	2560	2510	2535	2560
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	20.34	20.19	20.11	0.108	0.104	0.103
20		1	39	20.33	20.23	20.14	0.108	0.105	0.103
20		1	77	20.29	20.16	20.07	0.107	0.104	0.102
20		36	1	20.06	19.80	19.70	0.101	0.095	0.093
20		36	18	20.32	20.30	20.17	0.108	0.107	0.104
20		36	36	20.07	19.75	19.68	0.102	0.094	0.093
20		75	0	20.01	19.78	19.66	0.100	0.095	0.092
20	DFT-s-OFDM QPSK	1	1	20.29	20.35	20.16	0.107	0.108	0.104
20		1	39	20.21	20.08	20.21	0.105	0.102	0.105
20		1	77	20.26	20.07	20.20	0.106	0.102	0.105
20		36	1	19.56	19.94	19.22	0.090	0.099	0.084
20		36	18	19.90	19.86	19.87	0.098	0.097	0.097
20		36	36	19.59	19.28	19.18	0.091	0.085	0.083
20		75	0	19.55	19.27	19.23	0.090	0.085	0.084
20	DFT-s-OFDM 16QAM	1	1	19.61	19.38	19.24	0.091	0.087	0.084
20	DFT-s-OFDM 64QAM	1	1	17.85	17.50	17.48	0.061	0.056	0.056
20	DFT-s-OFDM 256QAM	1	1	15.98	15.80	15.55	0.040	0.038	0.036
Channel				501500	507000	512500	501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	DFT-s-OFDM PI/2 BPSK	1	1	20.29	20.15	20.05	0.107	0.104	0.101
Channel				501000	507000	513000	501000	507000	513000
Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	DFT-s-OFDM PI/2 BPSK	1	1	20.29	20.25	20.20	0.107	0.106	0.105
Channel				500500	507000	513500	500500	507000	513500
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	DFT-s-OFDM PI/2 BPSK	1	1	20.22	20.24	20.23	0.105	0.106	0.105

Channel				502000	507000	512000	502000	507000	512000
Frequency (MHz)				2510	2535	1767.5	2510	2535	1767.5
20	CP-OFDM QPSK	1	1	19.02	18.74	18.58	0.080	0.075	0.072
20	CP-OFDM 16QAM	1	1	18.72	18.54	18.38	0.074	0.071	0.069
20	CP-OFDM 64QAM	1	1	16.70	16.47	16.30	0.047	0.044	0.043
20	CP-OFDM 256QAM	1	1	14.13	13.84	13.70	0.026	0.024	0.023

N38				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh./ Freq.	MiddlCh ./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				518000	519000	520000	518000	519000	520000
Frequency (MHz)				2590	2595	2600	2590	2595	2600
				dBm			W		
40	DFT-s-OFDM PI/2 BPSK	1	1	21.25	21.56	21.13	0.133	0.143	0.130
40		1	39	21.48	21.48	21.24	0.141	0.141	0.133
40		1	77	20.92	20.90	20.63	0.124	0.123	0.116
40		36	1	21.24	21.05	20.61	0.133	0.127	0.115
40		36	18	21.48	21.38	21.25	0.141	0.137	0.133
40		36	36	20.99	20.96	20.80	0.126	0.125	0.120
40		75	0	21.20	20.96	20.56	0.132	0.125	0.114
40	DFT-s-OFDM QPSK	1	1	21.50	21.59	21.41	0.141	0.144	0.138
40		1	39	21.45	21.46	21.27	0.140	0.140	0.134
40		1	77	20.74	20.80	21.06	0.119	0.120	0.128
40		36	1	20.46	20.55	20.48	0.111	0.114	0.112
40		36	18	21.17	21.39	21.15	0.131	0.138	0.130
40		36	36	20.52	20.47	20.49	0.113	0.111	0.112
40		75	0	20.74	20.40	20.37	0.119	0.110	0.109
40	DFT-s-OFDM 16QAM	1	1	20.73	20.57	20.19	0.118	0.114	0.104
40	DFT-s-OFDM 64QAM	1	1	19.02	18.90	18.41	0.080	0.078	0.069
40	DFT-s-OFDM 256QAM	1	1	17.21	17.40	16.78	0.053	0.055	0.048
Channel				516000	519000	522000	516000	519000	522000
Frequency (MHz)				2580	2595	2610	2580	2595	2610
20	DFT-s-OFDM PI/2 BPSK	1	1	20.96	20.95	21.07	0.125	0.124	0.128
Channel				518000	519000	520000	518000	519000	520000
Frequency (MHz)				2590	2595	2600	2590	2595	2600
40	CP-OFDM QPSK	1	1	20.39	20.12	19.98	0.109	0.103	0.100
40	CP-OFDM 16QAM	1	1	19.70	19.77	19.64	20	20	20
40	CP-OFDM 64QAM	1	1	18.22	18.07	18.38	18.2	18.1	18.4

20	CP-OFDM 256QAM	1	1	15.40	15.12	14.94	0.035	0.033	0.031

N41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddlCh./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleCh./EIRP	HighCh. / EIRP
Channel				509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546	2593	2640	2546	2593	2640
				dBm			W		
100	DFT-s-OFDM PI/2 BPSK	1	1	21.18	20.95	21.24	0.131	0.124	0.133
100		1	136	21.00	21.19	21.32	0.126	0.132	0.136
100		1	272	20.72	20.94	20.96	0.118	0.124	0.125
100		135	1	20.93	20.88	20.98	0.124	0.122	0.125
100		135	67	21.29	21.34	21.32	0.135	0.136	0.136
100		135	136	20.92	20.72	20.87	0.124	0.118	0.122
100		270	0	20.84	20.84	20.78	0.121	0.121	0.120
100	DFT-s-OFDM QPSK	1	1	21.21	21.52	21.31	0.132	0.142	0.135
100		1	136	21.04	20.96	21.36	0.127	0.125	0.137
100		1	272	21.10	20.81	20.93	0.129	0.121	0.124
100		135	1	20.96	21.32	21.08	0.125	0.136	0.128
100		135	67	21.26	21.28	21.30	0.134	0.134	0.135
100		135	136	21.31	21.15	21.28	0.135	0.130	0.134
100		270	0	20.37	20.34	20.27	0.109	0.108	0.106
100	DFT-s-OFDM 16QAM	1	1	19.89	20.43	20.18	0.097	0.110	0.104
100	DFT-s-OFDM 64QAM	1	1	18.64	18.33	18.67	0.073	0.068	0.074
100	DFT-s-OFDM 256QAM	1	1	16.42	16.42	16.81	0.044	0.044	0.048
Channel				508200	518598	528996	508200	518598	528996
Frequency (MHz)				2541	2593	2645	2541	2593	2645
90	DFT-s-OFDM PI/2 BPSK	1	1	20.64	20.84	20.90	0.116	0.121	0.123
Channel				507204	518598	529998	507204	518598	529998
Frequency (MHz)				2536	2593	2650	2536	2593	2650
80	DFT-s-OFDM PI/2 BPSK	1	1	20.67	20.75	20.85	0.117	0.119	0.122
Channel				505200	518598	531996	505200	518598	531996
Frequency (MHz)				2526	2593	2660	2526	2593	2660
60	DFT-s-OFDM PI/2 BPSK	1	1	20.84	20.96	21.06	0.121	0.125	0.128

Channel				504204	518598	532998	504204	518598	532998
Frequency (MHz)				2521	2593	2665	2521	2593	2665
50	DFT-s-OFDM PI/2 BPSK	1	1	21.09	21.11	21.19	0.129	0.129	0.132
Channel				503202	518598	534000	503202	518598	534000
Frequency (MHz)				2516	2593	2670	2516	2593	2670
40	DFT-s-OFDM PI/2 BPSK	1	1	21.08	21.12	21.12	0.128	0.129	0.129
Channel				502200	518598	534996	502200	518598	534996
Frequency (MHz)				2511	2593	2675	2511	2593	2675
30	DFT-s-OFDM PI/2 BPSK	1	1	21.20	20.95	21.24	0.132	0.124	0.133
Channel				501204	518598	535998	501204	518598	535998
Frequency (MHz)				2506	2593	2680	2506	2593	2680
20	DFT-s-OFDM PI/2 BPSK	1	1	20.92	20.92	20.99	0.124	0.124	0.126
Channel				509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546	2593	2640	2546	2593	2640
100	CP-OFDM QPSK	1	1	19.71	19.68	19.95	0.094	0.093	0.099
100	CP-OFDM 16QAM	1	1	19.27	19.30	19.53	0.085	0.085	0.090
100	CP-OFDM 64QAM	1	1	17.78	17.46	17.71	0.060	0.056	0.059
100	CP-OFDM 256QAM	1	1	14.63	14.71	14.80	0.029	0.030	0.030

N66				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh./ Freq.	MiddlCh ./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleCh ./EIRP	HighCh. / EIRP
Channel				344000	349000	354000	344000	349000	354000
Frequency (MHz)				1720	1745	1770	1720	1745	1770
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	17.78	17.87	17.71	0.060	0.061	0.059
20		1	39	17.73	17.90	17.60	0.059	0.062	0.058
20		1	77	17.85	17.88	17.90	0.061	0.061	0.062
20		36	1	17.66	17.82	17.78	0.058	0.061	0.060
20		36	18	17.73	17.83	17.83	0.059	0.061	0.061
20		36	36	17.67	17.75	17.65	0.058	0.060	0.058
20		75	0	17.72	17.77	17.57	0.059	0.060	0.057
20	DFT-s-OFDM QPSK	1	1	17.92	18.06	17.81	0.062	0.064	0.060
20		1	39	17.80	17.86	17.78	0.060	0.061	0.060
20		1	77	17.93	17.90	17.87	0.062	0.062	0.061
20		36	1	17.94	18.04	17.55	0.062	0.064	0.057
20		36	18	17.71	17.82	17.61	0.059	0.061	0.058
20		36	36	17.66	17.76	17.62	0.058	0.060	0.058
20		75	0	17.74	17.93	18.02	0.059	0.062	0.063
20	DFT-s-OFDM 16QAM	1	1	17.93	17.46	17.81	0.062	0.056	0.060
20	DFT-s-OFDM 64QAM	1	1	16.66	16.62	16.52	0.046	0.046	0.045
20	DFT-s-OFDM 256QAM	1	1	14.74	14.64	14.55	0.030	0.029	0.029
Channel				343500	349000	354500	343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	DFT-s-OFDM PI/2 BPSK	1	1	17.88	18.05	17.82	0.061	0.064	0.061
Channel				343000	349000	355000	343000	349000	355000
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	DFT-s-OFDM PI/2 BPSK	1	1	17.48	17.70	17.46	0.056	0.059	0.056
Channel				342500	349000	355500	342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	DFT-s-OFDM PI/2 BPSK	1	1	17.84	18.05	17.98	0.061	0.064	0.063

Channel				344000	349000	354000	344000	349000	354000
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	CP-OFDM QPSK	1	1	17.84	17.90	17.72	0.061	0.062	0.059
20	CP-OFDM 16QAM	1	1	17.56	17.60	17.35	0.057	0.058	0.054
20	CP-OFDM 64QAM	1	1	15.62	15.74	15.47	0.036	0.037	0.035
20	CP-OFDM 256QAM	1	1	12.76	12.83	12.66	0.019	0.019	0.018

Bottom antenna

N5				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh./ Freq.	MiddlCh ./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				166800	167300	167800	166800	167300	167800
Frequency (MHz)				834	836.5	839	834	836.5	839
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	14.05	14.08	14.21	0.025	0.026	0.026
20		1	39	13.94	14.12	14.33	0.025	0.026	0.027
20		1	77	13.90	14.02	14.26	0.025	0.025	0.027
20		36	1	14.04	14.06	14.25	0.025	0.025	0.027
20		36	18	14.00	14.03	14.27	0.025	0.025	0.027
20		36	36	13.99	14.04	14.21	0.025	0.025	0.026
20		75	0	14.05	14.12	14.08	0.025	0.026	0.026
20	DFT-s-OFDM QPSK	1	1	14.35	14.48	14.35	0.027	0.028	0.027
20		1	39	14.15	14.22	14.23	0.026	0.026	0.026
20		1	77	14.07	14.09	14.11	0.026	0.026	0.026
20		36	1	14.02	14.07	13.99	0.025	0.026	0.025
20		36	18	14.06	14.03	14.04	0.025	0.025	0.025
20		36	36	14.00	14.04	14.33	0.025	0.025	0.027
20		75	0	14.08	13.60	14.03	0.026	0.023	0.025
20	DFT-s-OFDM 16QAM	1	1	14.14	13.50	14.08	0.026	0.022	0.026
20	DFT-s-OFDM 64QAM	1	1	12.72	11.75	12.67	0.019	0.015	0.018
20	DFT-s-OFDM 256QAM	1	1	10.65	10.89	10.70	0.012	0.012	0.012
Channel				166300	167300	168300	166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5	831.5	836.5	841.5
15	DFT-s-OFDM PI/2 BPSK	1	1	10.37	10.33	10.28	0.011	0.011	0.011
Channel				165800	167300	168800	165800	167300	168800
Frequency (MHz)				829	836.5	844	829	836.5	844
10	DFT-s-OFDM PI/2 BPSK	1	1	13.80	13.93	13.55	0.024	0.025	0.023
Channel				165300	167300	169300	165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5	826.5	836.5	846.5
5	DFT-s-OFDM	1	1	14.08	13.50	13.73	0.026	0.022	0.024

	PI/2 BPSK								
Channel				166800	167300	167800	166800	167300	167800
Frequency (MHz)				834	836.5	839	834	836.5	839
20	CP-OFDM QPSK	1	1	13.94	13.83	13.13	0.025	0.024	0.021
20	CP-OFDM 16QAM	1	1	13.60	13.52	12.90	0.023	0.022	0.019
20	CP-OFDM 64QAM	1	1	11.60	11.70	11.65	0.014	0.015	0.015
20	CP-OFDM 256QAM	1	1	8.77	8.89	8.76	0.008	0.008	0.008

N7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh./ Freq.	MiddlCh ./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				502000	507000	512000	502000	507000	512000
Frequency (MHz)				2510	2535	2560	2510	2535	2560
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	23.50	23.35	23.27	0.224	0.216	0.212
20		1	39	23.49	23.39	23.30	0.223	0.218	0.214
20		1	77	23.45	23.32	23.23	0.221	0.215	0.210
20		36	1	23.22	22.96	22.86	0.210	0.198	0.193
20		36	18	23.48	23.46	23.33	0.223	0.222	0.215
20		36	36	23.23	22.91	22.84	0.210	0.195	0.192
20		75	0	23.17	22.94	22.82	0.207	0.197	0.191
20	DFT-s-OFDM QPSK	1	1	23.45	23.51	23.32	0.221	0.224	0.215
20		1	39	23.37	23.24	23.37	0.217	0.211	0.217
20		1	77	23.42	23.23	23.36	0.220	0.210	0.217
20		36	1	22.72	23.10	22.38	0.187	0.204	0.173
20		36	18	23.06	23.02	23.03	0.202	0.200	0.201
20		36	36	22.75	22.44	22.34	0.188	0.175	0.171
20		75	0	22.71	22.43	22.39	0.187	0.175	0.173
20	DFT-s-OFDM 16QAM	1	1	22.77	22.54	22.40	0.189	0.179	0.174
20	DFT-s-OFDM 64QAM	1	1	21.01	20.66	20.64	0.126	0.116	0.116
20	DFT-s-OFDM 256QAM	1	1	19.14	18.96	18.71	0.082	0.079	0.074
Channel				501500	507000	512500	501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	DFT-s-OFDM PI/2 BPSK	1	1	23.45	23.31	23.21	0.221	0.214	0.209
Channel				501000	507000	513000	501000	507000	513000
Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	DFT-s-OFDM PI/2 BPSK	1	1	23.45	23.41	23.36	0.221	0.219	0.217
Channel				500500	507000	513500	500500	507000	513500
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	DFT-s-OFDM PI/2 BPSK	1	1	23.38	23.40	23.39	0.218	0.219	0.218

Channel				502000	507000	512000	502000	507000	512000
Frequency (MHz)				2510	2535	1767.5	2510	2535	1767.5
20	CP-OFDM QPSK	1	1	22.18	21.90	21.74	0.165	0.155	0.149
20	CP-OFDM 16QAM	1	1	21.88	21.70	21.54	0.154	0.148	0.143
20	CP-OFDM 64QAM	1	1	19.86	19.63	19.46	0.097	0.092	0.088
20	CP-OFDM 256QAM	1	1	17.29	17.00	16.86	0.054	0.050	0.049

N38				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh./ Freq.	MiddlCh ./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleC h./EIRP	HighCh. / EIRP
Channel				518000	519000	520000	518000	519000	520000
Frequency (MHz)				2590	2595	2600	2590	2595	2600
				dBm			W		
40	DFT-s-OFDM PI/2 BPSK	1	1	24.41	24.72	24.29	0.276	0.296	0.269
40		1	39	24.64	24.64	24.40	0.291	0.291	0.275
40		1	77	24.08	24.06	23.79	0.256	0.255	0.239
40		36	1	24.40	24.21	23.77	0.275	0.264	0.238
40		36	18	24.64	24.54	24.41	0.291	0.284	0.276
40		36	36	24.15	24.12	23.96	0.260	0.258	0.249
40		75	0	24.36	24.12	23.72	0.273	0.258	0.236
40	DFT-s-OFDM QPSK	1	1	24.66	24.75	24.57	0.292	0.299	0.286
40		1	39	24.61	24.62	24.43	0.289	0.290	0.277
40		1	77	23.90	23.96	24.22	0.245	0.249	0.264
40		36	1	23.62	23.71	23.64	0.230	0.235	0.231
40		36	18	24.33	24.55	24.31	0.271	0.285	0.270
40		36	36	23.68	23.63	23.65	0.233	0.231	0.232
40		75	0	23.90	23.56	23.53	0.245	0.227	0.225
40	DFT-s-OFDM 16QAM	1	1	23.89	23.73	23.35	0.245	0.236	0.216
40	DFT-s-OFDM 64QAM	1	1	22.18	22.06	21.57	0.165	0.161	0.144
40	DFT-s-OFDM 256QAM	1	1	20.37	20.56	19.94	0.109	0.114	0.099
Channel				516000	519000	522000	516000	519000	522000
Frequency (MHz)				2580	2595	2610	2580	2595	2610
20	DFT-s-OFDM PI/2 BPSK	1	1	24.12	24.11	24.23	0.258	0.258	0.265
Channel				518000	519000	520000	518000	519000	520000
Frequency (MHz)				2590	2595	2600	2590	2595	2600
40	CP-OFDM QPSK	1	1	23.55	23.28	23.14	0.226	0.213	0.206
40	CP-OFDM 16QAM	1	1	22.86	22.93	22.80	0.193	0.196	0.191
40	CP-OFDM 64QAM	1	1	21.38	21.23	21.54	0.137	0.133	0.143

20	CP-OFDM 256QAM	1	1	18.56	18.28	18.10	0.072	0.067	0.065

N41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh. /Freq.	MiddlCh./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleCh./EIRP	HighCh. / EIRP
Channel				509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546	2593	2640	2546	2593	2640
				dBm			W		
100	DFT-s-OFDM PI/2 BPSK	1	1	24.23	24.00	24.29	0.265	0.251	0.269
100		1	136	24.05	24.24	24.37	0.254	0.265	0.274
100		1	272	23.77	23.99	24.01	0.238	0.251	0.252
100		135	1	23.98	23.93	24.03	0.250	0.247	0.253
100		135	67	24.34	24.39	24.37	0.272	0.275	0.274
100		135	136	23.97	23.77	23.92	0.249	0.238	0.247
100		270	0	23.89	23.89	23.83	0.245	0.245	0.242
100	DFT-s-OFDM QPSK	1	1	24.26	24.57	24.36	0.267	0.286	0.273
100		1	136	24.09	24.01	24.41	0.256	0.252	0.276
100		1	272	24.15	23.86	23.98	0.260	0.243	0.250
100		135	1	24.01	24.37	24.13	0.252	0.274	0.259
100		135	67	24.31	24.33	24.35	0.270	0.271	0.272
100		135	136	24.36	24.20	24.33	0.273	0.263	0.271
100		270	0	23.42	23.39	23.32	0.220	0.218	0.215
100	DFT-s-OFDM 16QAM	1	1	22.94	23.48	23.23	0.197	0.223	0.210
100	DFT-s-OFDM 64QAM	1	1	21.69	21.38	21.72	0.148	0.137	0.149
100	DFT-s-OFDM 256QAM	1	1	19.47	19.47	19.86	0.089	0.089	0.097
Channel				508200	518598	528996	508200	518598	528996
Frequency (MHz)				2541	2593	2645	2541	2593	2645
90	DFT-s-OFDM PI/2 BPSK	1	1	23.69	23.89	23.95	0.234	0.245	0.248
Channel				507204	518598	529998	507204	518598	529998
Frequency (MHz)				2536	2593	2650	2536	2593	2650
80	DFT-s-OFDM PI/2 BPSK	1	1	23.72	23.80	23.90	0.236	0.240	0.245
Channel				505200	518598	531996	505200	518598	531996
Frequency (MHz)				2526	2593	2660	2526	2593	2660
60	DFT-s-OFDM PI/2 BPSK	1	1	23.89	24.01	24.11	0.245	0.252	0.258

