TEST REPORT

APPLICANT	:	Nubia Technology Co.,Ltd.
PRODUCT NAME	:	5G Mobile Phone
MODEL NAME	:	NX669J
BRAND NAME	:	REDMAGIC
FCC ID	:	2AHJO-NX669J
STANDARD(S)	:	47 CFR Part 27, Subpart M
RECEIPT DATE	:	2020-12-29
TEST DATE	:	2020-12-31 to 2021-03-13
ISSUE DATE	:	2021-03-13

Edited by: Zhou Xiaolong

Zhou Xiaolong (Rapporteur)

Approved by: Peng Huarui

Peng Huarui (Supervisor)

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MORLAB

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Change History		
Version	**Date**	**Reason for change**
1.0	2021-03-12	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Nubia Technology Co.,Ltd.
Applicant Address:	Room 1801, Building 2, Chongwen Park, Nanshan Zhiyuan, No.3370，Liuxian Rd， Nanshan District, Shenzhen City，Guangdong Province, P. R. China
Manufacturer:	Nubia Technology Co.,Ltd.
ManufacturerAddress:	Room 1801, Building 2, Chongwen Park, Nanshan Zhiyuan, No.3370，Liuxian Rd， Nanshan District, Shenzhen City，Guangdong Province, P. R. China

1.2. Equipment Under Test (EUT) Description

Product Name:	5G Mobile Phone	
Hardware Version:	NX669J_V1AMB	
Software Version:	NX669J_EUCommon_V3.05	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM,64QAM,256QAM
	CP-OFDM	QPSK, 16QAM,64QAM,256QAM
Operation Band:	DC 2A_N41	
Frequency Range:	DC 2A_N41	Tx: 2496MHz -2690MHz
		Rx: 2496MHz -2690MHz
Channel Bandwidth	DC 2A_N41	20 MHz, 40 MHz, 60 MHz, 80MHz, 100 MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	DC 2A_N41	0 dBi
	AC Adapter 1	
	Brand Name:	nubia
	Model No.:	NB-A930A-A, NB-A930A-USBA-1
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V～ 50/60HZ, 0.80A
	Rated Output:	5V⎓3A;9⎓3A; 12V⎓2.5A; 15V⎓2.0A
	Manufacturer:	ShenZhen KunXing Technology Co.,Ltd.
	Battery 1	
	Brand Name:	nubia

	Model No.:	Li3945T44P8h906455
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	4960.00mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Dongguan Amperex Technology Limited

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

Note 2: According to the measured power of all frequency bands,The frequency band with the highest power was selected for the same NR frequency band for testing.

1.3. Maximum ERP/EIRP and Emission Designator

DC 2A_N41	Maximum ERP/EIRP（W）								
	DFT-s-OFDM					CP-OFDM			
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
100	0.240	0.233	0.233	0.245	0.179	0.231	0.227	0.211	0.113
80	0.249	0.244	0.245	0.256	0.182	0.238	0.238	0.211	0.108
60	0.257	0.256	0.257	0.264	0.187	0.252	0.255	0.235	0.121
40	0.258	0.259	0.267	0.274	0.194	0.256	0.252	0.239	0.119
20	0.259	0.261	0.254	0.274	0.188	0.255	0.252	0.258	0.115

Emission Designator (99%OBW)					
DFT-s-OFDM					CP-OFDM
PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
98M4G7D	98M3G7D	97M1W7D	97M2D7W	97M2D7W	98M2G7D
78M9G7D	78M7G7D	78M6W7D	78M6D7W	78M5D7W	78M9G7D
58M7G7D	58M6G7D	59M1W7D	59M0D7W	59M2D7W	58M4G7D
36M4G7D	36M7G7D	36M6W7D	36M8D7W	36M7D7W	38M8G7D
18M0G7D	18M1G7D	18M1W7D	18M0D7W	18M0D7W	18M4G7D

DC 2C_N41	Maximum ERP/EIRP（W）								
	DFT-s-OFDM					CP-OFDM			
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
100	0.175	0.171	0.175	0.167	0.171	0.170	0.173	0.176	0.119
80	0.179	0.174	0.183	0.170	0.179	0.171	0.171	0.167	0.131
60	0.191	0.192	0.194	0.194	0.200	0.186	0.188	0.189	0.139
40	0.198	0.196	0.206	0.203	0.204	0.195	0.192	0.190	0.133
20	0.197	0.194	0. 196	0.193	0.191	0.188	0.190	0.191	0.134

DC 66_N41	Maximum ERP/EIRP（W）								
	DFT-s-OFDM					CP-OFDM			
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
100	0.222	0.224	0.217	0.228	0.221	0.219	0.205	0.219	0.155
80	0.220	0.217	0.218	0.223	0.209	0.212	0.214	0.209	0.161
60	0.233	0.236	0.233	0.244	0.243	0.234	0.229	0.227	0.168
40	0.237	0.242	0.238	0.244	0.243	0.224	0.230	0.231	0.181
20	0.238	0.240	0.232	0.248	0.238	0.239	0.227	0.242	0.185

1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, 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
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)	Transmitter Conducted Output Power and ERP/EIRP	Dec29 ,2020to Jan 13,2020	Tang Jinde Gao Jianrou	PASS	No deviation
2.1049	Occupied Bandwidth	Dec31, 2020	Tang Jinde	PASS	No deviation
2.1055,27.54	Frequency Stability	Jan 04 to 05, 2021	Tang Jinde	PASS	No deviation
2.1051, 27.53(m)(4)	Conducted Spurious Emissions	Mar 01 and 05, 2019	Tang Jinde	PASS	No deviation
2.1051,27.53(m)(4)	Band Edge	Feb 18, and 21, 2021	Tang Jinde	PASS	No deviation
2.1051,27.53(m)(4)	Radiated Spurious Emissions	Jan 26, 2021	Gao Jianrou	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, Part27L Requirements

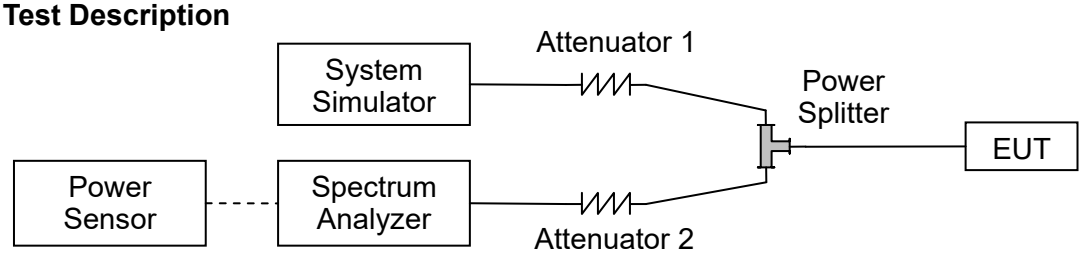
2.1. Transmitter Conducted Output Power And ERP/EIRP

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 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.

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. Result

Conducted Output Power:

EN-DC_2A-N41

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	23.53	23.81	23.70
100		1	136	23.56	23.71	23.40
100		1	271	23.15	23.29	23.27
100	DFT-s-OFDM QPSK	1	1	23.54	23.60	23.65
100		1	136	23.61	23.67	23.38
100		1	271	23.09	23.31	23.30
100	DFT-s-OFDM 16QAM	1	1	23.44	23.68	23.28
100		1	136	23.53	23.59	23.40
100		1	271	22.90	23.38	23.06
100	DFT-s-OFDM 64QAM	1	1	23.89	23.49	23.50
100		1	136	23.62	23.62	23.28
100		1	271	23.27	23.42	23.22
100	DFT-s-OFDM 256QAM	1	1	22.30	22.22	22.12
100		1	136	22.53	22.11	21.76
100		1	271	22.03	21.98	22.06
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM PI/2 BPSK	1	1	23.86	23.85	23.57
80		1	108	23.96	23.72	23.47
80		1	215	23.62	23.36	23.37
80	DFT-s-OFDM QPSK	1	1	23.65	23.87	23.62
80		1	108	23.63	23.70	23.55
80		1	215	23.35	23.34	23.28
80	DFT-s-OFDM 16QAM	1	1	23.62	23.90	23.78
80		1	108	23.63	23.70	23.44
80		1	215	23.34	23.33	23.20
80	DFT-s-OFDM 64QAM	1	1	23.72	24.09	23.37
80		1	108	23.76	23.73	23.50
80		1	215	23.74	23.26	23.32
80	DFT-s-OFDM 256QAM	1	1	22.04	22.53	21.93
80		1	108	22.59	22.22	21.92
80		1	215	22.53	21.79	21.96

Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2559.98
60	DFT-s-OFDM PI/2 BPSK	1	1	23.96	24.07	23.62
60		1	80	23.99	24.10	23.68
60		1	160	23.83	23.92	23.70
60	DFT-s-OFDM QPSK	1	1	23.94	24.05	23.87
60		1	80	24.08	24.08	23.65
60		1	160	23.93	23.81	23.72
60	DFT-s-OFDM 16QAM	1	1	24.10	23.68	23.57
60		1	80	24.04	24.08	23.64
60		1	160	23.95	23.84	23.87
60	DFT-s-OFDM 64QAM	1	1	23.87	24.22	23.73
60		1	80	23.98	24.00	23.69
60		1	160	23.77	23.96	23.80
60	DFT-s-OFDM 256QAM	1	1	22.40	22.71	22.13
60		1	80	22.48	22.65	22.20
60		1	160	22.36	22.29	22.09
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	DFT-s-OFDM PI/2 BPSK	1	1	23.99	24.07	23.77
40		1	102	24.07	24.12	23.80
40		1	104	24.01	23.98	23.72
40	DFT-s-OFDM QPSK	1	1	24.13	24.07	23.75
40		1	102	24.05	24.10	23.85
40		1	104	24.01	23.96	23.72
40	DFT-s-OFDM 16QAM	1	1	24.26	23.88	23.62
40		1	102	24.03	24.11	23.80
40		1	104	23.89	23.71	23.51
40	DFT-s-OFDM 64QAM	1	1	23.93	24.25	23.66
40		1	102	24.12	24.07	23.72
40		1	104	23.67	24.37	23.98
40	DFT-s-OFDM 256QAM	1	1	22.51	22.87	22.57
40		1	102	22.59	22.55	22.36
40		1	104	22.79	22.32	22.21
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM PI/2 BPSK	1	1	24.07	23.99	23.65
20		1	53	24.14	24.04	23.77

20		1	49	24.13	23.95	23.67
20	DFT-s-OFDM QPSK	1	1	24.02	23.97	23.69
20		1	53	24.12	23.91	23.73
20		1	49	24.16	24.03	23.70
20	DFT-s-OFDM 16QAM	1	1	23.83	23.99	23.60
20		1	53	24.04	23.92	23.69
20		1	49	23.99	23.61	23.49
20	DFT-s-OFDM 64QAM	1	1	24.38	23.86	23.83
20		1	53	24.03	23.96	23.80
20		1	49	24.22	23.99	23.55
20	DFT-s-OFDM 256QAM	1	1	22.59	22.75	22.19
20		1	53	22.60	22.53	22.25
20		1	49	22.68	22.38	21.97

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BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	CP-OFDM QPSK	1	1	23.35	23.50	23.57
100		1	136	23.55	23.64	23.35
100		1	271	23.00	23.26	23.24
100	CP-OFDM 16QAM	1	1	23.22	23.56	23.12
100		1	136	23.41	23.38	23.23
100		1	271	22.33	23.07	22.31
100	CP-OFDM 64QAM	1	1	23.05	22.65	23.25
100		1	136	23.16	23.09	22.85
100		1	271	22.72	22.84	22.71
100	CP-OFDM 256QAM	1	1	20.39	20.53	20.39
100		1	136	20.14	20.22	19.88
100		1	271	20.38	19.79	20.01
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	CP-OFDM QPSK	1	1	23.58	23.76	23.56
80		1	108	23.57	23.55	23.47
80		1	215	23.31	23.29	23.06
80	CP-OFDM 16QAM	1	1	22.22	23.77	23.09
80		1	108	23.57	23.57	23.42
80		1	215	23.20	23.29	23.17
80	CP-OFDM 64QAM	1	1	23.14	23.21	23.25
80		1	108	23.19	23.21	22.97
80		1	215	23.14	22.74	22.97
80	CP-OFDM 256QAM	1	1	20.32	20.26	20.24
80		1	108	20.21	20.15	19.95
80		1	215	19.90	19.83	19.86
Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2559.98
60	CP-OFDM QPSK	1	1	23.78	24.02	23.67
60		1	81	24.02	24.01	23.48
60		1	160	23.11	23.75	23.30
60	CP-OFDM	1	1	24.01	23.25	23.38

60	16QAM	1	81	24.01	24.06	23.57
60		1	160	23.92	23.76	23.69
60	CP-OFDM 64QAM	1	1	23.56	23.71	23.21
60		1	81	23.49	23.53	23.20
60		1	160	23.58	23.17	23.25
60	CP-OFDM 256QAM	1	1	20.83	20.79	20.24
60		1	81	20.55	20.61	20.22
60		1	160	20.58	20.35	20.26
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	CP-OFDM QPSK	1	1	23.96	24.00	23.54
40		1	53	24.01	24.09	23.69
40		1	104	23.93	23.89	23.50
40	CP-OFDM 16QAM	1	1	22.32	22.38	23.59
40		1	53	24.00	24.02	23.74
40		1	104	22.11	22.21	23.34
40	CP-OFDM 64QAM	1	1	23.05	23.68	23.35
40		1	53	23.63	23.57	23.36
40		1	104	23.59	23.78	23.10
40	CP-OFDM 256QAM	1	1	20.43	20.68	20.17
40		1	53	20.75	20.64	20.34
40		1	104	20.60	20.50	20.19
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	CP-OFDM QPSK	1	1	23.97	23.78	23.44
20		1	25	24.01	23.88	23.63
20		1	49	24.07	20.96	23.59
20	CP-OFDM 16QAM	1	1	23.35	23.19	23.58
20		1	25	24.01	23.82	23.30
20		1	49	23.13	23.03	23.43
20	CP-OFDM 64QAM	1	1	24.12	23.74	23.61
20		1	25	24.01	23.02	23.69
20		1	49	23.97	23.87	23.42
20	CP-OFDM 256QAM	1	1	20.56	20.62	20.48
20		1	25	20.43	20.33	20.21
20		1	49	20.58	20.55	20.62