Channel				504204	518598	532998	504204	518598	532998
Frequency (MHz)				2521	2593	2665	2521	2593	2665
50	DFT-s-OFDM PI/2 BPSK	1	1	24.14	24.16	24.24	0.259	0.261	0.265
Channel				503202	518598	534000	503202	518598	534000
Frequency (MHz)				2516	2593	2670	2516	2593	2670
40	DFT-s-OFDM PI/2 BPSK	1	1	24.13	24.17	24.17	0.259	0.261	0.261
Channel				502200	518598	534996	502200	518598	534996
Frequency (MHz)				2511	2593	2675	2511	2593	2675
30	DFT-s-OFDM PI/2 BPSK	1	1	24.25	24.00	24.29	0.266	0.251	0.269
Channel				501204	518598	535998	501204	518598	535998
Frequency (MHz)				2506	2593	2680	2506	2593	2680
20	DFT-s-OFDM PI/2 BPSK	1	1	23.97	23.97	24.04	0.249	0.249	0.254
Channel				509202	518598	528000	509202	518598	528000
Frequency (MHz)				2546	2593	2640	2546	2593	2640
100	CP-OFDM QPSK	1	1	22.76	22.73	23.00	0.189	0.187	0.200
100	CP-OFDM 16QAM	1	1	22.32	22.35	22.58	0.171	0.172	0.181
100	CP-OFDM 64QAM	1	1	20.83	20.51	20.76	0.121	0.112	0.119
100	CP-OFDM 256QAM	1	1	17.68	17.76	17.85	0.059	0.060	0.061

N66				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	LowCh./ Freq.	MiddlCh ./Freq.	HighCh. / Freq.	LowCh. / EIRP	MiddleCh ./EIRP	HighCh. / EIRP
Channel				344000	349000	354000	344000	349000	354000
Frequency (MHz)				1720	1745	1770	1720	1745	1770
				dBm			W		
20	DFT-s-OFDM PI/2 BPSK	1	1	21.00	21.09	20.93	0.126	0.129	0.124
20		1	39	20.95	21.12	20.82	0.124	0.129	0.121
20		1	77	21.07	21.10	21.12	0.128	0.129	0.129
20		36	1	20.88	21.04	21.00	0.122	0.127	0.126
20		36	18	20.95	21.05	21.05	0.124	0.127	0.127
20		36	36	20.89	20.97	20.87	0.123	0.125	0.122
20		75	0	20.94	20.99	20.79	0.124	0.126	0.120
20	DFT-s-OFDM QPSK	1	1	21.14	21.28	21.03	0.130	0.134	0.127
20		1	39	21.02	21.08	21.00	0.126	0.128	0.126
20		1	77	21.15	21.12	21.09	0.130	0.129	0.129
20		36	1	21.16	21.26	20.77	0.131	0.134	0.119
20		36	18	20.93	21.04	20.83	0.124	0.127	0.121
20		36	36	20.88	20.98	20.84	0.122	0.125	0.121
20		75	0	20.96	21.15	21.24	0.125	0.130	0.133
20	DFT-s-OFDM 16QAM	1	1	21.15	20.68	21.03	0.130	0.117	0.127
20	DFT-s-OFDM 64QAM	1	1	19.88	19.84	19.74	0.097	0.096	0.094
20	DFT-s-OFDM 256QAM	1	1	17.96	17.86	17.77	0.063	0.061	0.060
Channel				343500	349000	354500	343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	DFT-s-OFDM PI/2 BPSK	1	1	21.10	21.27	21.04	0.129	0.134	0.127
Channel				343000	349000	355000	343000	349000	355000
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	DFT-s-OFDM PI/2 BPSK	1	1	20.70	20.92	20.68	0.117	0.124	0.117
Channel				342500	349000	355500	342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	DFT-s-OFDM PI/2 BPSK	1	1	21.06	21.27	21.20	0.128	0.134	0.132

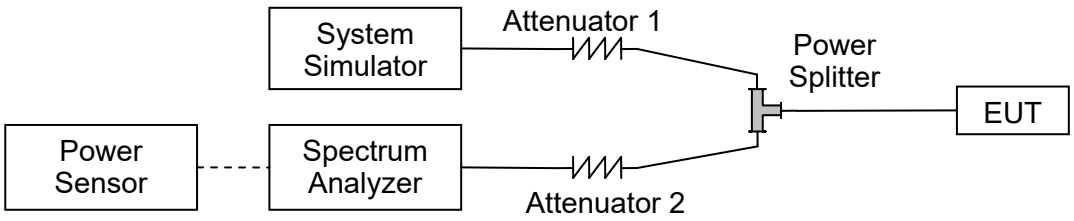
Channel				344000	349000	354000	344000	349000	354000
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	CP-OFDM QPSK	1	1	21.06	21.12	20.94	0.128	0.129	0.124
20	CP-OFDM 16QAM	1	1	20.78	20.82	20.57	0.120	0.121	0.114
20	CP-OFDM 64QAM	1	1	18.84	18.96	18.69	0.077	0.079	0.074
20	CP-OFDM 256QAM	1	1	15.98	16.05	15.88	0.040	0.040	0.039

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, 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 radiated by a given emission.Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUTis coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

2.2.4. Test Result

N5					
BW(MHz)	ChannelLevel	Modulation		99% BW(MHz)	26dB BW(MHz)
5	Low	DFT-s-OFDM	PI/2 BPSK	4.4995	4.657
	Low		QPSK	4.5026	4.705
	Low		16QAM	4.5057	4.661
	Low		64QAM	4.4790	4.648
	Low		256QAM	4.3658	4.617
	Low	CP-OFDM	QPSK	4.4880	4.698
	Mid	DFT-s-OFDM	PI/2 BPSK	4.4938	4.721
	Mid		QPSK	4.5036	4.694
	Mid		16QAM	4.5066	4.706
	Mid		64QAM	4.4947	4.705
	Mid		256QAM	4.5128	4.722
	Mid	CP-OFDM	QPSK	4.4461	4.687
	High	DFT-s-OFDM	PI/2 BPSK	4.5216	4.703
	High		QPSK	4.5186	4.681
	High		16QAM	4.5236	4.677
	High		64QAM	4.5077	4.683
	High		256QAM	4.4986	4.677
	High	CP-OFDM	QPSK	4.497	4.709
10	Low	DFT-s-OFDM	PI/2 BPSK	9.0067	9.373
	Low		QPSK	9.0104	9.587
	Low		16QAM	9.0347	9.744
	Low		64QAM	8.9847	9.306
	Low		256QAM	9.0263	9.425
	Low	CP-OFDM	QPSK	9.3661	9.73
	Mid	DFT-s-OFDM	PI/2 BPSK	9.0643	9.323
	Mid		QPSK	9.0711	9.516
	Mid		16QAM	9.0462	9.664
	Mid		64QAM	9.0614	9.593
	Mid		256QAM	9.0751	9.385
	Mid	CP-OFDM	QPSK	9.4083	9.819
	High	DFT-s-OFDM	PI/2 BPSK	8.9896	9.552
	High		QPSK	9.0361	9.7
	High		16QAM	8.9326	9.501

	High		64QAM	8.9336	9.467
	High		256QAM	8.9290	9.475
	High	CP-OFDM	QPSK	9.2849	9.943
15	Low	DFT-s-OFDM	PI/2 BPSK	13.486	14.13
	Low		QPSK	13.55	14.88
	Low		16QAM	13.537	14.05
	Low		64QAM	13.582	14.13
	Low		256QAM	13.568	14.43
	Low	CP-OFDM	QPSK	14.307	15.52
	Mid	DFT-s-OFDM	PI/2 BPSK	13.572	14.11
	Mid		QPSK	13.587	14.44
	Mid		16QAM	13.647	14.03
	Mid		64QAM	13.595	14.08
	Mid		256QAM	13.567	14.09
	Mid	CP-OFDM	QPSK	14.154	17.36
	High	DFT-s-OFDM	PI/2 BPSK	13.55	14.07
	High		QPSK	13.579	14.06
	High		16QAM	13.601	14.42
	High		64QAM	13.498	14.66
	High		256QAM	13.579	14.61
	High	CP-OFDM	QPSK	14.297	14.73
20	Low	DFT-s-OFDM	PI/2 BPSK	18.103	19.72
	Low		QPSK	18.199	19.38
	Low		16QAM	17.898	20.97
	Low		64QAM	18.176	19.46
	Low		256QAM	18.107	19.2
	Low	CP-OFDM	QPSK	18.887	20.04
	Mid	DFT-s-OFDM	PI/2 BPSK	18.049	18.72
	Mid		QPSK	18.125	18.74
	Mid		16QAM	18.109	18.96
	Mid		64QAM	18.031	18.95
	Mid		256QAM	18.055	18.72
	Mid	CP-OFDM	QPSK	19.302	20.29
	High	DFT-s-OFDM	PI/2 BPSK	18.044	18.64
	High		QPSK	18.161	19.6
	High		16QAM	18.098	19.32
	High		64QAM	17.78	18.52
	High		256QAM	18.106	18.62

	High	CP-OFDM	QPSK	19.096	19.77
N7					
BW(MHz)	**ChannelLevel**	**Modulation**		**99% BW(MHz)**	**26dB BW(MHz)**
5	Low	DFT-s-OFDM	PI/2 BPSK	4.5133	4.809
	Low		QPSK	4.5168	4.915
	Low		16QAM	4.5123	4.877
	Low		64QAM	4.523	4.703
	Low		256QAM	4.5201	4.827
	Low	CP-OFDM	QPSK	4.5091	4.806
	Mid	DFT-s-OFDM	PI/2 BPSK	4.5057	4.86
	Mid		QPSK	4.5117	4.728
	Mid		16QAM	4.5222	4.79
	Mid		64QAM	4.5182	4.825
	Mid		256QAM	4.5197	4.723
	Mid	CP-OFDM	QPSK	4.4982	4.701
	High	DFT-s-OFDM	PI/2 BPSK	4.5189	4.735
	High		QPSK	4.5093	4.722
	High		16QAM	4.5183	4.798
	High		64QAM	4.5142	4.797
	High		256QAM	4.5118	4.702
	High	CP-OFDM	QPSK	4.5166	4.808
10	Low	DFT-s-OFDM	PI/2 BPSK	9.0068	9.832
	Low		QPSK	9.1136	9.778
	Low		16QAM	9.1267	9.863
	Low		64QAM	9.0586	9.707
	Low		256QAM	8.9904	9.358
	Low	CP-OFDM	QPSK	9.3845	9.733
	Mid	DFT-s-OFDM	PI/2 BPSK	9.0634	9.687
	Mid		QPSK	9.0181	9.349
	Mid		16QAM	8.9703	9.666
	Mid		64QAM	9.0791	9.483
	Mid		256QAM	9.0535	9.398
	Mid	CP-OFDM	QPSK	9.3231	9.749
	High	DFT-s-OFDM	PI/2 BPSK	9.0895	9.846
	High		QPSK	9.0322	9.429
	High		16QAM	9.0153	9.543
	High		64QAM	9.0127	9.82

	High		256QAM	9.0947	9.415
	High	CP-OFDM	QPSK	9.3915	10.06
15	Low	DFT-s-OFDM	PI/2 BPSK	13.597	14.7
	Low		QPSK	13.631	14.55
	Low		16QAM	13.54	14.05
	Low		64QAM	13.642	14.09
	Low		256QAM	13.765	14.36
	Low	CP-OFDM	QPSK	13.766	14.25
	Mid	DFT-s-OFDM	PI/2 BPSK	13.61	14.08
	Mid		QPSK	13.634	14.56
	Mid		16QAM	13.603	14.09
	Mid		64QAM	13.526	14.06
	Mid		256QAM	13.548	14.56
	Mid	CP-OFDM	QPSK	14.227	15.24
	High	DFT-s-OFDM	PI/2 BPSK	13.61	14.09
	High		QPSK	13.643	14.07
	High		16QAM	13.613	14.06
	High		64QAM	13.612	14.08
	High		256QAM	13.589	14.09
	High	CP-OFDM	QPSK	14.274	15.24
20	Low	DFT-s-OFDM	PI/2 BPSK	18.146	18.75
	Low		QPSK	18.212	18.8
	Low		16QAM	18.125	19.52
	Low		64QAM	18.177	18.7
	Low		256QAM	18.201	18.77
	Low	CP-OFDM	QPSK	19.268	19.83
	Mid	DFT-s-OFDM	PI/2 BPSK	18.103	18.77
	Mid		QPSK	18.227	19.3
	Mid		16QAM	18.153	18.89
	Mid		64QAM	18.185	18.96
	Mid		256QAM	18.142	18.7
	Mid	CP-OFDM	QPSK	19.248	20.55
	High	DFT-s-OFDM	PI/2 BPSK	17.899	19.0
	High		QPSK	18.183	18.73
	High		16QAM	18.171	19.05
	High		64QAM	18.231	18.91
	High		256QAM	18.121	19.09
	High	CP-OFDM	QPSK	18.069	18.81

N38					
BW(MHz)	ChannelLevel	Modulation		99% BW(MHz)	26dB BW(MHz)
20	Low	DFT-s-OFDM	PI/2 BPSK	18.08	18.77
	Low		QPSK	18.168	18.76
	Low		16QAM	18.084	18.97
	Low		64QAM	18.162	18.9
	Low		256QAM	18.046	19.04
	Low	CP-OFDM	QPSK	18.157	18.95
	Mid	DFT-s-OFDM	PI/2 BPSK	18.232	18.9
	Mid		QPSK	18.164	18.89
	Mid		16QAM	18.171	18.79
	Mid		64QAM	18.164	18.9
	Mid		256QAM	18.129	18.92
	Mid	CP-OFDM	QPSK	18.176	19.15
	High	DFT-s-OFDM	PI/2 BPSK	18.128	18.81
	High		QPSK	18.193	18.77
	High		16QAM	18.124	19.32
	High		64QAM	18.15	18.74
	High		256QAM	18.129	18.78
	High	CP-OFDM	QPSK	18.071	18.81
40	Low	DFT-s-OFDM	PI/2 BPSK	36.543	37.46
	Low		QPSK	36.523	37.55
	Low		16QAM	36.364	37.57
	Low		64QAM	36.346	37.34
	Low		256QAM	36.545	37.89
	Low	CP-OFDM	QPSK	36.467	37.82
	Mid	DFT-s-OFDM	PI/2 BPSK	36.538	38.73
	Mid		QPSK	36.143	37.17
	Mid		16QAM	36.57	37.52
	Mid		64QAM	36.55	37.55
	Mid		256QAM	36.49	37.68
	Mid	CP-OFDM	QPSK	36.552	37.69
	High	DFT-s-OFDM	PI/2 BPSK	36.358	37.32
	High		QPSK	36.565	38.41
	High		16QAM	36.615	37.7
	High		64QAM	36.515	37.42
	High		256QAM	36.451	38.6

	High	CP-OFDM	QPSK	36.354	37.65

N41					
BW(MHz)	**ChannelLevel**	**Modulation**		**99% BW(MHz)**	**26dB BW(MHz)**
20	Low	DFT-s-OFDM	PI/2 BPSK	18.2	19.11
	Low		QPSK	18.059	18.71
	Low		16QAM	18.106	18.81
	Low		64QAM	18.087	18.74
	Low		256QAM	18.193	18.86
	Low	CP-OFDM	QPSK	18.184	18.69
	Mid	DFT-s-OFDM	PI/2 BPSK	18.204	18.79
	Mid		QPSK	18.058	19.01
	Mid		16QAM	18.127	18.74
	Mid		64QAM	18.079	18.86
	Mid		256QAM	18.05	18.89
	Mid	CP-OFDM	QPSK	18.182	18.66
	High	DFT-s-OFDM	PI/2 BPSK	18.188	18.82
	High		QPSK	18.084	18.81
	High		16QAM	18.014	18.87
	High		64QAM	18.057	18.83
	High		256QAM	18.158	19.0
	High	CP-OFDM	QPSK	18.147	18.76
30	Low	DFT-s-OFDM	PI/2 BPSK	27.361	28.4
	Low		QPSK	27.305	29.21
	Low		16QAM	27.359	28.33
	Low		64QAM	27.391	28.42
	Low		256QAM	27.397	28.55
	Low	CP-OFDM	QPSK	27.402	28.19
	Mid	DFT-s-OFDM	PI/2 BPSK	27.418	28.3
	Mid		QPSK	27.407	28.25
	Mid		16QAM	27.311	29.07
	Mid		64QAM	27.387	28.26
	Mid		256QAM	27.342	28.33
	Mid	CP-OFDM	QPSK	27.446	28.49
	High	DFT-s-OFDM	PI/2 BPSK	27.327	28.28
	High		QPSK	27.454	28.26
	High		16QAM	27.367	28.25
	High		64QAM	27.407	28.51
	High		256QAM	27.309	28.27

	High	CP-OFDM	QPSK	27.396	28.48
40	Low	DFT-s-OFDM	PI/2 BPSK	36.231	37.94
	Low		QPSK	36.518	37.83
	Low		16QAM	36.559	38.56
	Low		64QAM	36.669	37.68
	Low		256QAM	36.558	37.75
	Low	CP-OFDM	QPSK	36.58	37.79
	Mid	DFT-s-OFDM	PI/2 BPSK	36.558	37.81
	Mid		QPSK	36.369	38.85
	Mid		16QAM	36.391	37.71
	Mid		64QAM	36.549	37.67
	Mid		256QAM	36.357	37.35
	Mid	CP-OFDM	QPSK	36.255	37.45
	High	DFT-s-OFDM	PI/2 BPSK	36.462	38.0
	High		QPSK	36.322	37.69
	High		16QAM	36.485	37.4
	High		64QAM	36.453	37.44
	High		256QAM	36.448	37.6
	High	CP-OFDM	QPSK	36.399	38.91
50	Low	DFT-s-OFDM	PI/2 BPSK	46.684	48.14
	Low		QPSK	46.828	48.3
	Low		16QAM	46.601	48.29
	Low		64QAM	46.001	48.24
	Low		256QAM	46.87	47.93
	Low	CP-OFDM	QPSK	46.572	48.36
	Mid	DFT-s-OFDM	PI/2 BPSK	46.698	48.11
	Mid		QPSK	46.711	48.19
	Mid		16QAM	46.761	48.06
	Mid		64QAM	46.714	48.73
	Mid		256QAM	46.809	48.01
	Mid	CP-OFDM	QPSK	46.611	48.23
	High	DFT-s-OFDM	PI/2 BPSK	46.627	48.83
	High		QPSK	46.645	49.66
	High		16QAM	46.604	47.89
	High		64QAM	46.751	49.29
	High		256QAM	46.534	49.19
	High	CP-OFDM	QPSK	46.675	48.1
	Low	DFT-s-OFDM	PI/2 BPSK	59.013	61.19

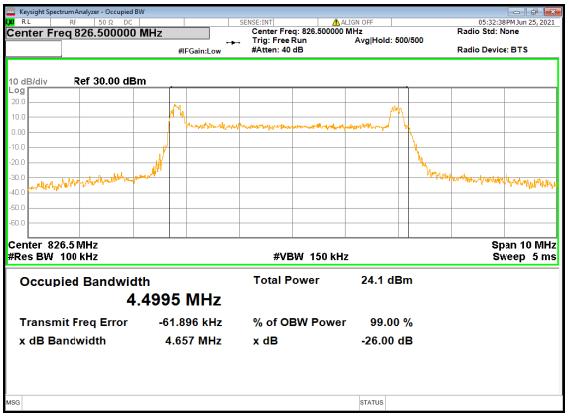
60	Low		QPSK	59.016	60.88
	Low		16QAM	59.005	61.06
	Low		64QAM	58.986	60.72
	Low		256QAM	59.18	60.9
	Low	CP-OFDM	QPSK	59.216	62.3
	Mid	DFT-s-OFDM	PI/2 BPSK	59.079	60.85
	Mid		QPSK	58.809	60.76
	Mid		16QAM	58.899	60.82
	Mid		64QAM	59.047	60.69
	Mid		256QAM	58.871	60.36
	Mid	CP-OFDM	QPSK	59.106	60.73
	High	DFT-s-OFDM	PI/2 BPSK	58.872	60.84
	High		QPSK	58.985	60.9
	High		16QAM	58.931	60.83
	High		64QAM	58.87	60.75
	High		256QAM	58.936	62.01
	High	CP-OFDM	QPSK	58.813	60.75
80	Low	DFT-s-OFDM	PI/2 BPSK	78.661	81.29
	Low		QPSK	78.921	81.29
	Low		16QAM	78.745	81.22
	Low		64QAM	78.883	82.79
	Low		256QAM	78.888	81.38
	Low	CP-OFDM	QPSK	78.803	81.36
	Mid	DFT-s-OFDM	PI/2 BPSK	78.398	80.47
	Mid		QPSK	78.745	82.92
	Mid		16QAM	78.577	80.59
	Mid		64QAM	78.778	80.68
	Mid		256QAM	77.565	80.31
	Mid	CP-OFDM	QPSK	78.967	81.06
	High	DFT-s-OFDM	PI/2 BPSK	78.263	80.93
	High		QPSK	78.566	82.36
	High		16QAM	78.364	80.64
	High		64QAM	78.119	80.18
	High		256QAM	78.415	81.86
	High	CP-OFDM	QPSK	78.428	80.99
	Low	DFT-s-OFDM	PI/2 BPSK	86.271	89.44
	Low		QPSK	86.381	89.44
	Low		16QAM	86.441	89.68

90	Low		64QAM	86.398	89.49
	Low		256QAM	86.415	87.065
	Low	CP-OFDM	QPSK	87.065	90.28
	Mid	DFT-s-OFDM	PI/2 BPSK	86.670	89.64
	Mid		QPSK	86.677	89.67
	Mid		16QAM	86.685	89.68
	Mid		64QAM	86.691	89.55
	Mid		256QAM	86.715	89.68
	Mid	CP-OFDM	QPSK	87.400	91.91
	High	DFT-s-OFDM	PI/2 BPSK	86.423	89.64
	High		QPSK	86.515	89.54
	High		16QAM	86.498	89.49
	High		64QAM	86.509	89.62
	High		256QAM	86.469	89.53
	High	CP-OFDM	QPSK	87.250	90.42
100	Low	DFT-s-OFDM	PI/2 BPSK	98.499	101.8
	Low		QPSK	98.515	101.8
	Low		16QAM	97.468	101.4
	Low		64QAM	98.5	101.5
	Low		256QAM	98.303	101.6
	Low	CP-OFDM	QPSK	98.527	101.6
	Mid	DFT-s-OFDM	PI/2 BPSK	98.474	101.5
	Mid		QPSK	98.767	101.6
	Mid		16QAM	98.267	101.1
	Mid		64QAM	98.665	101.3
	Mid		256QAM	98.122	100.8
	Mid	CP-OFDM	QPSK	98.677	101.6
	High	DFT-s-OFDM	PI/2 BPSK	98.177	101.0
	High		QPSK	97.882	101.4
	High		16QAM	98.143	101.1
	High		64QAM	98.323	101.2
	High		256QAM	98.129	100.9
	High	CP-OFDM	QPSK	98.151	101.4

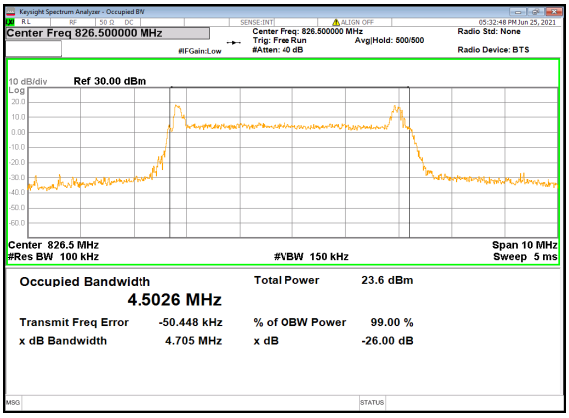
N66					
BW(MHz)	ChannelLevel	Modulation		99% BW(MHz)	26dB BW(MHz)
5	Low	DFT-s-OFDM	PI/2 BPSK	4.5121	4.672
	Low		QPSK	4.5079	4.716
	Low		16QAM	4.53	4.718
	Low		64QAM	4.5115	4.842
	Low		256QAM	4.4765	4.697
	Low	CP-OFDM	QPSK	4.5063	4.703
	Mid	DFT-s-OFDM	PI/2 BPSK	4.4586	4.711
	Mid		QPSK	4.5091	4.708
	Mid		16QAM	4.5137	4.653
	Mid		64QAM	4.5111	4.704
	Mid		256QAM	4.5176	4.727
	Mid	CP-OFDM	QPSK	4.5076	4.675
	High	DFT-s-OFDM	PI/2 BPSK	4.5045	4.686
	High		QPSK	4.5053	4.724
	High		16QAM	4.4707	4.688
	High		64QAM	4.4704	4.64
	High		256QAM	4.5099	4.703
	High	CP-OFDM	QPSK	4.4947	4.713
10	Low	DFT-s-OFDM	PI/2 BPSK	9.018	9.326
	Low		QPSK	9.027	9.371
	Low		16QAM	8.9622	9.284
	Low		64QAM	9.0165	9.388
	Low		256QAM	9.0497	9.399
	Low	CP-OFDM	QPSK	9.0449	9.418
	Mid	DFT-s-OFDM	PI/2 BPSK	9.0085	9.317
	Mid		QPSK	9.0359	9.382
	Mid		16QAM	9.0045	9.355
	Mid		64QAM	9.0129	9.423
	Mid		256QAM	9.0199	9.341
	Mid	CP-OFDM	QPSK	9.3391	9.708
	High	DFT-s-OFDM	PI/2 BPSK	9.0782	9.355
	High		QPSK	9.0005	9.348
	High		16QAM	9.0398	9.394
	High		64QAM	9.0613	9.378
	High		256QAM	9.0321	9.377

	High	CP-OFDM	QPSK	9.0862	9.425
15	Low	DFT-s-OFDM	PI/2 BPSK	13.461	14.04
	Low		QPSK	13.598	14.06
	Low		16QAM	13.573	14.11
	Low		64QAM	13.579	13.97
	Low		256QAM	13.564	14.03
	Low	CP-OFDM	QPSK	14.26	14.81
	Mid	DFT-s-OFDM	PI/2 BPSK	13.501	13.98
	Mid		QPSK	13.686	14.13
	Mid		16QAM	13.533	14.04
	Mid		64QAM	13.587	14.06
	Mid		256QAM	13.617	14.1
	Mid	CP-OFDM	QPSK	13.545	14.06
	High	DFT-s-OFDM	PI/2 BPSK	13.556	14.09
	High		QPSK	13.55	14.06
	High		16QAM	13.576	14.1
	High		64QAM	13.624	14.12
	High		256QAM	13.542	14.01
	High	CP-OFDM	QPSK	13.577	14.08
20	Low	DFT-s-OFDM	PI/2 BPSK	18.086	18.75
	Low		QPSK	18.141	18.74
	Low		16QAM	18.107	18.77
	Low		64QAM	18.169	18.77
	Low		256QAM	18.142	18.7
	Low	CP-OFDM	QPSK	18.079	18.75
	Mid	DFT-s-OFDM	PI/2 BPSK	18.02	18.66
	Mid		QPSK	18.05	18.73
	Mid		16QAM	18.092	18.7
	Mid		64QAM	18.163	18.8
	Mid		256QAM	18.071	18.63
	Mid	CP-OFDM	QPSK	19.205	19.89
	High	DFT-s-OFDM	PI/2 BPSK	18.106	18.71
	High		QPSK	18.107	18.72
	High		16QAM	18.087	18.77
	High		64QAM	18.025	18.68
	High		256QAM	18.307	18.86
	High	CP-OFDM	QPSK	19.178	19.83

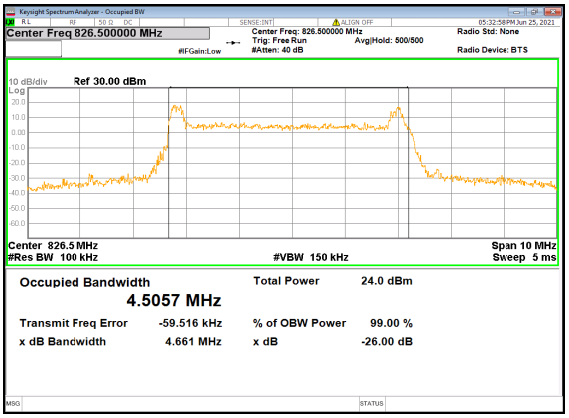
N5(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



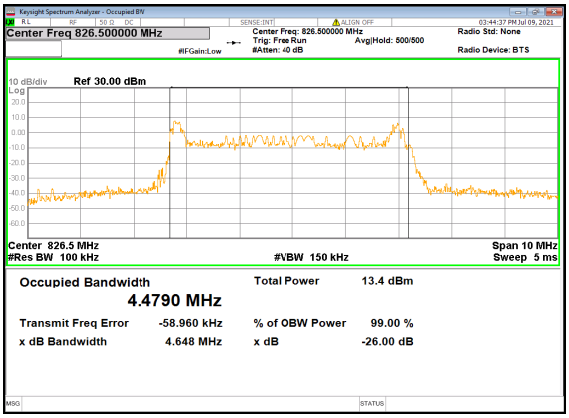
N5(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



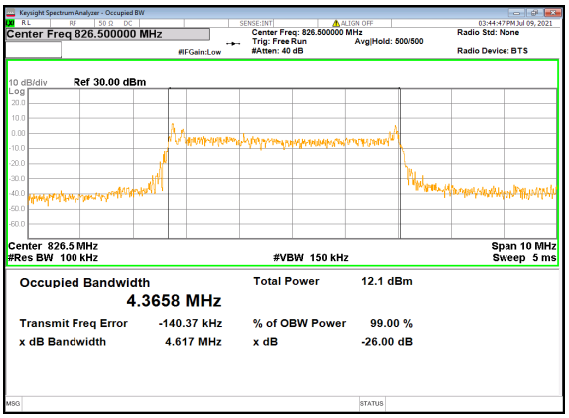
N5(5M)_DFT-s-OFDM_16QAM_Outer_Full_Low_CH



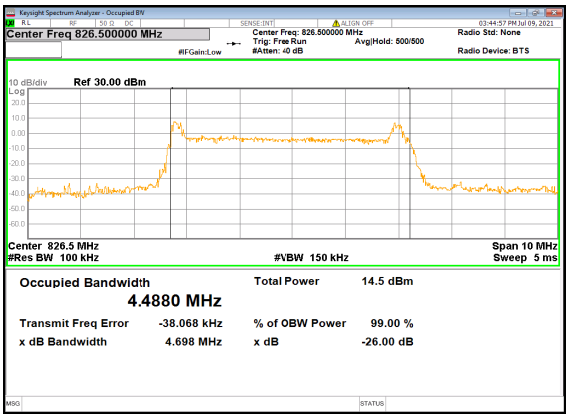
N5(5M)_DFT-s-OFDM_64QAM_Outer_Full_Low_CH



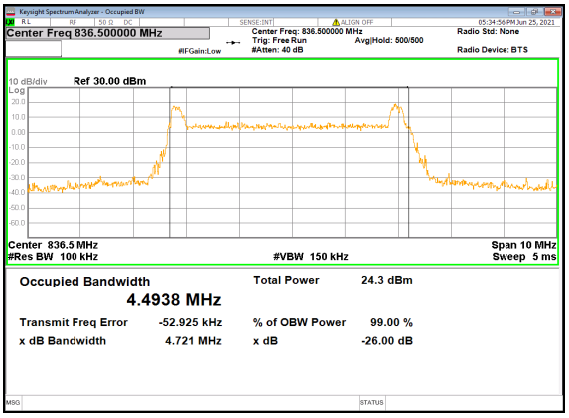
N5(5M)_DFT-s-OFDM_256QAM_Outer_Full_Low_CH



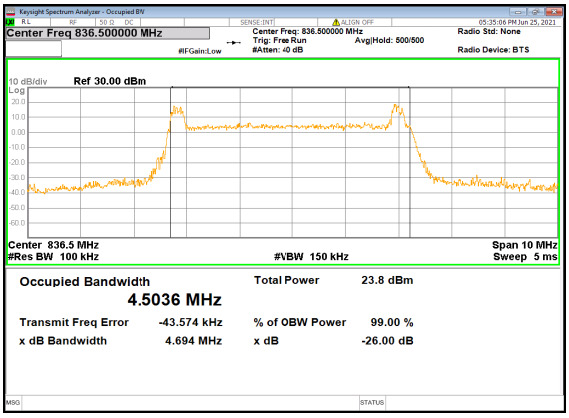
N5(5M)_CP-OFDM_QPSK_Outer_Full_Low_CH



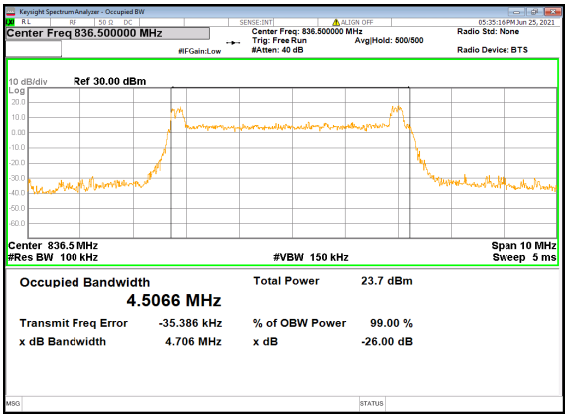
N5(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



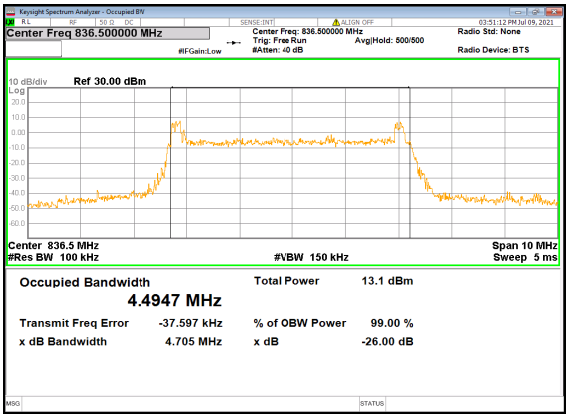
N5(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



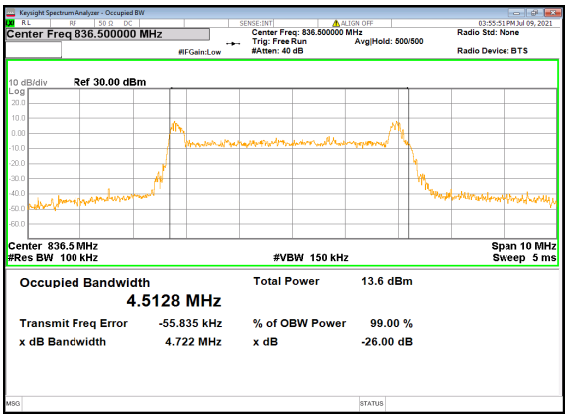
N5(5M)_DFT-s-OFDM_16QAM_Outer_Full_Mid_CH



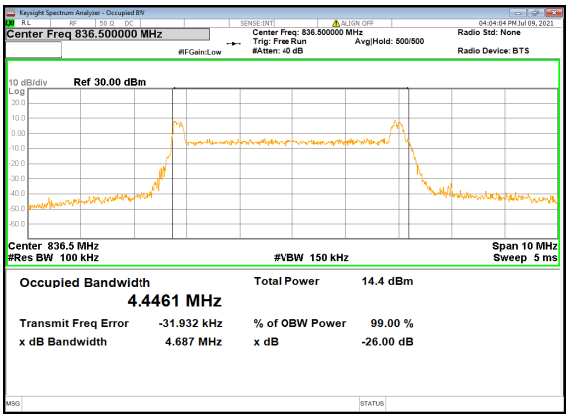
N5(5M)_DFT-s-OFDM_64QAM_Outer_Full_Mid_CH



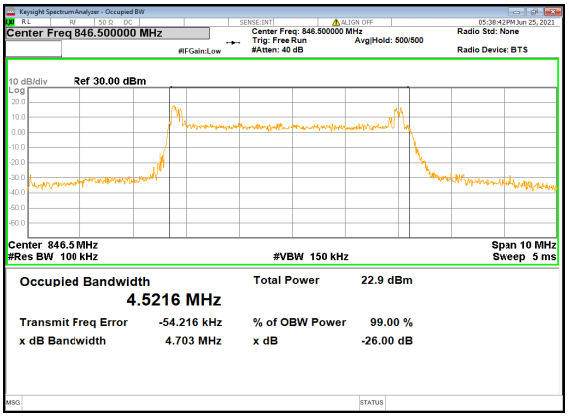
N5(5M)_DFT-s-OFDM_256QAM_Outer_Full_Mid_CH



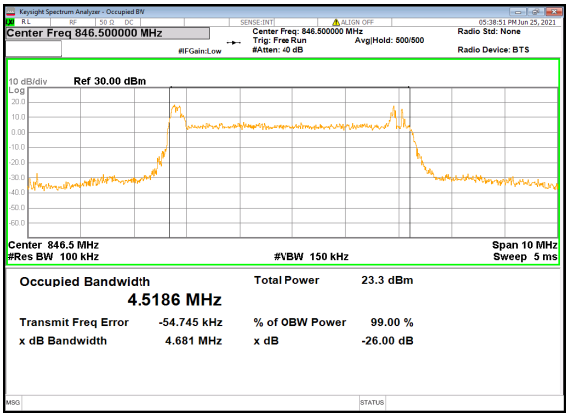
N5(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



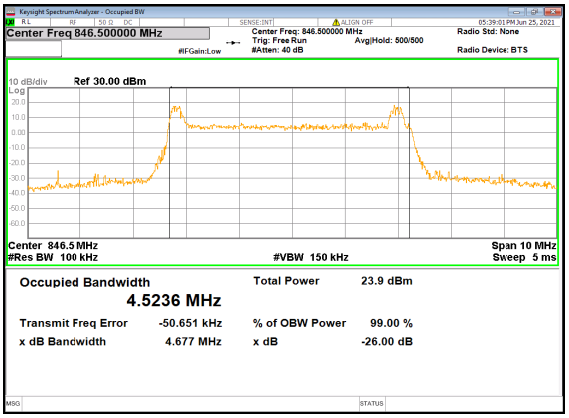
N5(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



N5(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N5(5M)_DFT-s-OFDM_16QAM_Outer_Full_High_CH



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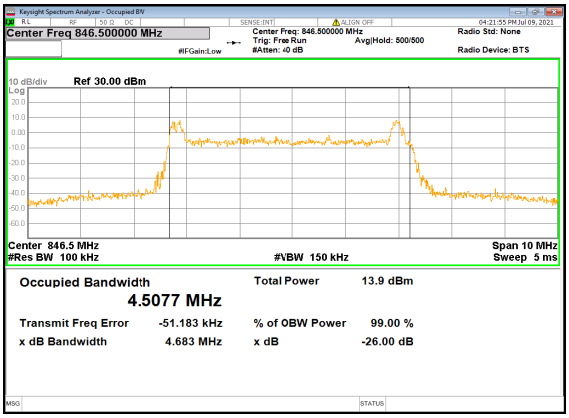

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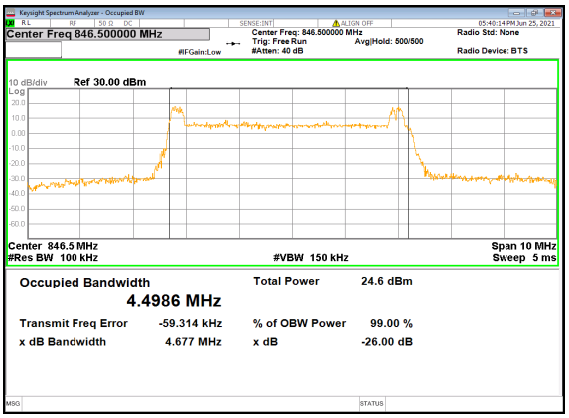
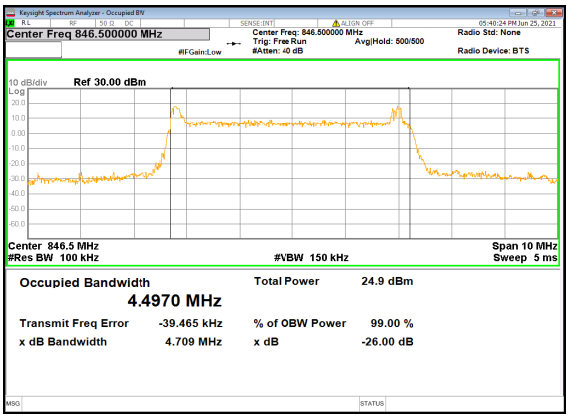
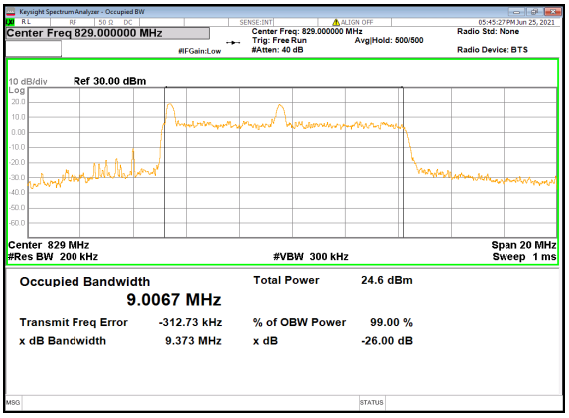