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BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	22.33	22.29	22.26
100		1	136	22.30	22.13	22.44
100		1	271	21.79	22.06	22.10
100	DFT-s-OFDM QPSK	1	1	22.12	22.32	22.34
100		1	136	22.28	22.09	22.21
100		1	271	21.96	22.12	22.09
100	DFT-s-OFDM 16QAM	1	1	22.30	22.44	22.26
100		1	136	22.19	22.09	22.17
100		1	271	21.99	22.36	22.39
100	DFT-s-OFDM 64QAM	1	1	22.14	21.63	22.07
100		1	136	22.17	22.08	22.23
100		1	271	21.89	21.86	22.00
100	DFT-s-OFDM 256QAM	1	1	22.22	20.53	21.85
100		1	136	22.21	22.21	22.25
100		1	271	21.93	22.12	22.32
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM PI/2 BPSK	1	1	22.28	22.35	22.26
80		1	108	22.53	22.37	22.28
80		1	215	21.79	22.18	22.05
80	DFT-s-OFDM QPSK	1	1	22.38	22.13	22.34
80		1	108	22.41	22.21	22.36
80		1	215	21.87	22.19	22.16
80	DFT-s-OFDM 16QAM	1	1	21.95	21.98	22.62
80		1	108	22.35	22.13	22.26
80		1	215	21.87	22.07	22.13
80	DFT-s-OFDM 64QAM	1	1	22.12	22.26	22.28
80		1	108	22.31	22.04	22.29
80		1	215	22.08	22.18	22.11
80	DFT-s-OFDM 256QAM	1	1	21.99	20.33	22.54
80		1	108	22.30	22.04	22.32
80		1	215	21.78	22.27	21.97

Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2559.98
60	DFT-s-OFDM PI/2 BPSK	1	1	22.82	22.46	22.73
60		1	80	22.82	22.55	22.60
60		1	160	22.55	22.64	22.55
60	DFT-s-OFDM QPSK	1	1	22.81	22.57	22.83
60		1	80	22.75	22.34	22.61
60		1	160	22.57	22.50	22.60
60	DFT-s-OFDM 16QAM	1	1	22.66	22.34	22.88
60		1	80	22.84	22.41	22.70
60		1	160	22.61	22.67	22.43
60	DFT-s-OFDM 64QAM	1	1	22.77	22.74	22.87
60		1	80	22.83	22.35	22.55
60		1	160	22.61	22.50	22.73
60	DFT-s-OFDM 256QAM	1	1	22.72	20.87	23.02
60		1	80	22.83	22.16	22.64
60		1	160	22.74	22.27	22.46
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	DFT-s-OFDM PI/2 BPSK	1	1	22.94	22.48	22.87
40		1	102	22.96	22.56	22.73
40		1	104	22.89	22.55	22.78
40	DFT-s-OFDM QPSK	1	1	22.93	22.56	22.83
40		1	102	22.93	22.45	22.70
40		1	104	22.75	22.65	22.73
40	DFT-s-OFDM 16QAM	1	1	22.84	22.52	23.13
40		1	102	22.83	22.45	22.72
40		1	104	22.86	22.92	22.85
40	DFT-s-OFDM 64QAM	1	1	22.45	22.39	23.07
40		1	102	22.84	22.48	22.75
40		1	104	22.81	22.25	22.90
40	DFT-s-OFDM 256QAM	1	1	21.09	20.58	23.10
40		1	102	22.38	21.84	22.66
40		1	104	22.22	22.12	21.79
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM PI/2 BPSK	1	1	22.79	22.27	22.58
20		1	53	22.95	22.56	22.66

20		1	49	22.79	22.40	22.69
20	DFT-s-OFDM QPSK	1	1	22.67	22.40	22.51
20		1	53	22.80	22.58	22.66
20		1	49	22.88	22.43	22.68
20	DFT-s-OFDM 16QAM	1	1	22.92	22.18	22.82
20		1	53	22.75	22.41	22.54
20		1	49	22.79	22.39	22.41
20	DFT-s-OFDM 64QAM	1	1	22.50	22.06	22.60
20		1	53	22.84	22.45	22.57
20		1	49	22.86	22.41	22.84
20	DFT-s-OFDM 256QAM	1	1	21.83	21.69	22.42
20		1	53	22.04	22.02	22.59
20		1	49	22.82	22.44	22.72

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BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	CP-OFDM QPSK	1	1	22.00	22.30	22.29
100		1	136	22.25	22.04	22.20
100		1	271	21.85	22.10	22.04
100	CP-OFDM 16QAM	1	1	22.28	22.04	22.16
100		1	136	22.14	22.08	22.13
100		1	271	21.98	22.07	22.37
100	CP-OFDM 64QAM	1	1	22.08	20.64	21.48
100		1	136	22.07	22.01	22.20
100		1	271	21.13	21.81	21.99
100	CP-OFDM 256QAM	1	1	20.64	18.87	20.22
100		1	136	20.75	20.15	20.77
100		1	271	20.41	20.67	20.71
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	CP-OFDM QPSK	1	1	22.34	22.02	22.21
80		1	108	22.27	22.17	22.25
80		1	215	21.71	22.10	22.15
80	CP-OFDM 16QAM	1	1	21.41	21.10	22.07
80		1	108	22.32	22.11	22.25
80		1	215	21.07	22.01	22.07
80	CP-OFDM 64QAM	1	1	22.07	21.14	22.09
80		1	108	22.24	22.01	22.24
80		1	215	21.85	22.03	22.06
80	CP-OFDM 256QAM	1	1	20.74	19.17	21.18
80		1	108	20.86	20.00	20.79
80		1	215	20.47	20.57	20.56
Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2559.98
60	CP-OFDM QPSK	1	1	22.03	22.40	22.60
60		1	81	22.69	22.24	22.51
60		1	160	22.43	22.33	22.53
60	CP-OFDM	1	1	22.60	22.25	22.74

60	16QAM	1	81	22.71	22.32	22.61
60		1	160	22.54	22.33	22.42
60	CP-OFDM 64QAM	1	1	22.62	21.74	22.69
60		1	81	22.76	22.27	22.48
60		1	160	22.55	22.27	22.60
60	CP-OFDM 256QAM	1	1	21.43	19.60	21.40
60		1	81	21.27	20.12	21.13
60		1	160	21.41	21.21	21.13
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	CP-OFDM QPSK	1	1	22.90	22.27	22.26
40		1	53	22.75	22.42	22.69
40		1	104	22.63	22.57	22.64
40	CP-OFDM 16QAM	1	1	22.41	21.92	22.84
40		1	53	22.77	22.39	22.67
40		1	104	22.10	22.55	22.23
40	CP-OFDM 64QAM	1	1	21.70	20.70	22.71
40		1	53	22.78	22.28	22.70
40		1	104	22.72	22.13	22.59
40	CP-OFDM 256QAM	1	1	19.59	18.94	21.25
40		1	53	20.33	19.71	20.70
40		1	104	20.81	20.94	20.78
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	CP-OFDM QPSK	1	1	22.05	22.32	22.50
20		1	25	22.74	22.47	22.59
20		1	49	22.71	22.31	22.57
20	CP-OFDM 16QAM	1	1	22.78	22.08	22.66
20		1	25	22.73	22.37	22.43
20		1	49	22.68	22.26	22.39
20	CP-OFDM 64QAM	1	1	22.07	21.76	22.38
20		1	25	22.59	22.34	22.50
20		1	49	22.80	22.36	22.79
20	CP-OFDM 256QAM	1	1	20.28	19.51	21.13
20		1	25	20.20	19.83	21.02
20		1	49	21.03	20.87	21.28