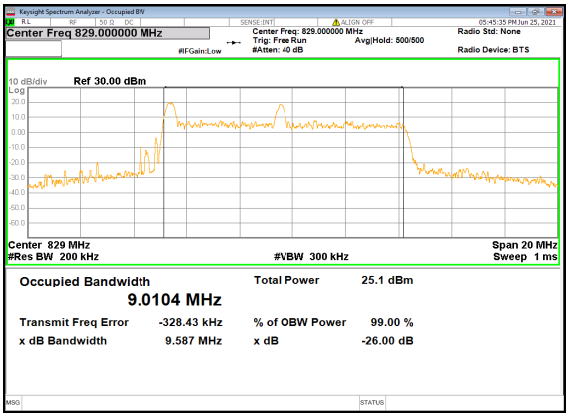
N5(5M)_CP-OFDM_QPSK_Outer_Full_High_CH



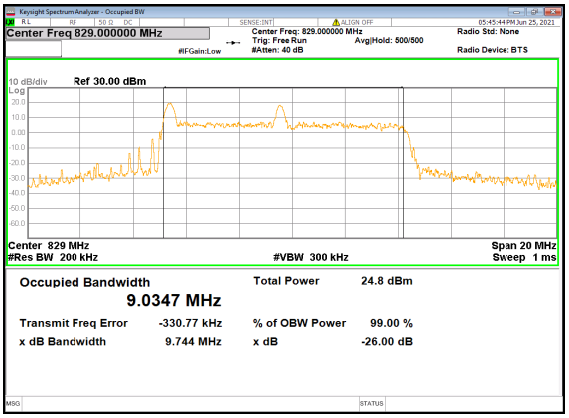
N5(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



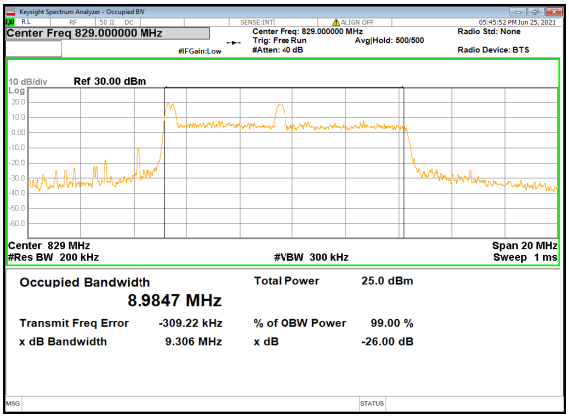
N5(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



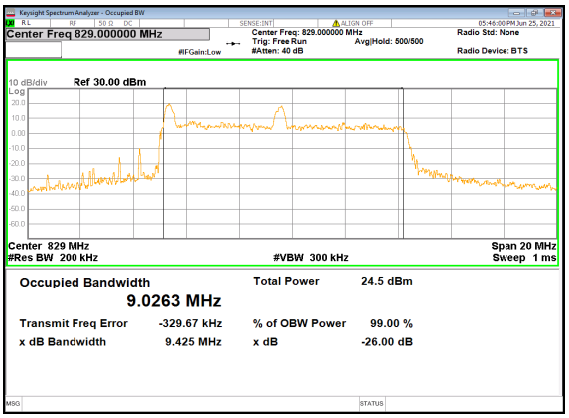
N5(10M)_DFT-s-OFDM_16QAM_Outer_Full_Low_CH



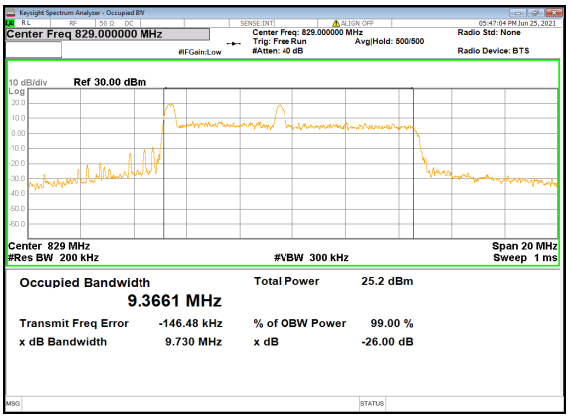
N5(10M)_DFT-s-OFDM_64QAM_Outer_Full_Low_CH



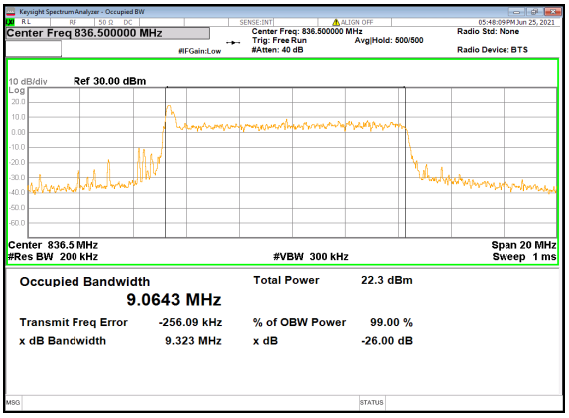
N5(10M)_DFT-s-OFDM_256QAM_Outer_Full_Low_CH



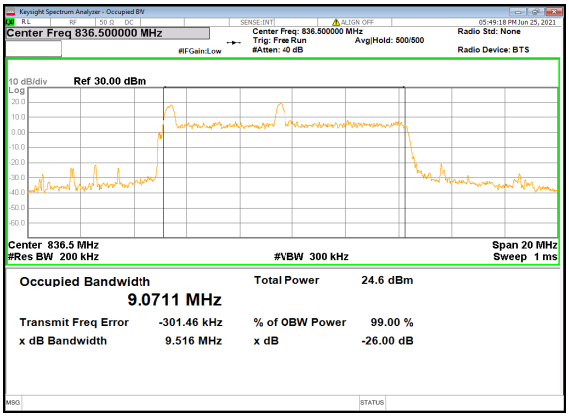
N5(10M)_CP-OFDM_QPSK_Outer_Full_Low_CH



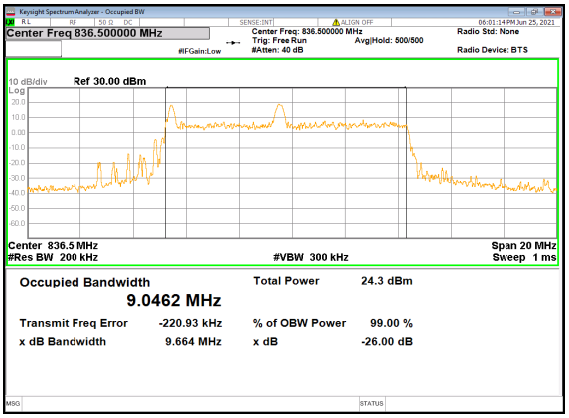
N5(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



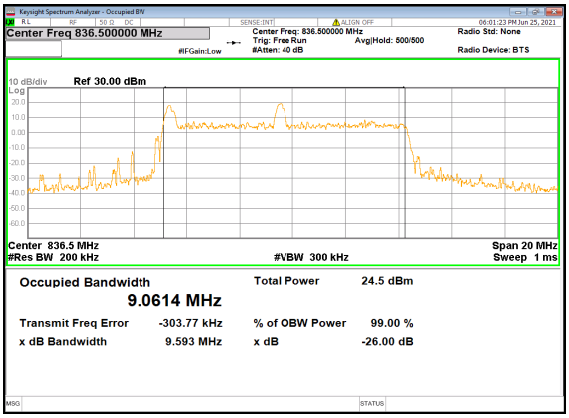
N5(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



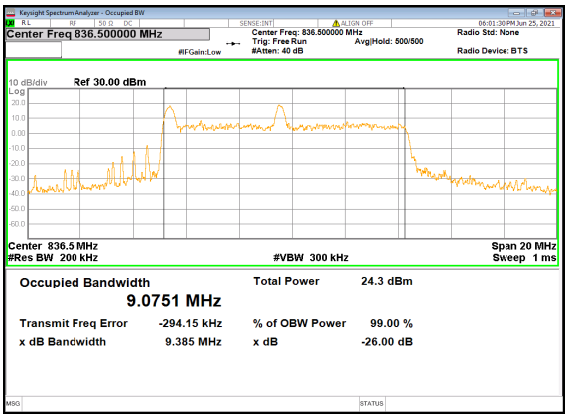
N5(10M)_DFT-s-OFDM_16QAM_Outer_Full_Mid_CH



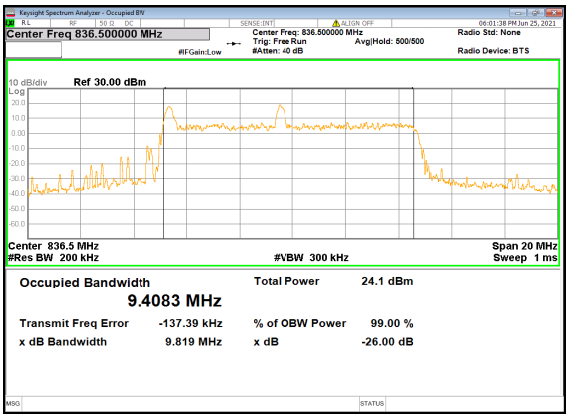
N5(10M)_DFT-s-OFDM_64QAM_Outer_Full_Mid_CH



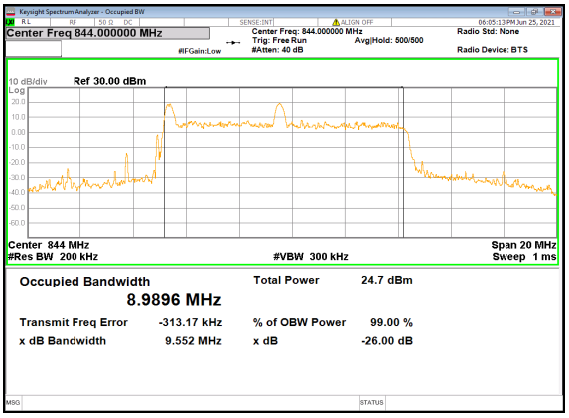
N5(10M)_DFT-s-OFDM_256QAM_Outer_Full_Mid_CH



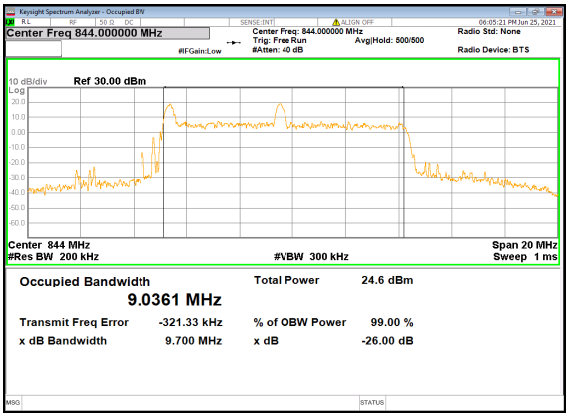
N5(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



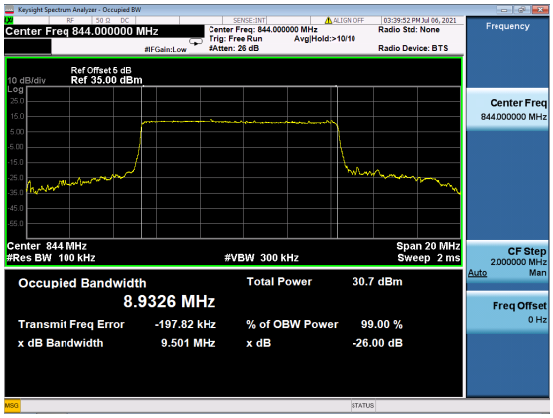
N5(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



N5(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

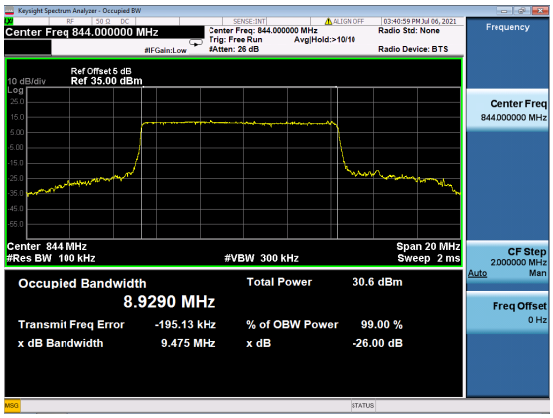


N5(10M)_DFT-s-OFDM_16QAM_Outer_Full_High_CH



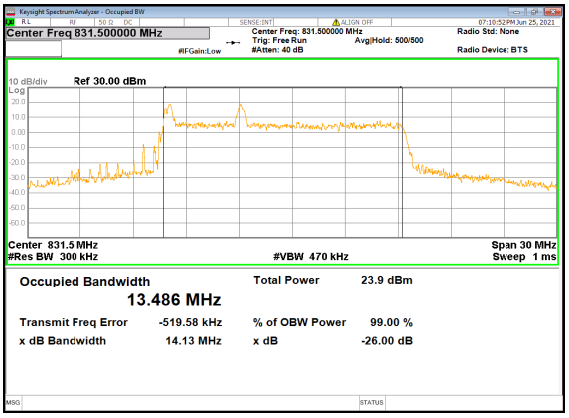
N5(10M)_DFT-s-OFDM_64QAM_Outer_Full_High_CH

N5(10M)_DFT-s-OFDM_256QAM_Outer_Full_High_CH

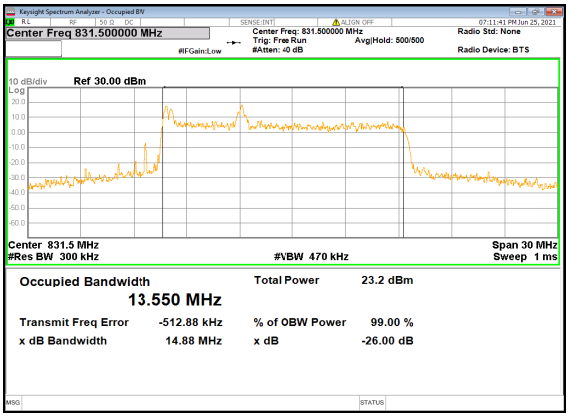


N5(10M)_CP-OFDM_QPSK_Outer_Full_High_CH

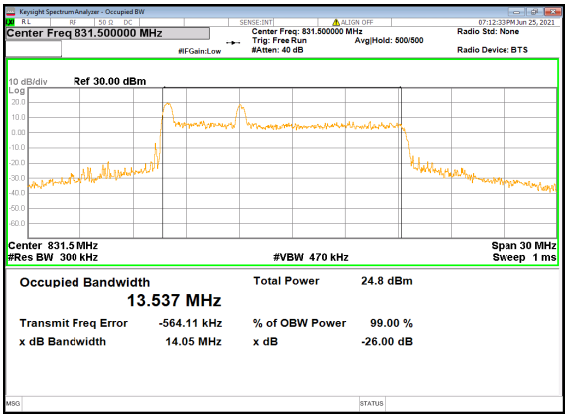
N5(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



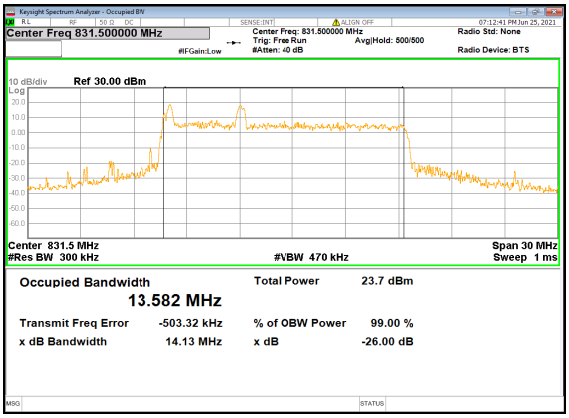
N5(15M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



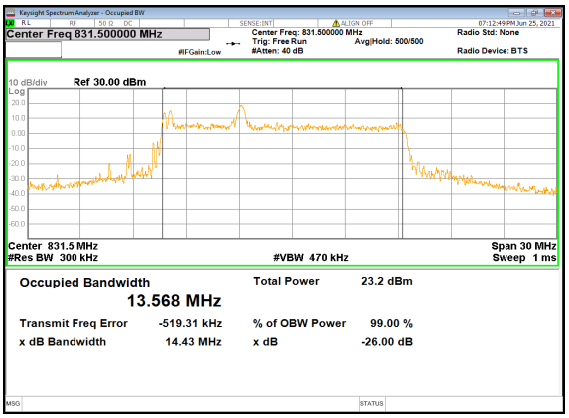
N5(15M)_DFT-s-OFDM_16QAM_Outer_Full_Low_CH



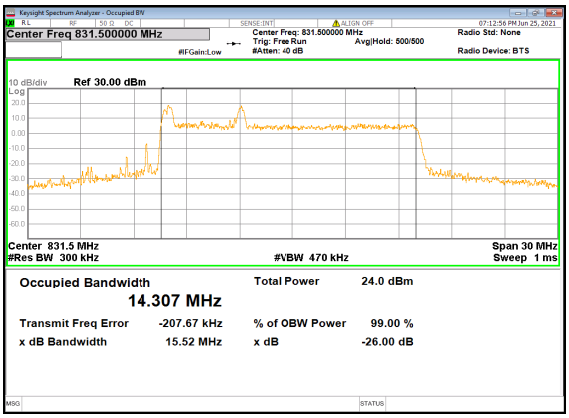
N5(15M)_DFT-s-OFDM_64QAM_Outer_Full_Low_CH



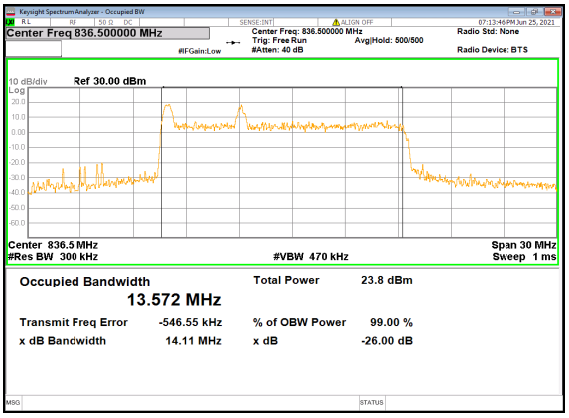
N5(15M)_DFT-s-OFDM_256QAM_Outer_Full_Low_CH



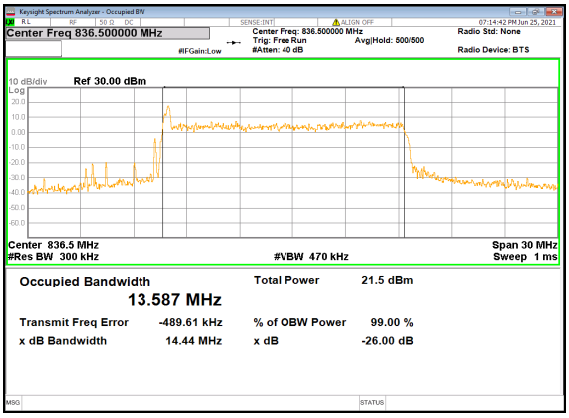
N5(15M)_CP-OFDM_QPSK_Outer_Full_Low_CH



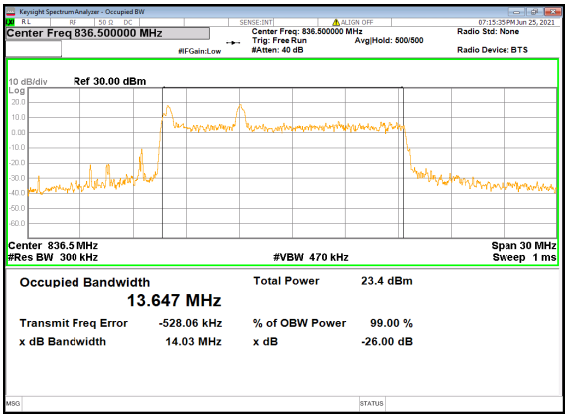
N5(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