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BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	DFT-s-OFDM PI/2 BPSK	1	1	23.22	23.46	22.92
100		1	136	23.18	23.05	23.00
100		1	271	22.59	22.95	23.28
100	DFT-s-OFDM QPSK	1	1	23.47	23.50	22.93
100		1	136	23.11	23.12	22.98
100		1	271	22.67	22.99	23.31
100	DFT-s-OFDM 16QAM	1	1	23.37	23.28	22.64
100		1	136	23.12	23.12	22.99
100		1	271	22.34	23.13	22.90
100	DFT-s-OFDM 64QAM	1	1	23.57	23.57	22.74
100		1	136	23.11	23.10	23.02
100		1	271	23.26	22.98	23.29
100	DFT-s-OFDM 256QAM	1	1	23.45	22.12	23.16
100		1	136	23.17	23.07	23.01
100		1	271	22.24	22.79	23.16
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM PI/2 BPSK	1	1	23.43	23.32	23.00
80		1	108	23.28	23.15	23.06
80		1	215	22.81	22.86	23.35
80	DFT-s-OFDM QPSK	1	1	23.28	23.35	22.88
80		1	108	23.27	23.12	23.04
80		1	215	22.90	22.93	23.36
80	DFT-s-OFDM 16QAM	1	1	23.26	23.12	23.09
80		1	108	23.33	23.38	22.97
80		1	215	22.76	22.71	23.26
80	DFT-s-OFDM 64QAM	1	1	23.30	23.49	23.13
80		1	108	23.25	23.05	23.15
80		1	215	22.69	23.12	23.12
80	DFT-s-OFDM 256QAM	1	1	23.10	22.65	23.08
80		1	108	23.21	23.06	23.01
80		1	215	23.00	23.00	23.01

Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2559.98
60	DFT-s-OFDM PI/2 BPSK	1	1	23.67	23.36	23.02
60		1	80	23.64	23.35	23.39
60		1	160	23.38	23.20	23.56
60	DFT-s-OFDM QPSK	1	1	23.66	22.84	23.15
60		1	80	23.72	23.24	23.36
60		1	160	23.53	23.08	23.46
60	DFT-s-OFDM 16QAM	1	1	23.56	23.02	22.86
60		1	80	23.67	23.31	23.29
60		1	160	23.08	23.62	23.45
60	DFT-s-OFDM 64QAM	1	1	23.83	23.62	22.97
60		1	80	23.65	23.31	23.35
60		1	160	23.87	23.20	23.69
60	DFT-s-OFDM 256QAM	1	1	23.85	22.58	23.09
60		1	80	23.67	23.28	23.38
60		1	160	23.57	23.43	23.64
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	DFT-s-OFDM PI/2 BPSK	1	1	23.69	23.45	23.41
40		1	53	23.70	23.47	23.64
40		1	104	23.63	23.29	23.75
40	DFT-s-OFDM QPSK	1	1	23.66	23.47	23.48
40		1	53	23.67	23.44	23.60
40		1	104	23.68	23.25	23.83
40	DFT-s-OFDM 16QAM	1	1	23.47	23.35	23.20
40		1	53	23.76	23.46	23.65
40		1	104	23.41	23.32	23.40
40	DFT-s-OFDM 64QAM	1	1	23.61	23.60	23.35
40		1	53	23.71	23.42	23.72
40		1	104	23.88	23.42	23.88
40	DFT-s-OFDM 256QAM	1	1	23.17	22.22	23.16
40		1	53	23.67	23.46	23.64
40		1	104	23.86	23.63	23.60
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM PI/2 BPSK	1	1	23.76	23.41	23.62
20		1	25	23.62	23.34	23.71

20		1	49	23.69	23.32	23.76
20	DFT-s-OFDM QPSK	1	1	23.62	23.44	23.69
20		1	25	23.72	23.43	23.59
20		1	49	23.66	23.36	23.80
20	DFT-s-OFDM 16QAM	1	1	23.41	23.57	23.49
20		1	25	23.58	23.37	23.65
20		1	49	23.53	23.01	23.30
20	DFT-s-OFDM 64QAM	1	1	23.72	23.72	23.76
20		1	25	23.75	23.27	23.67
20		1	49	23.67	23.07	23.94
20	DFT-s-OFDM 256QAM	1	1	23.52	23.31	23.77
20		1	25	23.57	23.41	23.64
20		1	49	23.40	23.51	23.76

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BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640
100	CP-OFDM QPSK	1	1	23.38	23.41	22.28
100		1	136	23.10	23.08	22.90
100		1	271	22.26	22.80	23.30
100	CP-OFDM 16QAM	1	1	23.04	23.11	22.58
100		1	136	23.03	23.11	22.93
100		1	271	22.20	22.88	22.35
100	CP-OFDM 64QAM	1	1	23.41	22.74	22.67
100		1	136	23.04	23.09	22.89
100		1	271	22.71	22.72	23.17
100	CP-OFDM 256QAM	1	1	21.90	20.85	21.62
100		1	136	21.63	21.53	21.49
100		1	271	21.26	21.44	21.76
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	CP-OFDM QPSK	1	1	23.17	23.25	22.71
80		1	108	23.26	23.10	23.03
80		1	215	22.85	22.83	23.26
80	CP-OFDM 16QAM	1	1	23.19	23.10	22.83
80		1	108	23.31	23.01	22.04
80		1	215	22.70	22.68	23.24
80	CP-OFDM 64QAM	1	1	23.20	22.85	22.72
80		1	108	23.20	23.00	23.04
80		1	215	22.57	22.58	23.08
80	CP-OFDM 256QAM	1	1	22.08	20.94	21.38
80		1	108	21.79	21.56	21.59
80		1	215	22.07	21.64	21.68
Channel				505200	518598	531996
Frequency (MHz)				2526	2592.99	2559.98
60	CP-OFDM QPSK	1	1	23.52	22.39	23.10
60		1	81	23.69	23.17	23.30
60		1	160	23.50	23.01	23.33
60	CP-OFDM	1	1	23.42	23.01	22.17