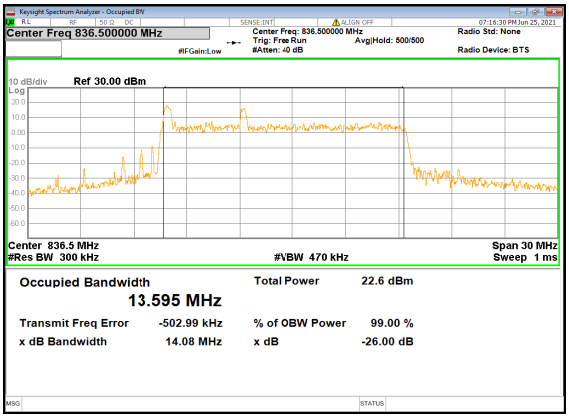
N5(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



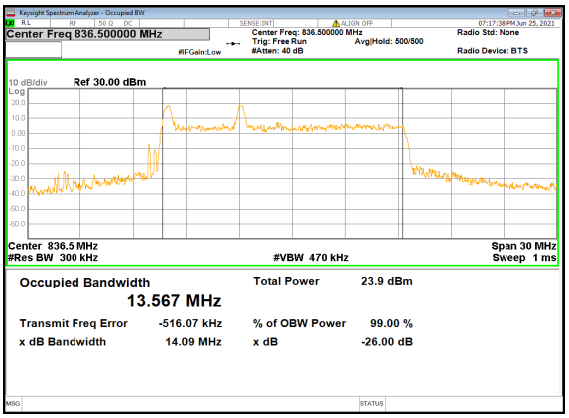
N5(15M)_DFT-s-OFDM_16 QAM_Outer_Full_Mid_CH



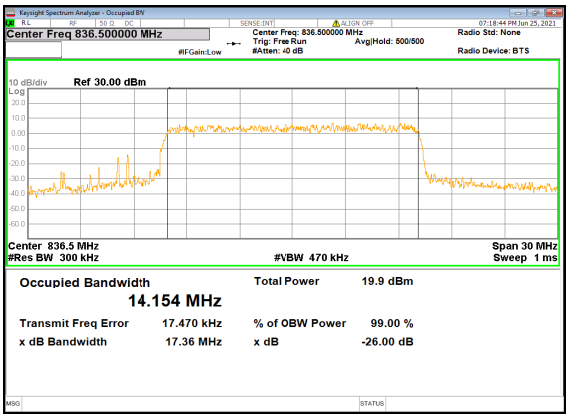
N5(15M)_DFT-s-OFDM_64 QAM_Outer_Full_Mid_CH



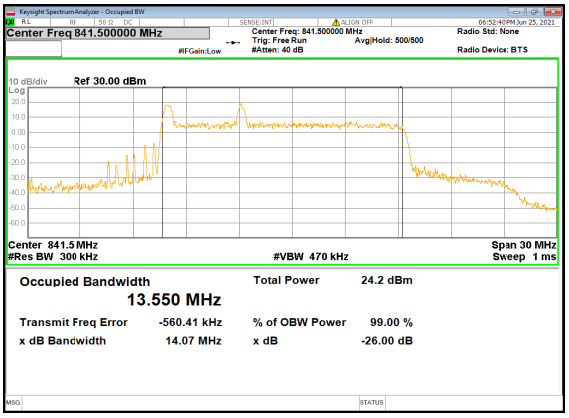
N5(15M)_DFT-s-OFDM_256 QAM_Outer_Full_Mid_CH



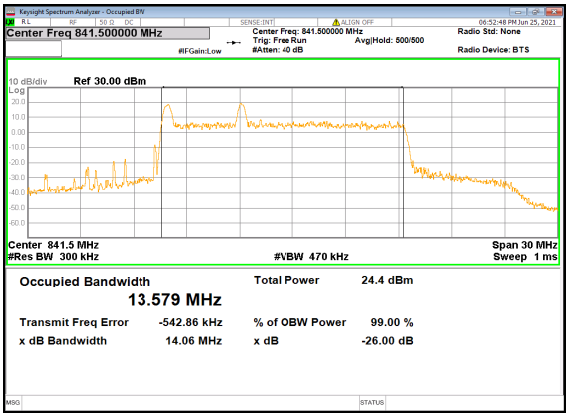
N5(15M)_CP-OFDM_QPSK_Outer_Full_Mid _CH



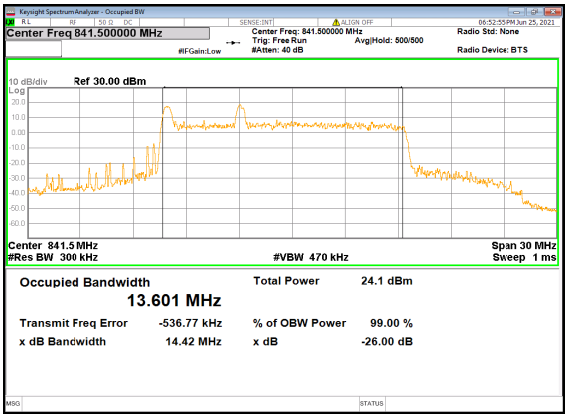
N5(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



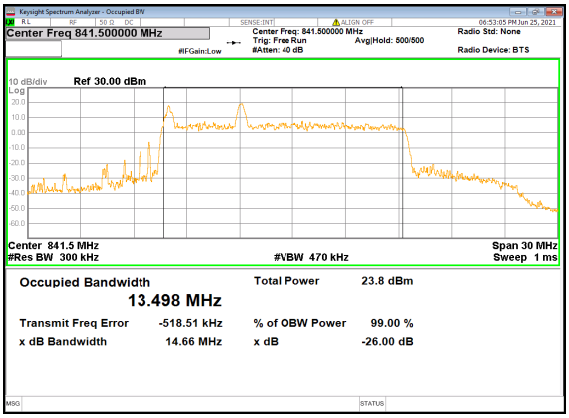
N5(15M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



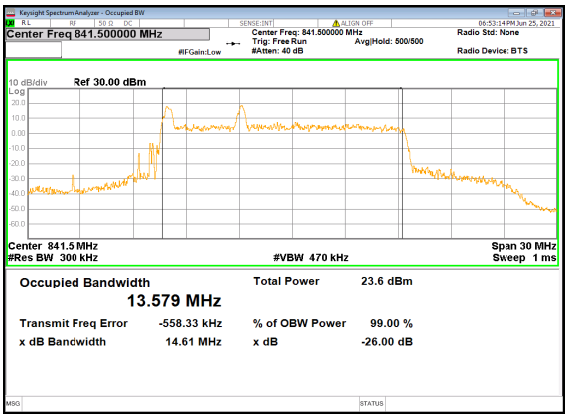
N5(15M)_DFT-s-OFDM_16 QAM_Outer_Full_High_CH



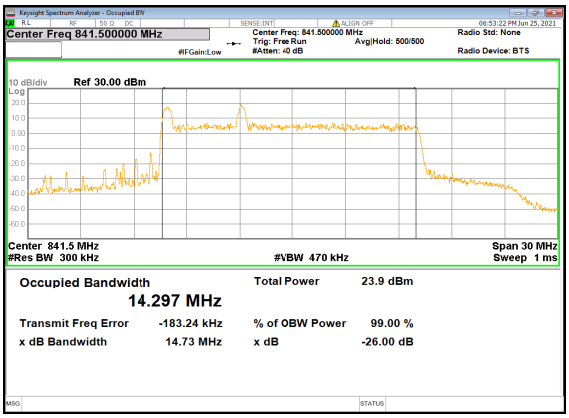
N5(15M)_DFT-s-OFDM_64 QAM_Outer_Full_High_CH



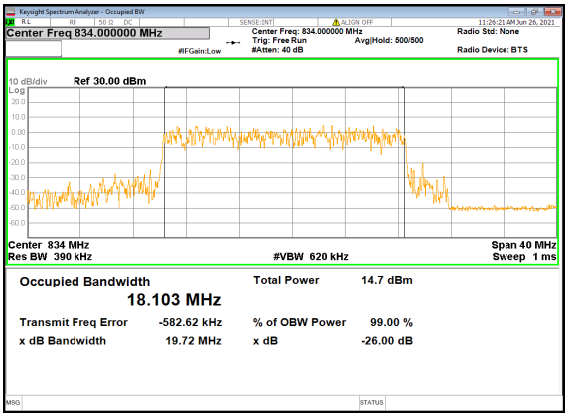
N5(15M)_DFT-s-OFDM_256 QAM_Outer_Full_High_CH



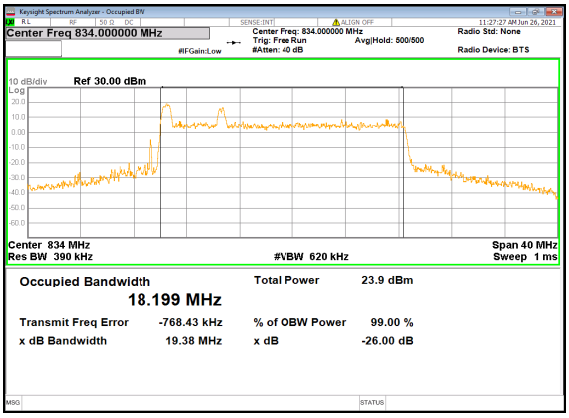
N5(15M)_CP-OFDM_QPSK_Outer_Full_High_CH



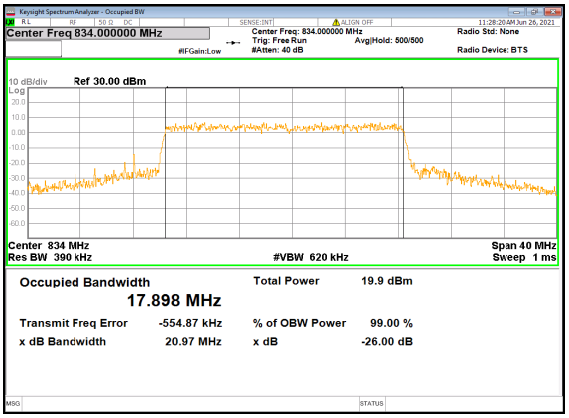
N5(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



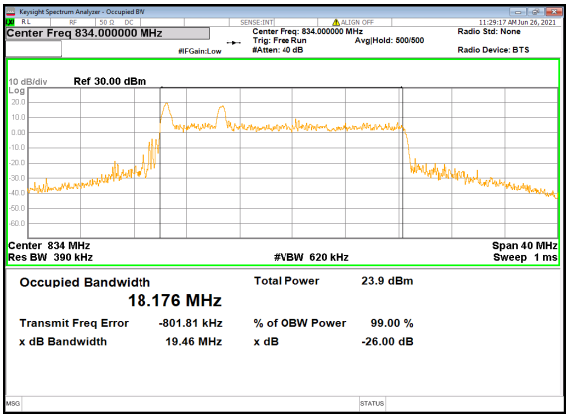
N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



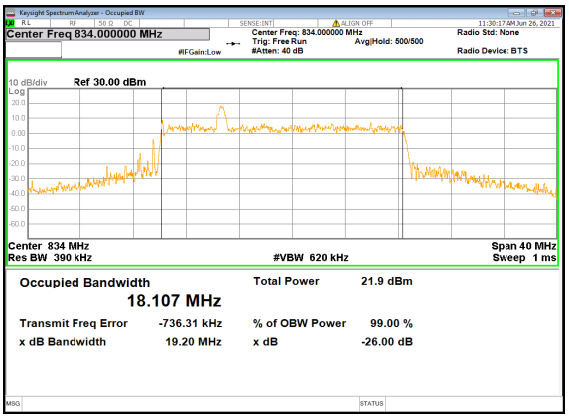
N5(20M)_DFT-s-OFDM_16QAM_Outer_Full_Low_CH



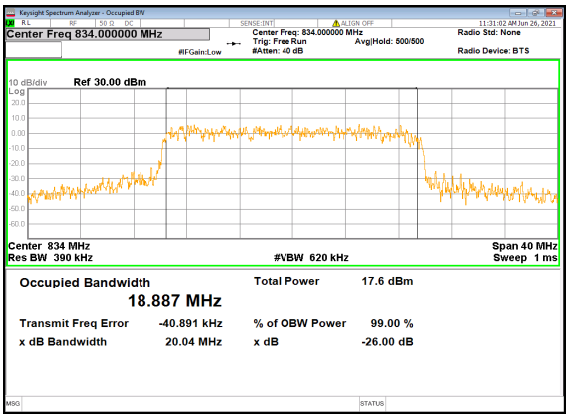
N5(20M)_DFT-s-OFDM_64QAM_Outer_Full_Low_CH



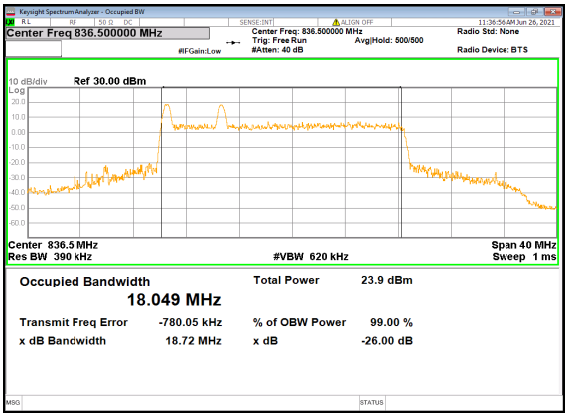
N5(20M)_DFT-s-OFDM_256QAM_Outer_Full_Low_CH



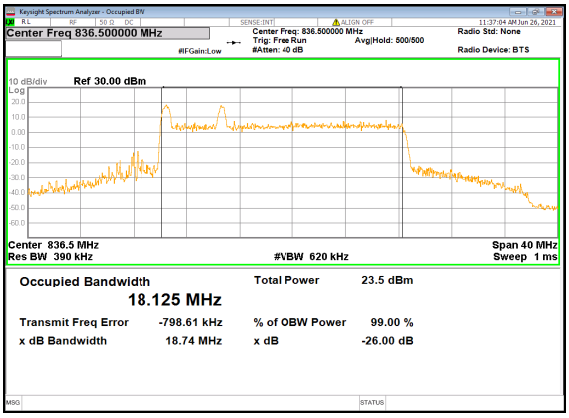
N5(20M)_CP-OFDM_QPSK_Outer_Full_Low_CH



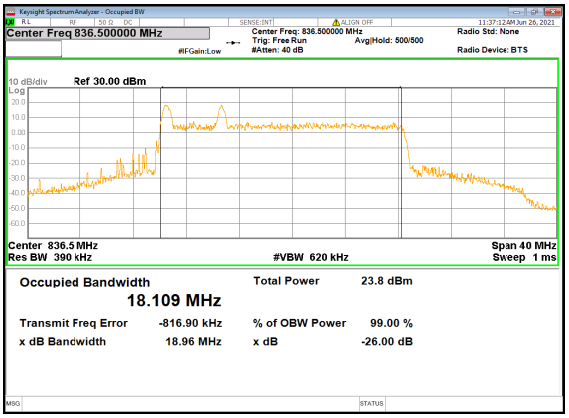
N5(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



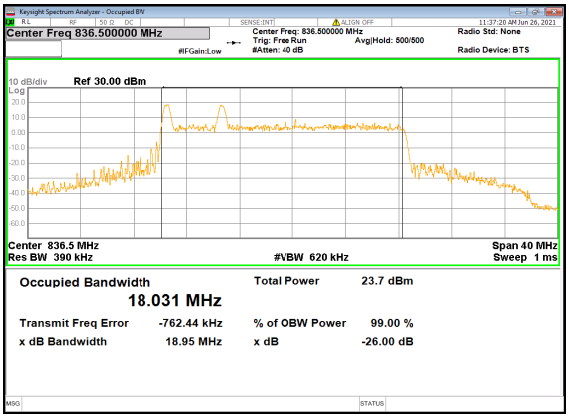
N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



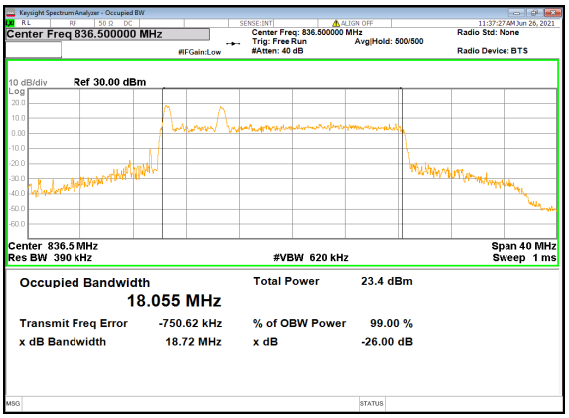
N5(20M)_DFT-s-OFDM_16 QAM_Outer_Full_Mid_CH



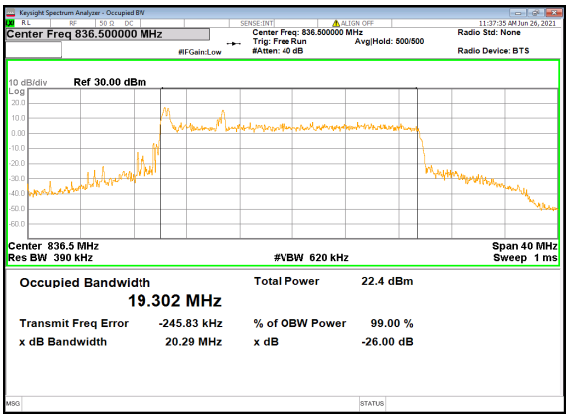
N5(20M)_DFT-s-OFDM_64 QAM_Outer_Full_Mid_CH



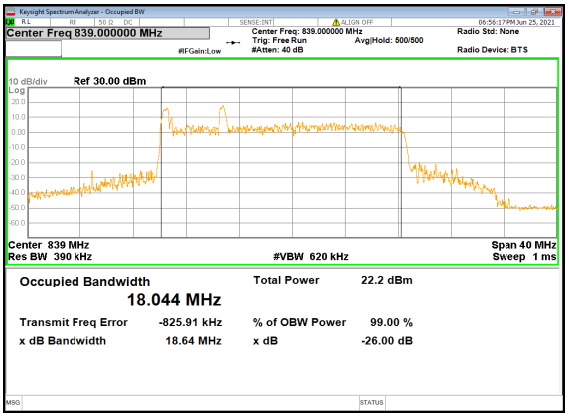
N5(20M)_DFT-s-OFDM_256 QAM_Outer_Full_Mid_CH



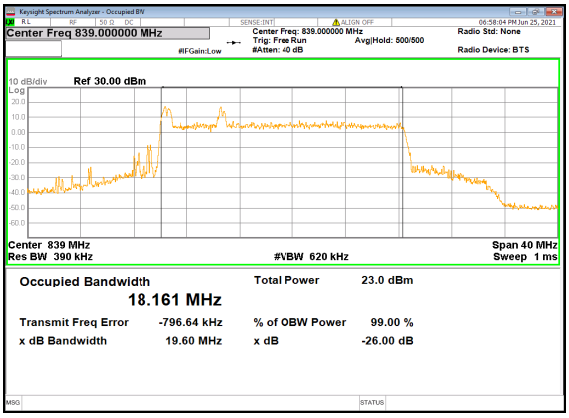
N5(20M)_CP-OFDM_QPSK_Outer_Full_Mid _CH



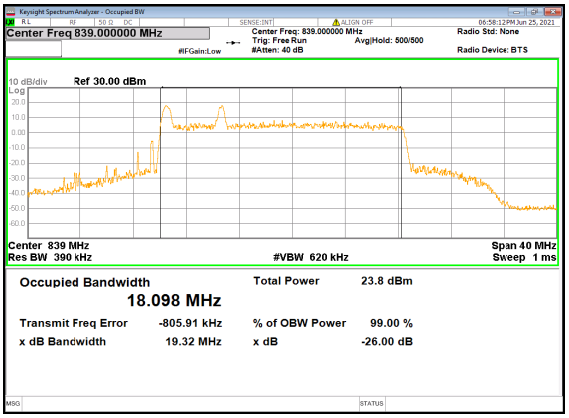
N5(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



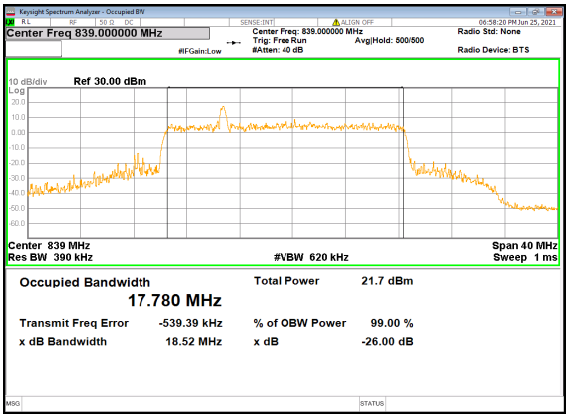
N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