60	16QAM	1	81	23.50	23.22	23.32
60		1	160	23.01	23.59	23.20
60	CP-OFDM 64QAM	1	1	23.32	23.51	22.96
60		1	81	23.55	23.23	23.31
60		1	160	23.56	23.14	23.06
60	CP-OFDM 256QAM	1	1	22.26	21.42	21.24
60		1	81	22.26	21.78	21.89
60		1	160	21.86	21.88	22.04
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670
40	CP-OFDM QPSK	1	1	23.60	23.35	23.39
40		1	53	23.56	23.35	23.59
40		1	104	23.45	23.19	23.80
40	CP-OFDM 16QAM	1	1	23.36	23.30	23.16
40		1	53	23.62	23.37	23.59
40		1	104	23.38	23.25	23.36
40	CP-OFDM 64QAM	1	1	23.36	22.89	23.28
40		1	53	23.63	23.37	23.62
40		1	104	23.55	23.38	23.10
40	CP-OFDM 256QAM	1	1	21.30	20.71	21.98
40		1	53	22.23	21.62	22.17
40		1	104	22.40	22.07	22.57
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	CP-OFDM QPSK	1	1	23.54	23.40	23.64
20		1	25	23.63	23.30	23.57
20		1	49	23.58	23.22	23.79
20	CP-OFDM 16QAM	1	1	23.40	23.15	23.45
20		1	25	23.05	23.28	23.56
20		1	49	23.46	23.00	23.23
20	CP-OFDM 64QAM	1	1	23.09	23.35	23.67
20		1	25	23.42	23.16	23.44
20		1	49	23.59	23.01	23.83
20	CP-OFDM 256QAM	1	1	22.15	22.13	21.97
20		1	25	21.88	21.80	22.68
20		1	49	22.36	21.80	22.33

Effective Radiated Power and Effective Isotropic Radiated Power:

EN-DC_2A-N41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel		Middle Channel		High Channel	
Channel				509202		518598		528000	
Frequency (MHz)				2546.01		2592.99		2640	
				dBm	W	dBm	W	dBm	W
100	DFT-s-OFDM PI/2 BPSK	1	1	23.53	0.225	23.81	0.240	23.70	0.234
100		135	67	23.56	0.227	23.71	0.235	23.40	0.219
100		270	0	23.15	0.207	23.29	0.213	23.27	0.212
100	DFT-s-OFDM QPSK	1	1	23.54	0.226	23.60	0.229	23.65	0.232
100		135	67	23.61	0.230	23.67	0.233	23.38	0.218
100		270	0	23.09	0.204	23.31	0.214	23.30	0.214
100	DFT-s-OFDM 16QAM	1	1	23.44	0.221	23.68	0.233	23.28	0.213
100		135	67	23.53	0.225	23.59	0.229	23.40	0.219
100		270	0	22.90	0.195	23.38	0.218	23.06	0.202
100	DFT-s-OFDM 64QAM	1	1	23.89	0.245	23.49	0.223	23.50	0.224
100		135	67	23.62	0.230	23.62	0.230	23.28	0.213
100		270	0	23.27	0.212	23.42	0.220	23.22	0.210
100	DFT-s-OFDM 256QAM	1	1	22.30	0.170	22.22	0.167	22.12	0.163
100		135	67	22.53	0.179	22.11	0.163	21.76	0.150
100		270	0	22.03	0.160	21.98	0.158	22.06	0.161
Channel				507204		518598		529998	
Frequency (MHz)				2536.02		2592.99		2649.99	
				dBm	W	dBm	W	dBm	W
80	DFT-s-OFDM PI/2 BPSK	1	1	23.86	0.243	23.85	0.243	23.57	0.228
80		108	54	23.96	0.249	23.72	0.236	23.47	0.222
80		216	0	23.62	0.230	23.36	0.217	23.37	0.217
80	DFT-s-OFDM QPSK	1	1	23.65	0.232	23.87	0.244	23.62	0.230
80		108	54	23.63	0.231	23.70	0.234	23.55	0.226
80		216	0	23.35	0.216	23.34	0.216	23.28	0.213
80	DFT-s-OFDM 16QAM	1	1	23.62	0.230	23.90	0.245	23.78	0.239
80		108	54	23.63	0.231	23.70	0.234	23.44	0.221
80		216	0	23.34	0.216	23.33	0.215	23.20	0.209
80	DFT-s-OFDM 64QAM	1	1	23.72	0.236	24.09	0.256	23.37	0.217
80		108	54	23.76	0.238	23.73	0.236	23.50	0.224
80		216	0	23.74	0.237	23.26	0.212	23.32	0.215

80	DFT-s-OFDM 256QAM	1	1	22.04	0.160	22.53	0.179	21.93	0.156
80		108	54	22.59	0.182	22.22	0.167	21.92	0.156
80		216	0	22.53	0.179	21.79	0.151	21.96	0.157
Channel				505200		518598		531996	
Frequency (MHz)				2526		2592.99		2559.98	
				dBm	W	dBm	W	dBm	W
60	DFT-s-OFDM PI/2 BPSK	1	1	23.96	0.249	24.07	0.255	23.62	0.230
60		81	40	23.99	0.251	24.10	0.257	23.68	0.233
60		162	0	23.83	0.242	23.92	0.247	23.70	0.234
60	DFT-s-OFDM QPSK	1	1	23.94	0.248	24.05	0.254	23.87	0.244
60		81	40	24.08	0.256	24.08	0.256	23.65	0.232
60		162	0	23.93	0.247	23.81	0.240	23.72	0.236
60	DFT-s-OFDM 16QAM	1	1	24.10	0.257	23.68	0.233	23.57	0.228
60		81	40	24.04	0.254	24.08	0.256	23.64	0.231
60		162	0	23.95	0.248	23.84	0.242	23.87	0.244
60	DFT-s-OFDM 64QAM	1	1	23.87	0.244	24.22	0.264	23.73	0.236
60		81	40	23.98	0.250	24.00	0.251	23.69	0.234
60		162	0	23.77	0.238	23.96	0.249	23.80	0.240
60	DFT-s-OFDM 256QAM	1	1	22.40	0.174	22.71	0.187	22.13	0.163
60		81	40	22.48	0.177	22.65	0.184	22.20	0.166
60		162	0	22.36	0.172	22.29	0.169	22.09	0.162
Channel				503202		518598		534000	
Frequency (MHz)				2516.01		2592.99		2670	
				dBm	W	dBm	W	dBm	W
40	DFT-s-OFDM PI/2 BPSK	1	1	23.99	0.251	24.07	0.255	23.77	0.238
40		50	25	24.07	0.255	24.12	0.258	23.80	0.240
40		100	0	24.01	0.252	23.98	0.250	23.72	0.236
40	DFT-s-OFDM QPSK	1	1	24.13	0.259	24.07	0.255	23.75	0.237
40		50	25	24.05	0.254	24.10	0.257	23.85	0.243
40		100	0	24.01	0.252	23.96	0.249	23.72	0.236
40	DFT-s-OFDM 16QAM	1	1	24.26	0.267	23.88	0.244	23.62	0.230
40		50	25	24.03	0.253	24.11	0.258	23.80	0.240
40		100	0	23.89	0.245	23.71	0.235	23.51	0.224
40	DFT-s-OFDM 64QAM	1	1	23.93	0.247	24.25	0.266	23.66	0.232
40		50	25	24.12	0.258	24.07	0.255	23.72	0.236
40		100	0	23.67	0.233	24.37	0.274	23.98	0.250
40	DFT-s-OFDM 256QAM	1	1	22.51	0.178	22.87	0.194	22.57	0.181
40		50	25	22.59	0.182	22.55	0.180	22.36	0.172

40		100	0	22.79	0.190	22.32	0.171	22.21	0.166
Channel				501204		518598		535998	
Frequency (MHz)				2506.02		2592.99		2679.99	
				dBm	W	dBm	W	dBm	W
20	DFT-s-OFDM PI/2 BPSK	1	1	24.07	0.255	23.99	0.251	23.65	0.232
20		25	12	24.14	0.259	24.04	0.254	23.77	0.238
20		50	0	24.13	0.259	23.95	0.248	23.67	0.233
20	DFT-s-OFDM QPSK	1	1	24.02	0.252	23.97	0.249	23.69	0.234
20		25	12	24.12	0.258	23.91	0.246	23.73	0.236
20		50	0	24.16	0.261	24.03	0.253	23.70	0.234
20	DFT-s-OFDM 16QAM	1	1	23.83	0.242	23.99	0.251	23.60	0.229
20		25	12	24.04	0.254	23.92	0.247	23.69	0.234
20		50	0	23.99	0.251	23.61	0.230	23.49	0.223
20	DFT-s-OFDM 64QAM	1	1	24.38	0.274	23.86	0.243	23.83	0.242
20		25	12	24.03	0.253	23.96	0.249	23.80	0.240
20		50	0	24.22	0.264	23.99	0.251	23.55	0.226
20	DFT-s-OFDM 256QAM	1	1	22.59	0.182	22.75	0.188	22.19	0.166
20		25	12	22.60	0.182	22.53	0.179	22.25	0.168
20		50	0	22.68	0.185	22.38	0.173	21.97	0.157

EN-DC_2A-N41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel		Middle Channel		High Channel	
Channel				509202		518598		528000	
Frequency (MHz)				2546.01		2592.99		2640	
				dBm	W	dBm	W	dBm	W
100	CP-OFDM QPSK	1	1	23.35	0.216	23.50	0.224	23.57	0.228
100		135	67	23.55	0.226	23.64	0.231	23.35	0.216
100		270	0	23.00	0.200	23.26	0.212	23.24	0.211
100	CP-OFDM 16QAM	1	1	23.22	0.210	23.56	0.227	23.12	0.205
100		135	67	23.41	0.219	23.38	0.218	23.23	0.210
100		270	0	22.33	0.171	23.07	0.203	22.31	0.170
100	CP-OFDM 64QAM	1	1	23.05	0.202	22.65	0.184	23.25	0.211
100		135	67	23.16	0.207	23.09	0.204	22.85	0.193
100		270	0	22.72	0.187	22.84	0.192	22.71	0.187
100	CP-OFDM 256QAM	1	1	20.39	0.109	20.53	0.113	20.39	0.109
100		135	67	20.14	0.103	20.22	0.105	19.88	0.097
100		270	0	20.38	0.109	19.79	0.095	20.01	0.100
Channel				507204		518598		529998	
Frequency (MHz)				2536.02		2592.99		2649.99	
				dBm	W	dBm	W	dBm	W
80	CP-OFDM QPSK	1	1	23.58	0.228	23.76	0.238	23.56	0.227
80		108	54	23.57	0.228	23.55	0.226	23.47	0.222
80		216	0	23.31	0.214	23.29	0.213	23.06	0.202
80	CP-OFDM 16QAM	1	1	22.22	0.167	23.77	0.238	23.09	0.204
80		108	54	23.57	0.228	23.57	0.228	23.42	0.220
80		216	0	23.20	0.209	23.29	0.213	23.17	0.207
80	CP-OFDM 64QAM	1	1	23.14	0.206	23.21	0.209	23.25	0.211
80		108	54	23.19	0.208	23.21	0.209	22.97	0.198
80		216	0	23.14	0.206	22.74	0.188	22.97	0.198
80	CP-OFDM 256QAM	1	1	20.32	0.108	20.26	0.106	20.24	0.106
80		108	54	20.21	0.105	20.15	0.104	19.95	0.099
80		216	0	19.90	0.098	19.83	0.096	19.86	0.097
Channel				505200		518598		531996	
Frequency (MHz)				2526		2592.99		2559.98	
				dBm	W	dBm	W	dBm	W
60	CP-OFDM	1	1	23.78	0.239	24.02	0.252	23.67	0.233

60	QPSK	81	40	24.02	0.252	24.01	0.252	23.48	0.223
60		162	0	23.11	0.205	23.75	0.237	23.30	0.214
60	CP-OFDM 16QAM	1	1	24.01	0.252	23.25	0.211	23.38	0.218
60		81	40	24.01	0.252	24.06	0.255	23.57	0.228
60		162	0	23.92	0.247	23.76	0.238	23.69	0.234
60	CP-OFDM 64QAM	1	1	23.56	0.227	23.71	0.235	23.21	0.209
60		81	40	23.49	0.223	23.53	0.225	23.20	0.209
60		162	0	23.58	0.228	23.17	0.207	23.25	0.211
60	CP-OFDM 256QAM	1	1	20.83	0.121	20.79	0.120	20.24	0.106
60		81	40	20.55	0.114	20.61	0.115	20.22	0.105
60		162	0	20.58	0.114	20.35	0.108	20.26	0.106
Channel				503202		518598		534000	
Frequency (MHz)				2516.01		2592.99		2670	
				dBm	W	dBm	W	dBm	W
40	CP-OFDM QPSK	1	1	23.96	0.249	24.00	0.251	23.54	0.226
40		50	25	24.01	0.252	24.09	0.256	23.69	0.234
40		100	0	23.93	0.247	23.89	0.245	23.50	0.224
40	CP-OFDM 16QAM	1	1	22.32	0.171	22.38	0.173	23.59	0.229
40		50	25	24.00	0.251	24.02	0.252	23.74	0.237
40		100	0	22.11	0.163	22.21	0.166	23.34	0.216
40	CP-OFDM 64QAM	1	1	23.05	0.202	23.68	0.233	23.35	0.216
40		50	25	23.63	0.231	23.57	0.228	23.36	0.217
40		100	0	23.59	0.229	23.78	0.239	23.10	0.204
40	CP-OFDM 256QAM	1	1	20.43	0.110	20.68	0.117	20.17	0.104
40		50	25	20.75	0.119	20.64	0.116	20.34	0.108
40		100	0	20.60	0.115	20.50	0.112	20.19	0.104
Channel				501204		518598		535998	
Frequency (MHz)				2506.02		2592.99		2679.99	
				dBm	W	dBm	W	dBm	W
20	CP-OFDM QPSK	1	1	23.97	0.249	23.78	0.239	23.44	0.221
20		25	12	24.01	0.252	23.88	0.244	23.63	0.231
20		50	0	24.07	0.255	20.96	0.125	23.59	0.229
20	CP-OFDM 16QAM	1	1	23.35	0.216	23.19	0.208	23.58	0.228
20		25	12	24.01	0.252	23.82	0.241	23.30	0.214
20		50	0	23.13	0.206	23.03	0.201	23.43	0.220
20	CP-OFDM 64QAM	1	1	24.12	0.258	23.74	0.237	23.61	0.230
20		25	12	24.01	0.252	23.02	0.200	23.69	0.234
20		50	0	23.97	0.249	23.87	0.244	23.42	0.220