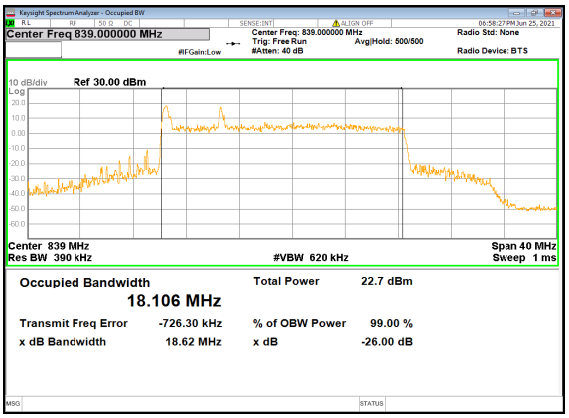
N5(20M)_DFT-s-OFDM_16 QAM_Outer_Full_High_CH



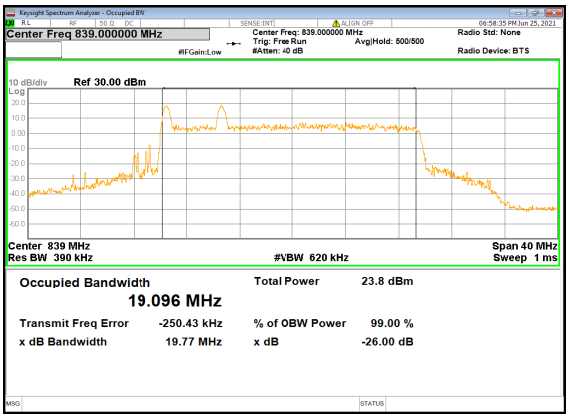
N5(20M)_DFT-s-OFDM_64 QAM_Outer_Full_High_CH



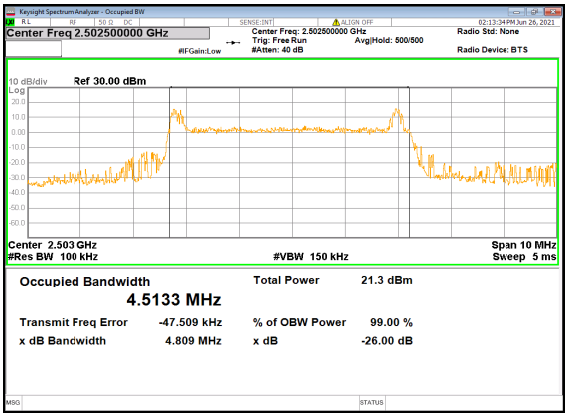
N5(20M)_DFT-s-OFDM_256 QAM_Outer_Full_High_CH



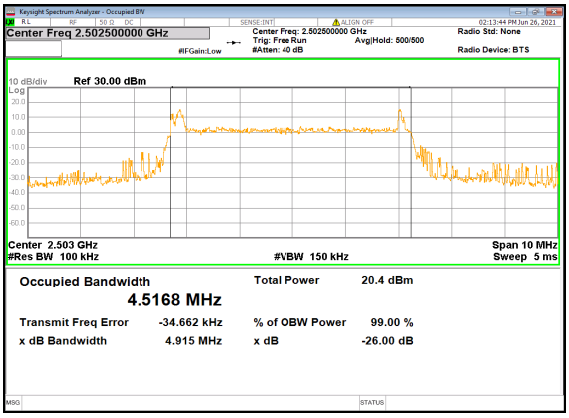
N5(20M)_CP-OFDM_QPSK_Outer_Full_High_CH



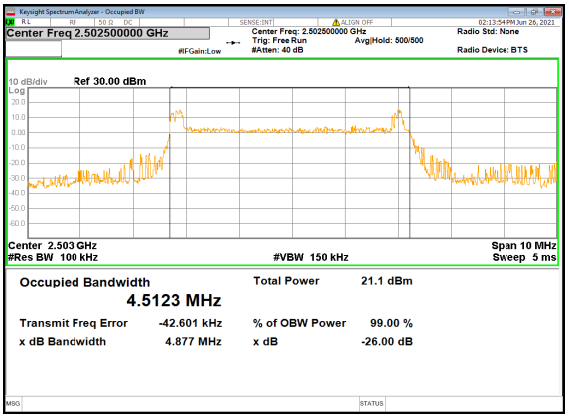
N7(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



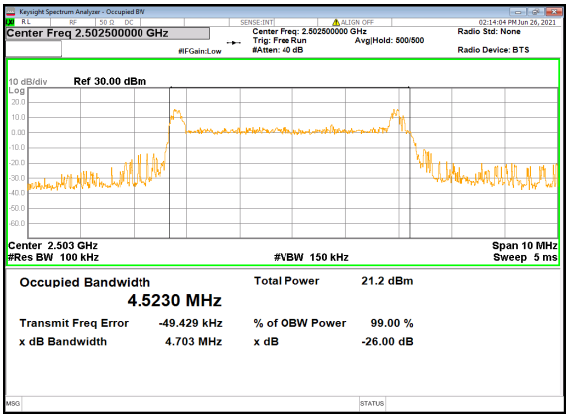
N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



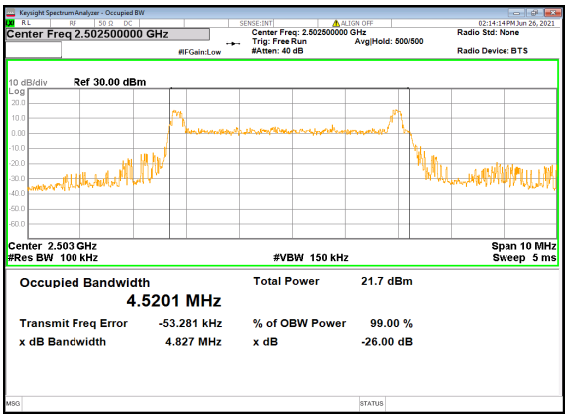
N7(5M)_DFT-s-OFDM_16 QAM_Outer_Full_Low_CH



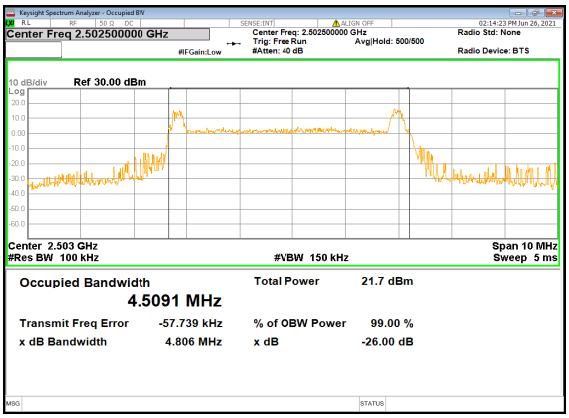
N7(5M)_DFT-s-OFDM_64 QAM_Outer_Full_Low_CH



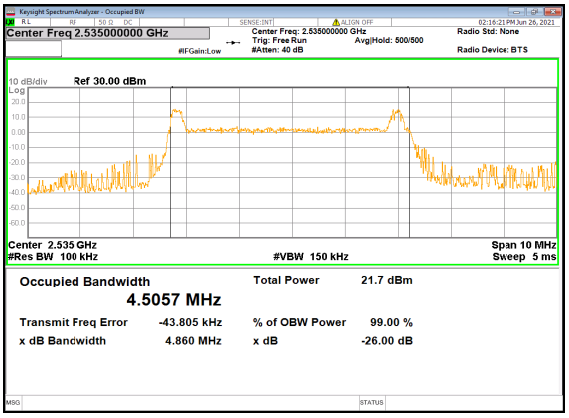
N7(5M)_DFT-s-OFDM_256 QAM_Outer_Full_Low_CH



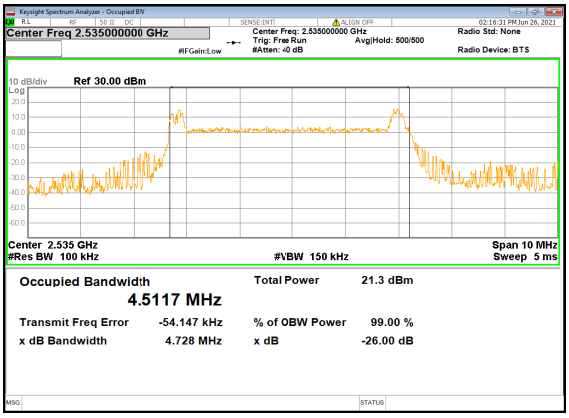
N7(5M)_CP-OFDM_QPSK_Outer_Full_Low_CH



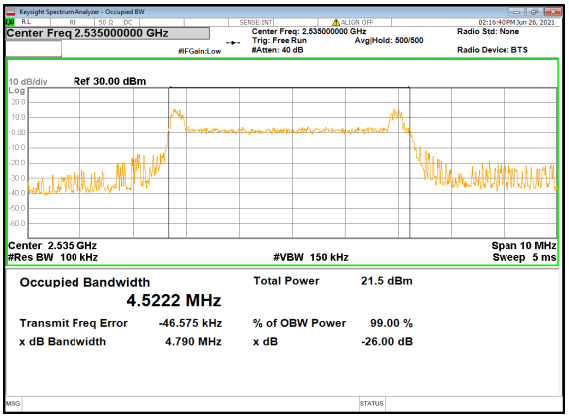
N7(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



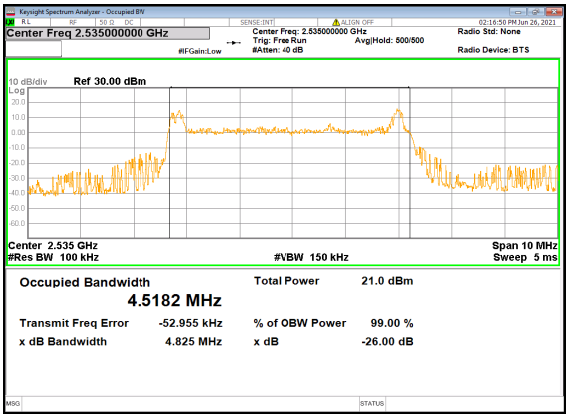
N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



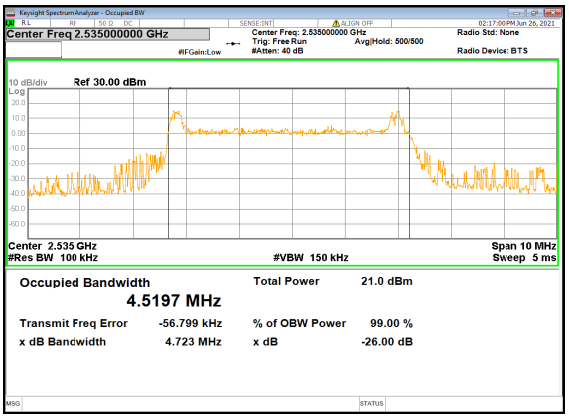
N7(5M)_DFT-s-OFDM_16QAM_Outer_Full_Mid_CH



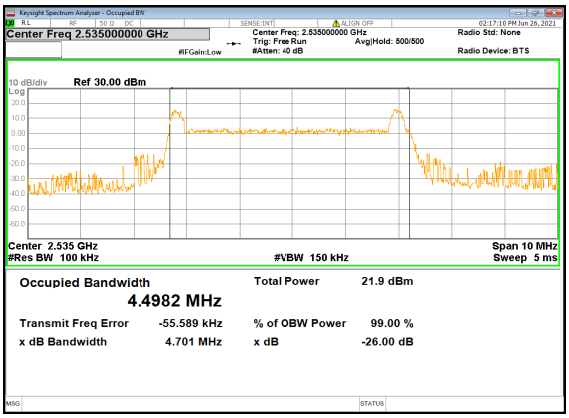
N7(5M)_DFT-s-OFDM_64QAM_Outer_Full_Mid_CH



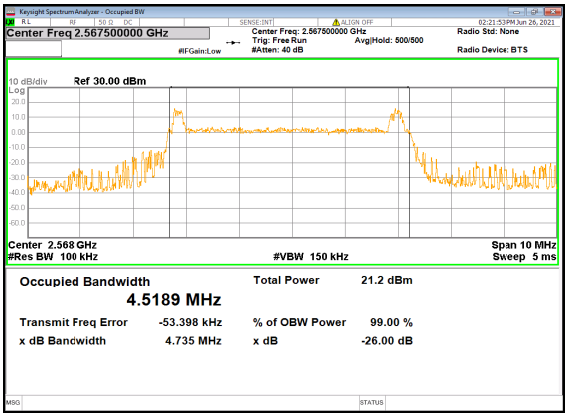
N7(5M)_DFT-s-OFDM_256QAM_Outer_Full_Mid_CH



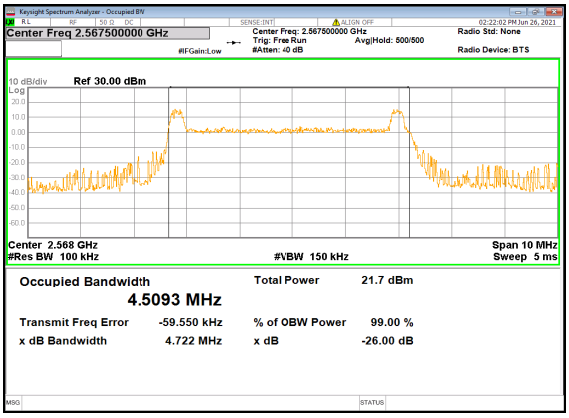
N7(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



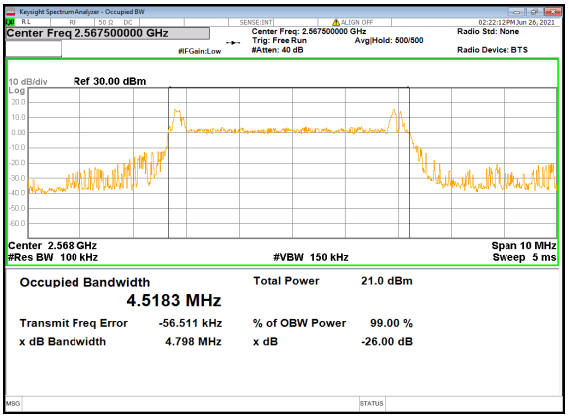
N7(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N7(5M)_DFT-s-OFDM_16QAM_Outer_Full_High_CH



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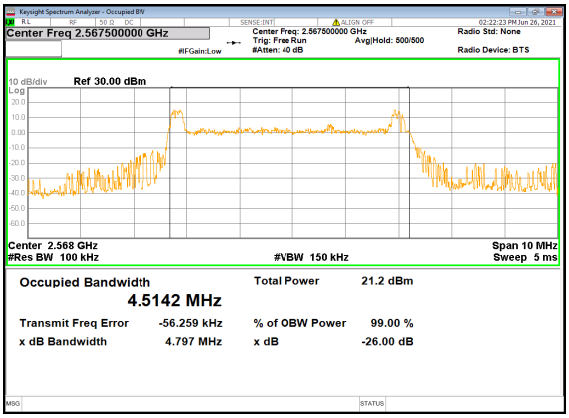
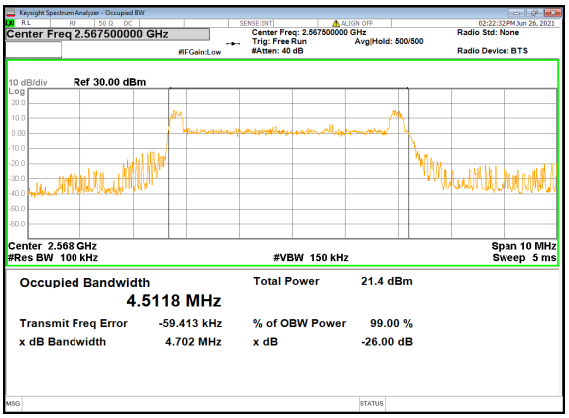
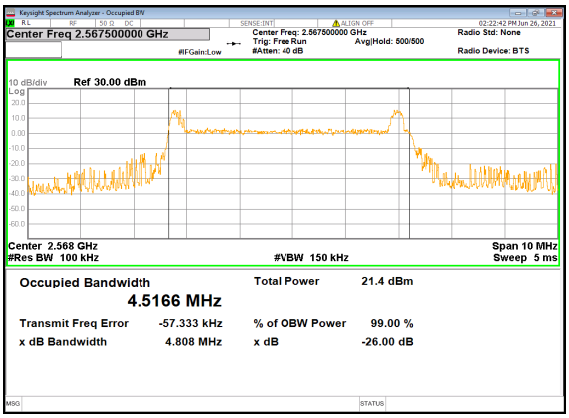


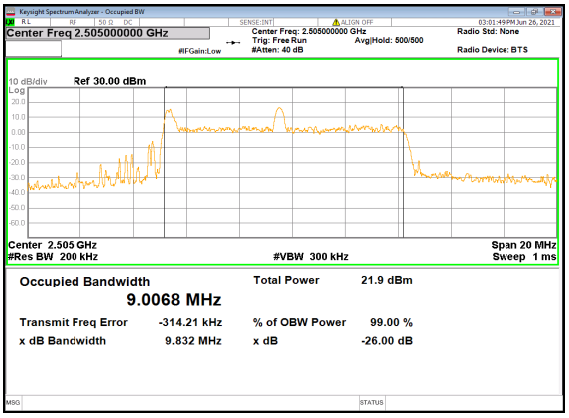
N7(5M)_DFT-s-OFDM_256QAM_Outer_Full_High_CH



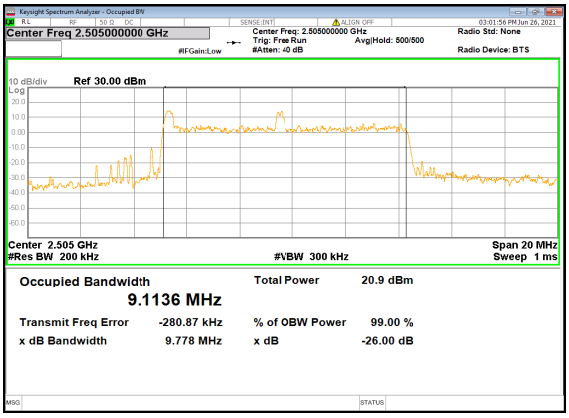
N7(5M)_CP-OFDM_QPSK_Outer_Full_High_CH



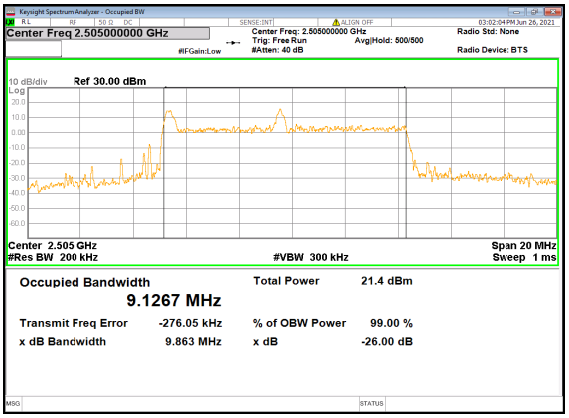
N7(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



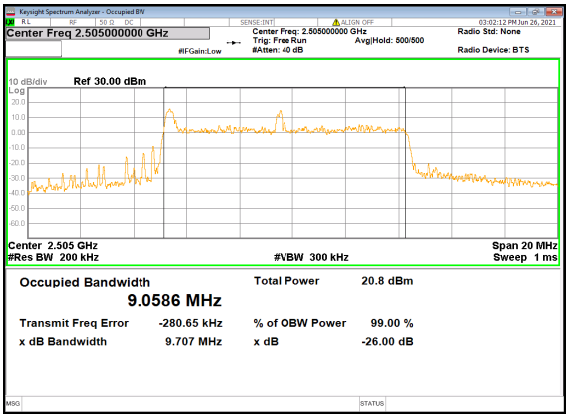
N7(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



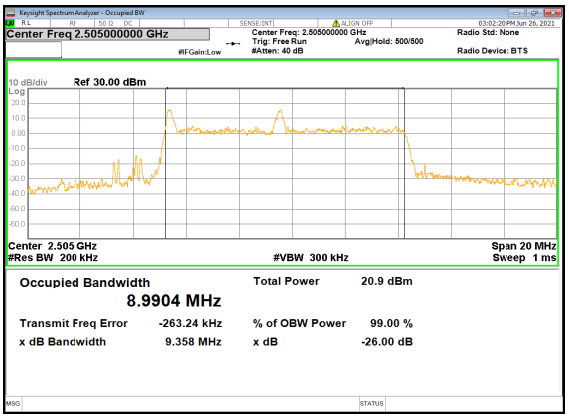
N7(10M)_DFT-s-OFDM_16 QAM_Outer_Full_Low_CH