20	CP-OFDM 256QAM	1	1	20.56	0.114	20.62	0.115	20.48	0.112
20		25	12	20.43	0.110	20.33	0.108	20.21	0.105
20		50	0	20.58	0.114	20.55	0.114	20.62	0.115

EN-DC_2C-N41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel		Middle Channel		High Channel	
Channel				509202		518598		528000	
Frequency (MHz)				2546.01		2592.99		2640	
				dBm	W	dBm	W	dBm	W
100	DFT-s-OFDM PI/2 BPSK	1	1	22.33	0.171	22.29	0.169	22.26	0.168
100		135	67	22.30	0.170	22.13	0.163	22.44	0.175
100		270	0	21.79	0.151	22.06	0.161	22.10	0.162
100	DFT-s-OFDM QPSK	1	1	22.12	0.163	22.32	0.171	22.34	0.171
100		135	67	22.28	0.169	22.09	0.162	22.21	0.166
100		270	0	21.96	0.157	22.12	0.163	22.09	0.162
100	DFT-s-OFDM 16QAM	1	1	22.30	0.170	22.44	0.175	22.26	0.168
100		135	67	22.19	0.166	22.09	0.162	22.17	0.165
100		270	0	21.99	0.158	22.36	0.172	22.39	0.173
100	DFT-s-OFDM 64QAM	1	1	22.14	0.164	21.63	0.146	22.07	0.161
100		135	67	22.17	0.165	22.08	0.161	22.23	0.167
100		270	0	21.89	0.155	21.86	0.153	22.00	0.158
100	DFT-s-OFDM 256QAM	1	1	22.22	0.167	20.53	0.113	21.85	0.153
100		135	67	22.21	0.166	22.21	0.166	22.25	0.168
100		270	0	21.93	0.156	22.12	0.163	22.32	0.171
Channel				507204		518598		529998	
Frequency (MHz)				2536.02		2592.99		2649.99	
				dBm	W	dBm	W	dBm	W
80	DFT-s-OFDM PI/2 BPSK	1	1	22.28	0.169	22.35	0.172	22.26	0.168
80		108	54	22.53	0.179	22.37	0.173	22.28	0.169
80		216	0	21.79	0.151	22.18	0.165	22.05	0.160
80	DFT-s-OFDM QPSK	1	1	22.38	0.173	22.13	0.163	22.34	0.171
80		108	54	22.41	0.174	22.21	0.166	22.36	0.172
80		216	0	21.87	0.154	22.19	0.166	22.16	0.164
80	DFT-s-OFDM 16QAM	1	1	21.95	0.157	21.98	0.158	22.62	0.183
80		108	54	22.35	0.172	22.13	0.163	22.26	0.168
80		216	0	21.87	0.154	22.07	0.161	22.13	0.163
80	DFT-s-OFDM 64QAM	1	1	22.12	0.163	22.26	0.168	22.28	0.169
80		108	54	22.31	0.170	22.04	0.160	22.29	0.169
80		216	0	22.08	0.161	22.18	0.165	22.11	0.163
80	DFT-s-OFDM	1	1	21.99	0.158	20.33	0.108	22.54	0.179

80	256QAM	108	54	22.30	0.170	22.04	0.160	22.32	0.171
80		216	0	21.78	0.151	22.27	0.169	21.97	0.157
Channel				505200		518598		531996	
Frequency (MHz)				2526		2592.99		2559.98	
				dBm	W	dBm	W	dBm	W
60	DFT-s-OFDM PI/2 BPSK	1	1	22.82	0.191	22.46	0.176	22.73	0.187
60		81	40	22.82	0.191	22.55	0.180	22.60	0.182
60		162	0	22.55	0.180	22.64	0.184	22.55	0.180
60	DFT-s-OFDM QPSK	1	1	22.81	0.191	22.57	0.181	22.83	0.192
60		81	40	22.75	0.188	22.34	0.171	22.61	0.182
60		162	0	22.57	0.181	22.50	0.178	22.60	0.182
60	DFT-s-OFDM 16QAM	1	1	22.66	0.185	22.34	0.171	22.88	0.194
60		81	40	22.84	0.192	22.41	0.174	22.70	0.186
60		162	0	22.61	0.182	22.67	0.185	22.43	0.175
60	DFT-s-OFDM 64QAM	1	1	22.77	0.189	22.74	0.188	22.87	0.194
60		81	40	22.83	0.192	22.35	0.172	22.55	0.180
60		162	0	22.61	0.182	22.50	0.178	22.73	0.187
60	DFT-s-OFDM 256QAM	1	1	22.72	0.187	20.87	0.122	23.02	0.200
60		81	40	22.83	0.192	22.16	0.164	22.64	0.184
60		162	0	22.74	0.188	22.27	0.169	22.46	0.176
Channel				503202		518598		534000	
Frequency (MHz)				2516.01		2592.99		2670	
				dBm	W	dBm	W	dBm	W
40	DFT-s-OFDM PI/2 BPSK	1	1	22.94	0.197	22.48	0.177	22.87	0.194
40		50	25	22.96	0.198	22.56	0.180	22.73	0.187
40		100	0	22.89	0.195	22.55	0.180	22.78	0.190
40	DFT-s-OFDM QPSK	1	1	22.93	0.196	22.56	0.180	22.83	0.192
40		50	25	22.93	0.196	22.45	0.176	22.70	0.186
40		100	0	22.75	0.188	22.65	0.184	22.73	0.187
40	DFT-s-OFDM 16QAM	1	1	22.84	0.192	22.52	0.179	23.13	0.206
40		50	25	22.83	0.192	22.45	0.176	22.72	0.187
40		100	0	22.86	0.193	22.92	0.196	22.85	0.193
40	DFT-s-OFDM 64QAM	1	1	22.45	0.176	22.39	0.173	23.07	0.203
40		50	25	22.84	0.192	22.48	0.177	22.75	0.188
40		100	0	22.81	0.191	22.25	0.168	22.90	0.195
40	DFT-s-OFDM 256QAM	1	1	21.09	0.129	20.58	0.114	23.10	0.204
40		50	25	22.38	0.173	21.84	0.153	22.66	0.185
40		100	0	22.22	0.167	22.12	0.163	21.79	0.151

Channel				501204		518598		535998	
Frequency (MHz)				2506.02		2592.99		2679.99	
				dBm	W	dBm	W	dBm	W
20	DFT-s-OFDM PI/2 BPSK	1	1	22.79	0.190	22.27	0.169	22.58	0.181
20		25	12	22.95	0.197	22.56	0.180	22.66	0.185
20		50	0	22.79	0.190	22.40	0.174	22.69	0.186
20	DFT-s-OFDM QPSK	1	1	22.67	0.185	22.40	0.174	22.51	0.178
20		25	12	22.80	0.191	22.58	0.181	22.66	0.185
20		50	0	22.88	0.194	22.43	0.175	22.68	0.185
20	DFT-s-OFDM 16QAM	1	1	22.92	0.196	22.18	0.165	22.82	0.191
20		25	12	22.75	0.188	22.41	0.174	22.54	0.179
20		50	0	22.79	0.190	22.39	0.173	22.41	0.174
20	DFT-s-OFDM 64QAM	1	1	22.50	0.178	22.06	0.161	22.60	0.182
20		25	12	22.84	0.192	22.45	0.176	22.57	0.181
20		50	0	22.86	0.193	22.41	0.174	22.84	0.192
20	DFT-s-OFDM 256QAM	1	1	21.83	0.152	21.69	0.148	22.42	0.175
20		25	12	22.04	0.160	22.02	0.159	22.59	0.182
20		50	0	22.82	0.191	22.44	0.175	22.72	0.187