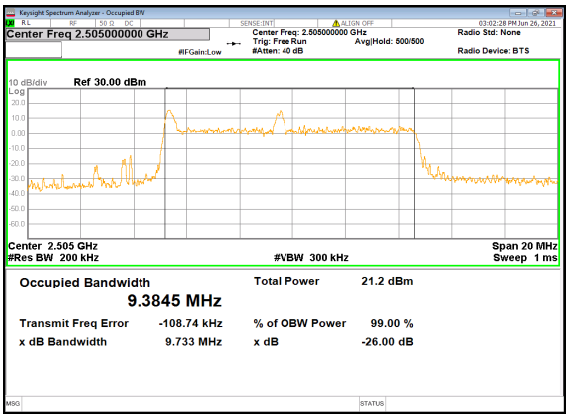
N7(10M)_DFT-s-OFDM_64 QAM_Outer_Full_Low_CH



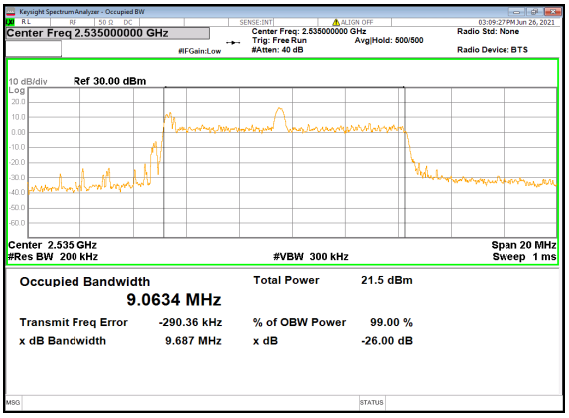
N7(10M)_DFT-s-OFDM_256 QAM_Outer_Full_Low_CH



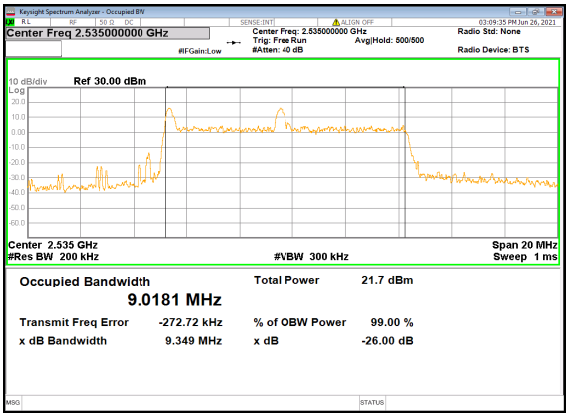
N7(10M)_CP-OFDM_QPSK_Outer_Full_Low_CH



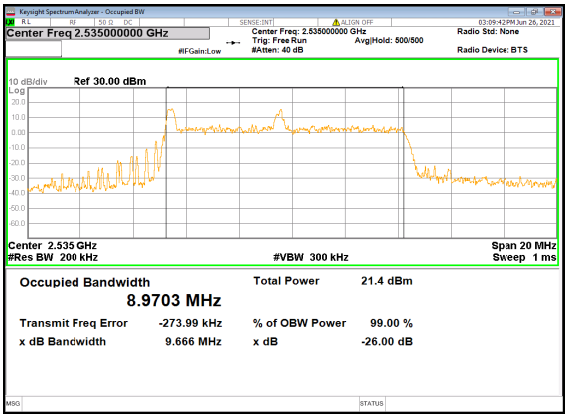
N7(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



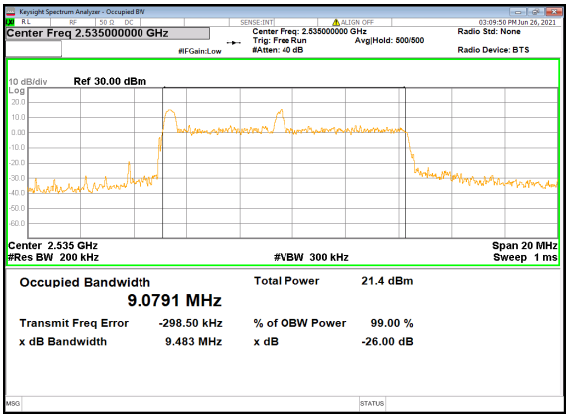
N7(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



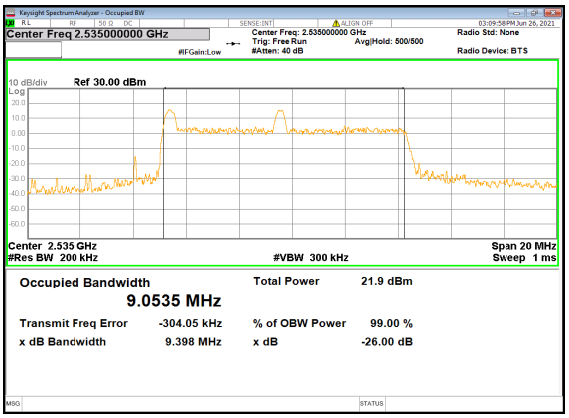
N7(10M)_DFT-s-OFDM_16 QAM_Outer_Full_Mid_CH



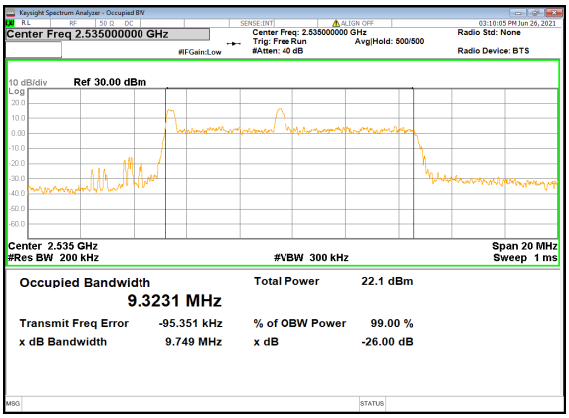
N7(10M)_DFT-s-OFDM_64 QAM_Outer_Full_Mid_CH



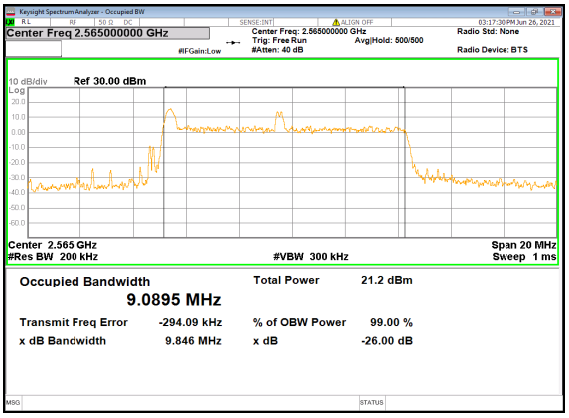
N7(10M)_DFT-s-OFDM_256 QAM_Outer_Full_Mid_CH



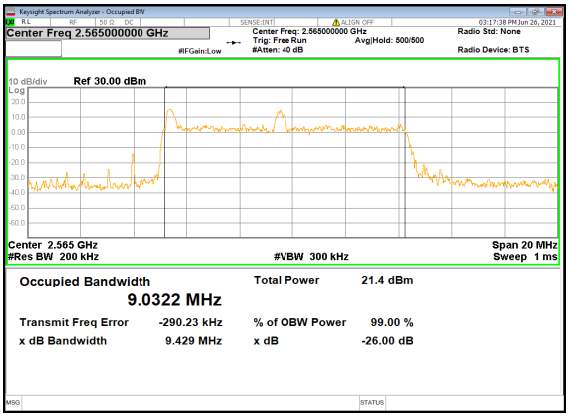
N7(10M)_CP-OFDM_QPSK_Outer_Full_Mid _CH



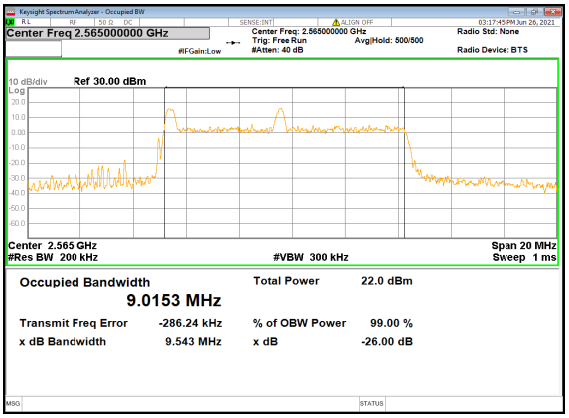
N7(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



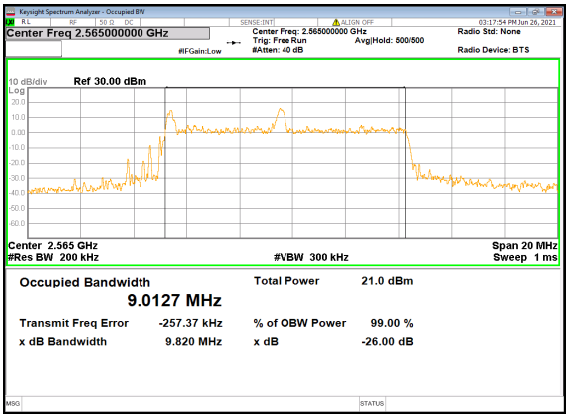
N7(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



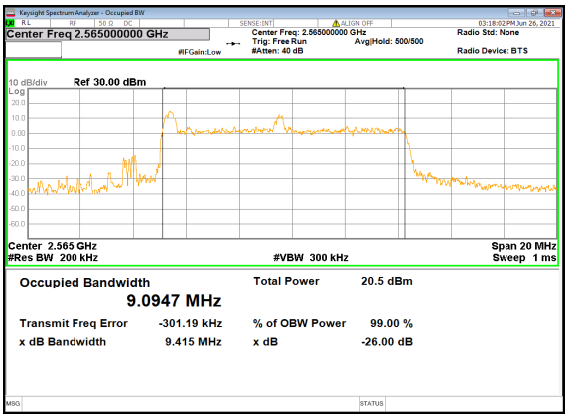
N7(10M)_DFT-s-OFDM_16 QAM_Outer_Full_High_CH



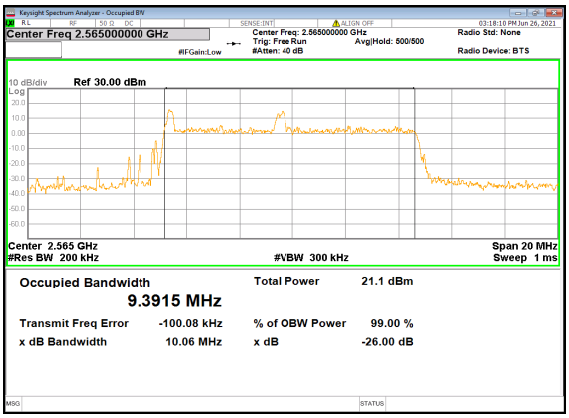
N7(10M)_DFT-s-OFDM_64 QAM_Outer_Full_High_CH



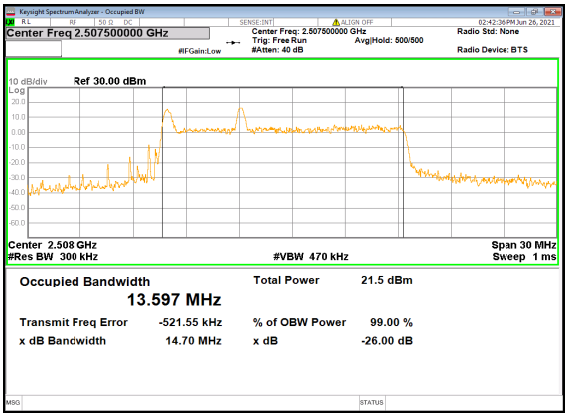
N7(10M)_DFT-s-OFDM_256 QAM_Outer_Full_High_CH



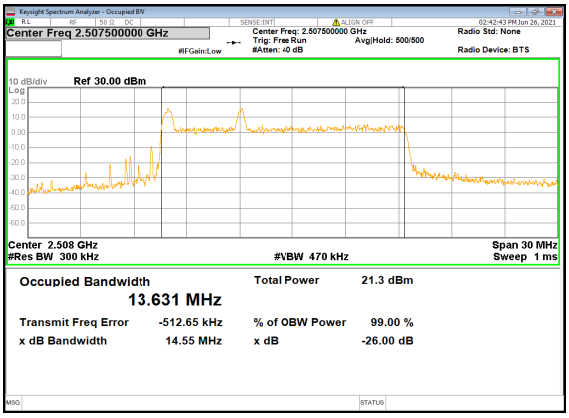
N7(10M)_CP-OFDM_QPSK_Outer_Full_High_CH



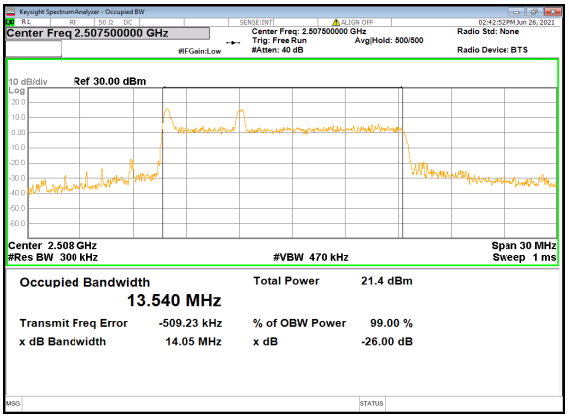
N7(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



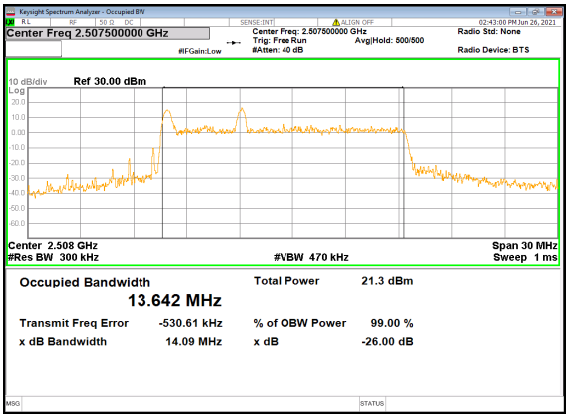
N7(15M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



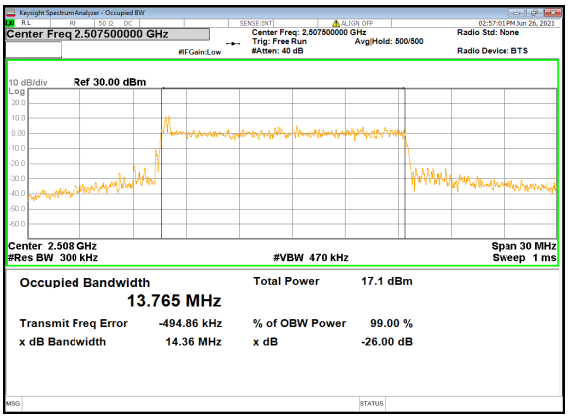
N7(15M)_DFT-s-OFDM_16 QAM_Outer_Full_Low_CH



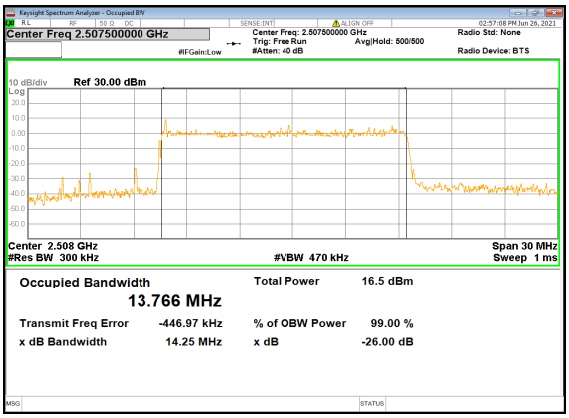
N7(15M)_DFT-s-OFDM_64 QAM_Outer_Full_Low_CH



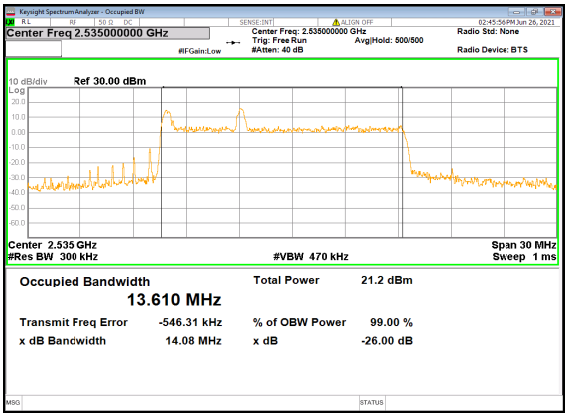
N7(15M)_DFT-s-OFDM_256 QAM_Outer_Full_Low_CH



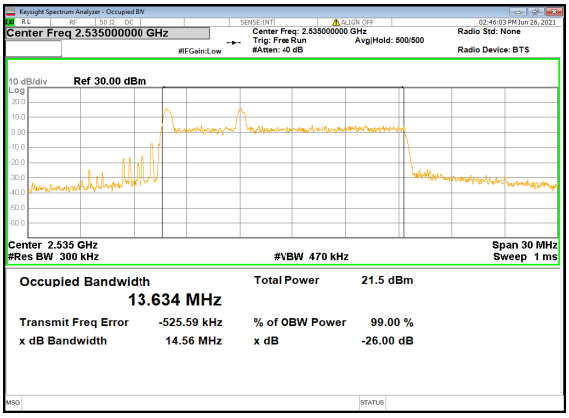
N7(15M)_CP-OFDM_QPSK_Outer_Full_Low _CH



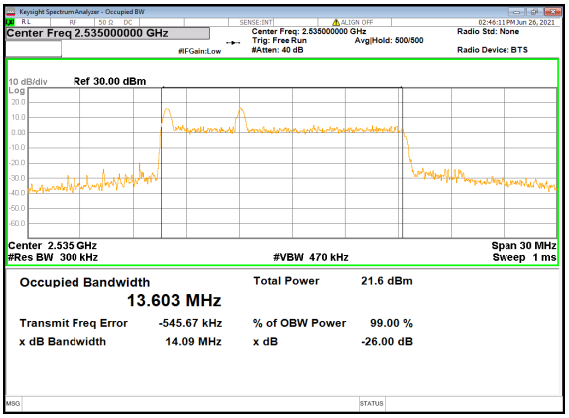
N7(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



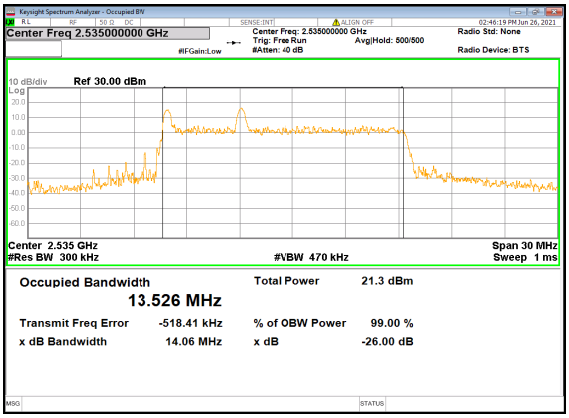
N7(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



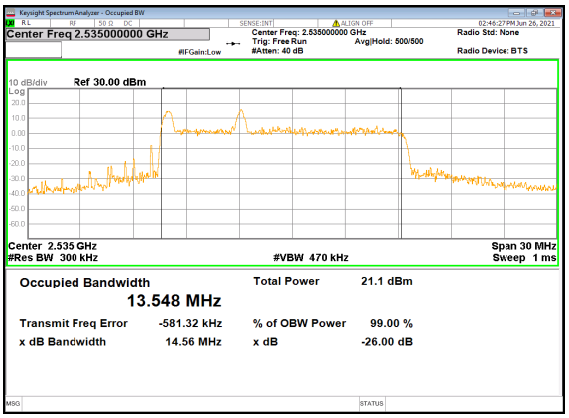
N7(15M)_DFT-s-OFDM_16 QAM_Outer_Full_Mid_CH



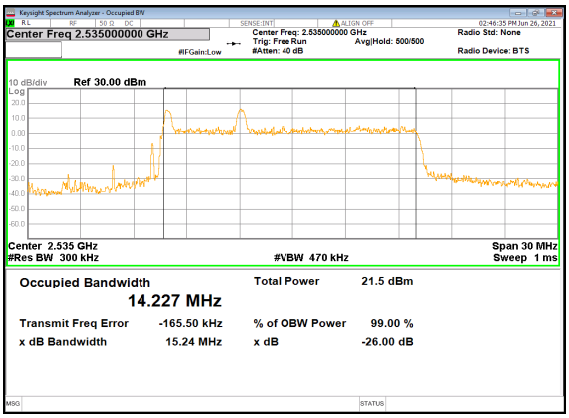
N7(15M)_DFT-s-OFDM_64 QAM_Outer_Full_Mid_CH



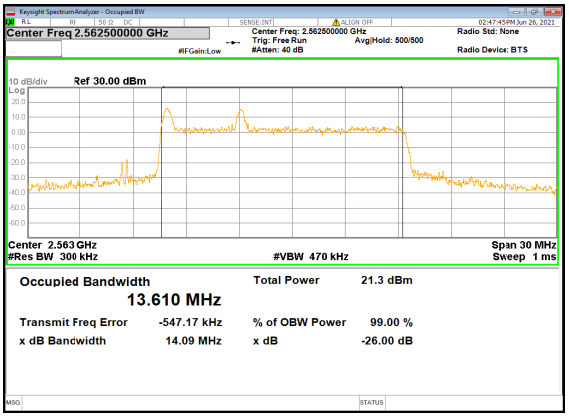
N7(15M)_DFT-s-OFDM_256 QAM_Outer_Full_Mid_CH



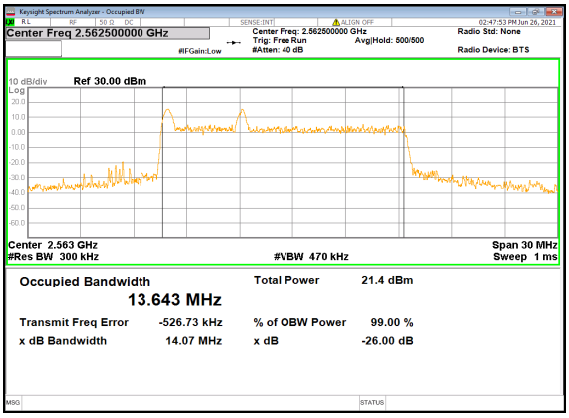
N7(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



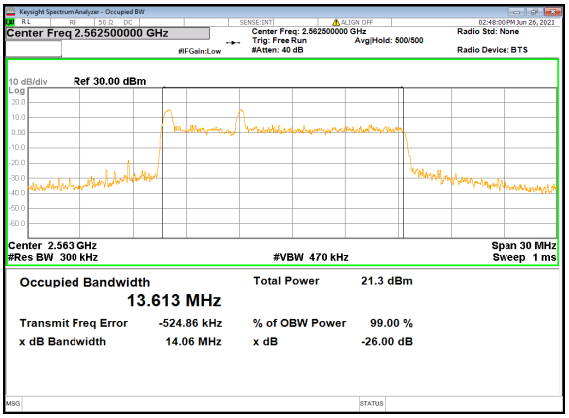
N7(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



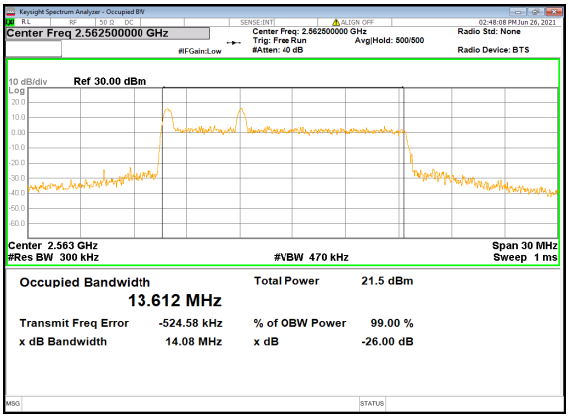
N7(15M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



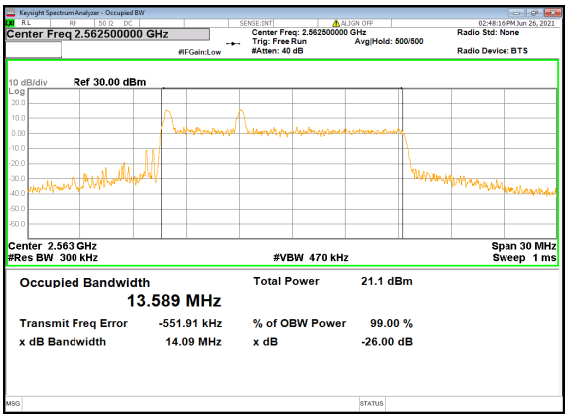
N7(15M)_DFT-s-OFDM_16 QAM_Outer_Full_High_CH



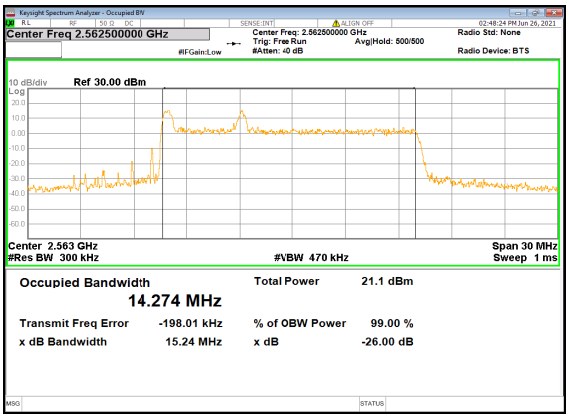
N7(15M)_DFT-s-OFDM_64 QAM_Outer_Full_High_CH



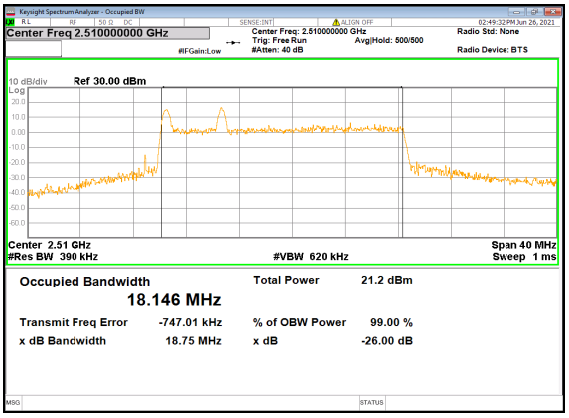
N7(15M)_DFT-s-OFDM_256 QAM_Outer_Full_High_CH



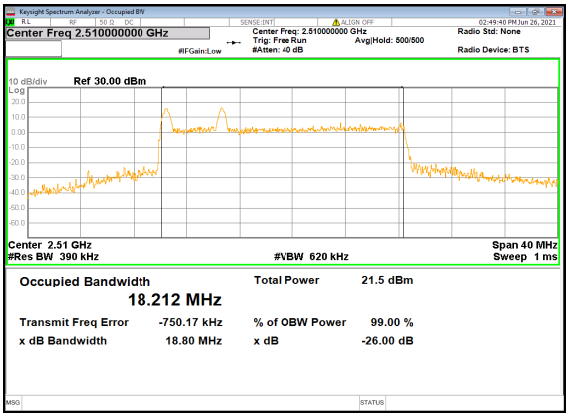
N7(15M)_CP-OFDM_QPSK_Outer_Full_High_CH



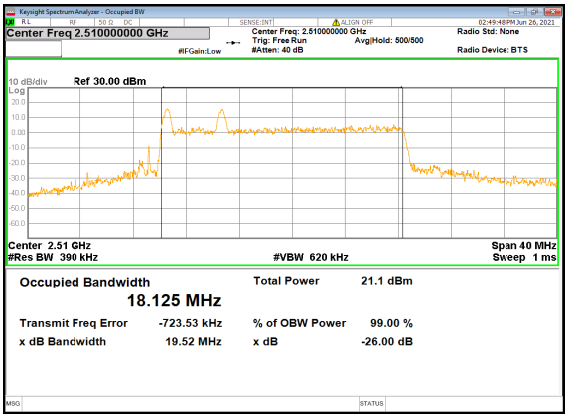
N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



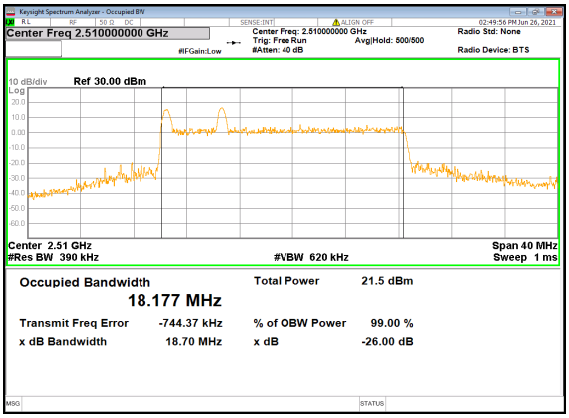
N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



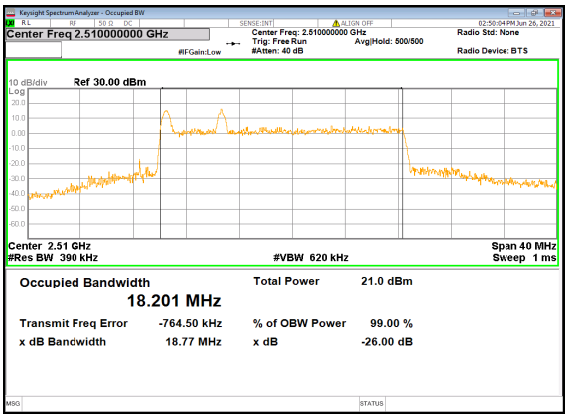
N7(20M)_DFT-s-OFDM_16 QAM_Outer_Full_Low_CH



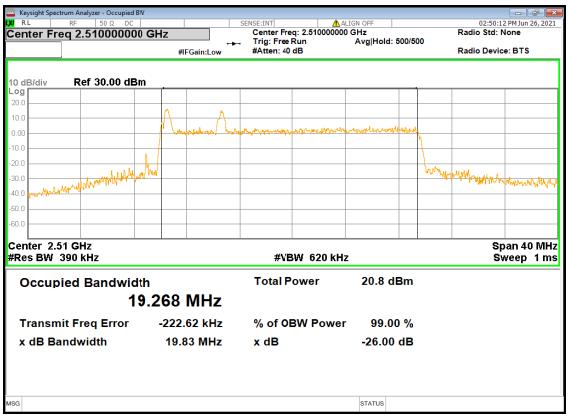
N7(20M)_DFT-s-OFDM_64 QAM_Outer_Full_Low_CH



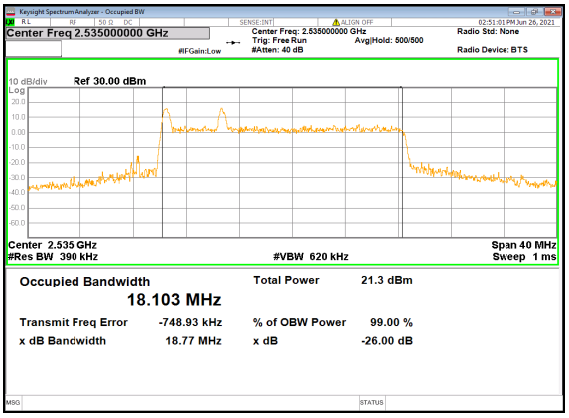
N7(20M)_DFT-s-OFDM_256 QAM_Outer_Full_Low_CH



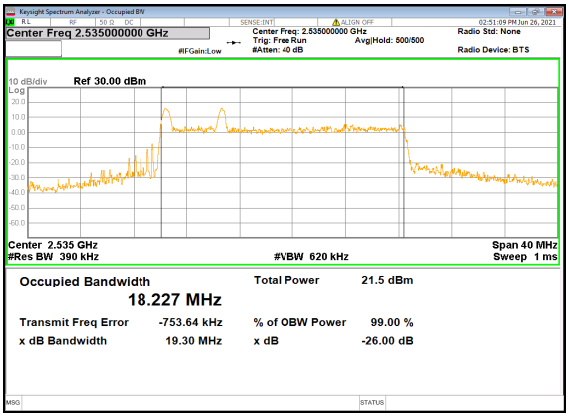
N7(20M)_CP-OFDM_QPSK_Outer_Full_Low_CH



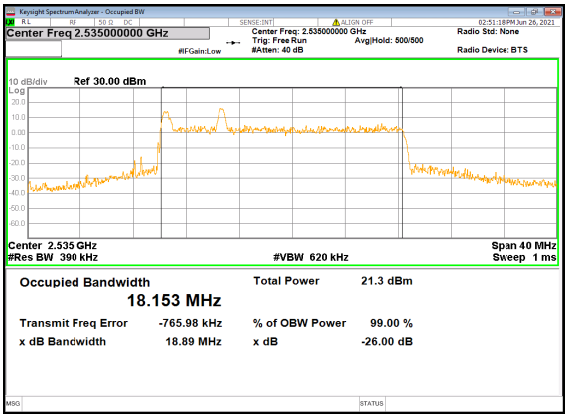
N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



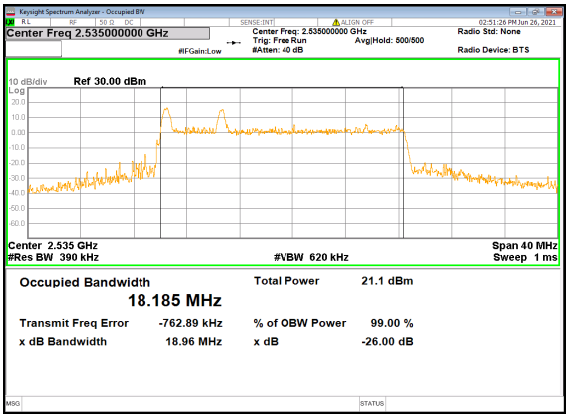
N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



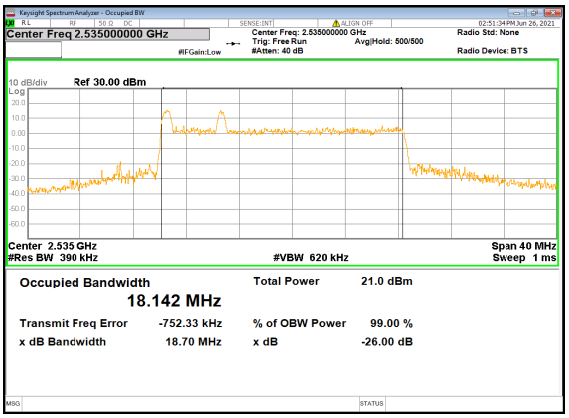
N7(20M)_DFT-s-OFDM_16 QAM_Outer_Full_Mid_CH



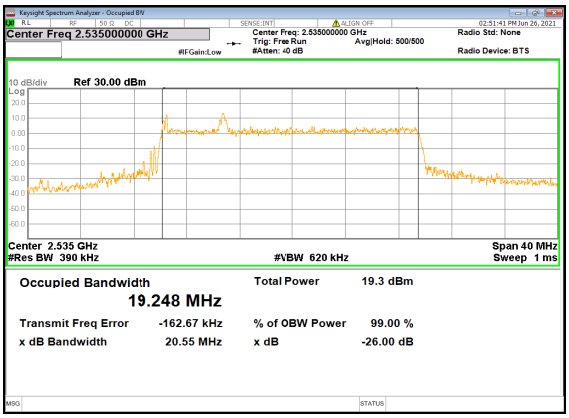
N7(20M)_DFT-s-OFDM_64 QAM_Outer_Full_Mid_CH



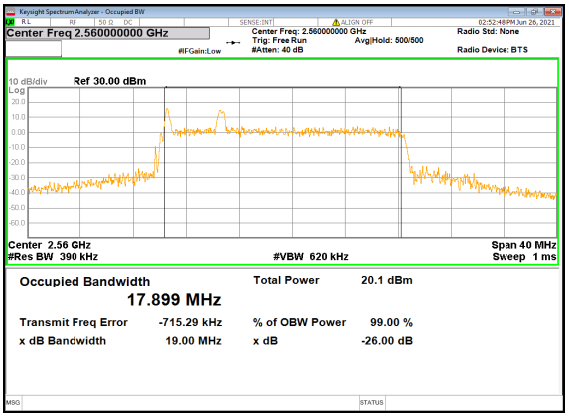
N7(20M)_DFT-s-OFDM_256 QAM_Outer_Full_Mid_CH



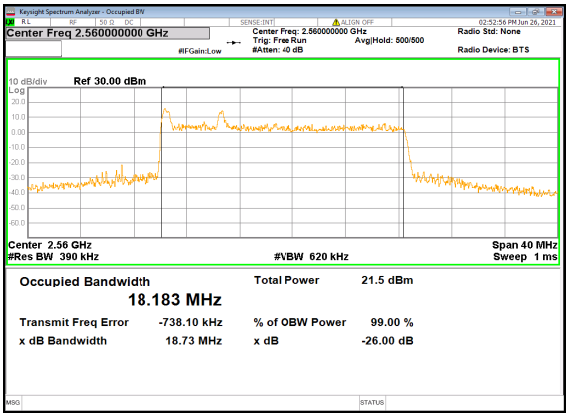
N7(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



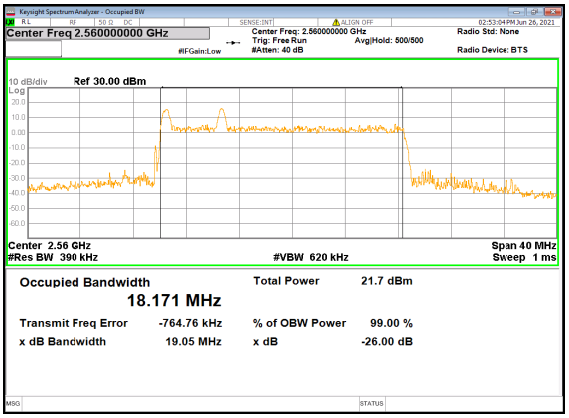
N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



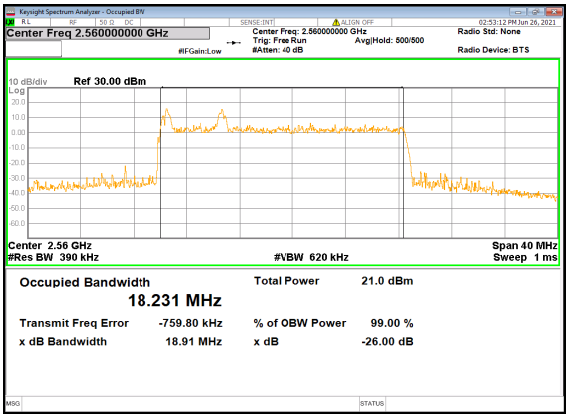
N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



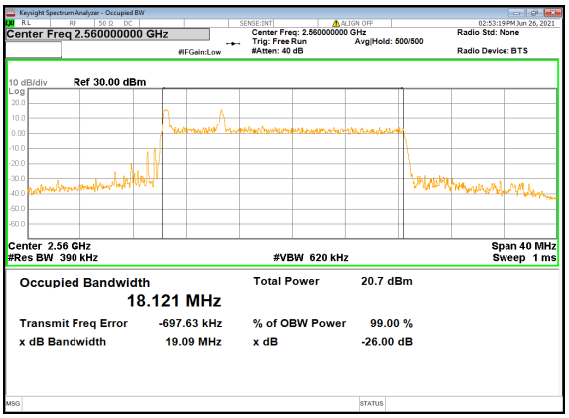
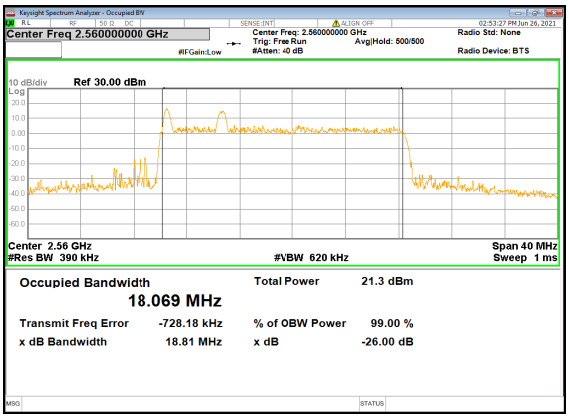
N7(20M)_DFT-s-OFDM_16 QAM_Outer_Full_High_CH



N7(20M)_DFT-s-OFDM_64 QAM_Outer_Full_High_CH



N7(20M)_DFT-s-OFDM_256 QAM_Outer_Full_High_CH



N7(20M)_CP-OFDM_QPSK_Outer_Full_High_CH