EN-DC_2C-N41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel		Middle Channel		High Channel	
Channel				509202		518598		528000	
Frequency (MHz)				2546.01		2592.99		2640	
				dBm	W	dBm	W	dBm	W
100	CP-OFDM QPSK	1	1	22.00	0.158	22.30	0.170	22.29	0.169
100		135	67	22.25	0.168	22.04	0.160	22.20	0.166
100		270	0	21.85	0.153	22.10	0.162	22.04	0.160
100	CP-OFDM 16QAM	1	1	22.28	0.169	22.04	0.160	22.16	0.164
100		135	67	22.14	0.164	22.08	0.161	22.13	0.163
100		270	0	21.98	0.158	22.07	0.161	22.37	0.173
100	CP-OFDM 64QAM	1	1	22.08	0.161	20.64	0.116	21.48	0.141
100		135	67	22.07	0.161	22.01	0.159	22.20	0.166
100		270	0	21.13	0.130	21.81	0.152	21.99	0.158
100	CP-OFDM 256QAM	1	1	20.64	0.116	18.87	0.077	20.22	0.105
100		135	67	20.75	0.119	20.15	0.104	20.77	0.119
100		270	0	20.41	0.110	20.67	0.117	20.71	0.118
Channel				507204		518598		529998	
Frequency (MHz)				2536.02		2592.99		2649.99	
				dBm	W	dBm	W	dBm	W
80	CP-OFDM QPSK	1	1	22.34	0.171	22.02	0.159	22.21	0.166
80		108	54	22.27	0.169	22.17	0.165	22.25	0.168
80		216	0	21.71	0.148	22.10	0.162	22.15	0.164
80	CP-OFDM 16QAM	1	1	21.41	0.138	21.10	0.129	22.07	0.161
80		108	54	22.32	0.171	22.11	0.163	22.25	0.168
80		216	0	21.07	0.128	22.01	0.159	22.07	0.161
80	CP-OFDM 64QAM	1	1	22.07	0.161	21.14	0.130	22.09	0.162
80		108	54	22.24	0.167	22.01	0.159	22.24	0.167
80		216	0	21.85	0.153	22.03	0.160	22.06	0.161
80	CP-OFDM 256QAM	1	1	20.74	0.119	19.17	0.083	21.18	0.131
80		108	54	20.86	0.122	20.00	0.100	20.79	0.120
80		216	0	20.47	0.111	20.57	0.114	20.56	0.114
Channel				505200		518598		531996	
Frequency (MHz)				2526		2592.99		2559.98	
				dBm	W	dBm	W	dBm	W
60	CP-OFDM	1	1	22.03	0.160	22.40	0.174	22.60	0.182

60	QPSK	81	40	22.69	0.186	22.24	0.167	22.51	0.178
60		162	0	22.43	0.175	22.33	0.171	22.53	0.179
60	CP-OFDM 16QAM	1	1	22.60	0.182	22.25	0.168	22.74	0.188
60		81	40	22.71	0.187	22.32	0.171	22.61	0.182
60		162	0	22.54	0.179	22.33	0.171	22.42	0.175
60	CP-OFDM 64QAM	1	1	22.62	0.183	21.74	0.149	22.69	0.186
60		81	40	22.76	0.189	22.27	0.169	22.48	0.177
60		162	0	22.55	0.180	22.27	0.169	22.60	0.182
60	CP-OFDM 256QAM	1	1	21.43	0.139	19.60	0.091	21.40	0.138
60		81	40	21.27	0.134	20.12	0.103	21.13	0.130
60		162	0	21.41	0.138	21.21	0.132	21.13	0.130
Channel				503202		518598		534000	
Frequency (MHz)				2516.01		2592.99		2670	
				dBm	W	dBm	W	dBm	W
40	CP-OFDM QPSK	1	1	22.90	0.195	22.27	0.169	22.26	0.168
40		50	25	22.75	0.188	22.42	0.175	22.69	0.186
40		100	0	22.63	0.183	22.57	0.181	22.64	0.184
40	CP-OFDM 16QAM	1	1	22.41	0.174	21.92	0.156	22.84	0.192
40		50	25	22.77	0.189	22.39	0.173	22.67	0.185
40		100	0	22.10	0.162	22.55	0.180	22.23	0.167
40	CP-OFDM 64QAM	1	1	21.70	0.148	20.70	0.117	22.71	0.187
40		50	25	22.78	0.190	22.28	0.169	22.70	0.186
40		100	0	22.72	0.187	22.13	0.163	22.59	0.182
40	CP-OFDM 256QAM	1	1	19.59	0.091	18.94	0.078	21.25	0.133
40		50	25	20.33	0.108	19.71	0.094	20.70	0.117
40		100	0	20.81	0.121	20.94	0.124	20.78	0.120
Channel				501204		518598		535998	
Frequency (MHz)				2506.02		2592.99		2679.99	
				dBm	W	dBm	W	dBm	W
20	CP-OFDM QPSK	1	1	22.05	0.160	22.32	0.171	22.50	0.178
20		25	12	22.74	0.188	22.47	0.177	22.59	0.182
20		50	0	22.71	0.187	22.31	0.170	22.57	0.181
20	CP-OFDM 16QAM	1	1	22.78	0.190	22.08	0.161	22.66	0.185
20		25	12	22.73	0.187	22.37	0.173	22.43	0.175
20		50	0	22.68	0.185	22.26	0.168	22.39	0.173
20	CP-OFDM 64QAM	1	1	22.07	0.161	21.76	0.150	22.38	0.173
20		25	12	22.59	0.182	22.34	0.171	22.50	0.178
20		50	0	22.80	0.191	22.36	0.172	22.79	0.190

20	CP-OFDM 256QAM	1	1	20.28	0.107	19.51	0.089	21.13	0.130
20		25	12	20.20	0.105	19.83	0.096	21.02	0.126
20		50	0	21.03	0.127	20.87	0.122	21.28	0.134

EN-DC_66A-N41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel		Middle Channel		High Channel	
Channel				509202		518598		528000	
Frequency (MHz)				2546.01		2592.99		2640	
				dBm	W	dBm	W	dBm	W
100	DFT-s-OFDM PI/2 BPSK	1	1	23.22	0.210	23.46	0.222	22.92	0.196
100		135	67	23.18	0.208	23.05	0.202	23.00	0.200
100		270	0	22.59	0.182	22.95	0.197	23.28	0.213
100	DFT-s-OFDM QPSK	1	1	23.47	0.222	23.50	0.224	22.93	0.196
100		135	67	23.11	0.205	23.12	0.205	22.98	0.199
100		270	0	22.67	0.185	22.99	0.199	23.31	0.214
100	DFT-s-OFDM 16QAM	1	1	23.37	0.217	23.28	0.213	22.64	0.184
100		135	67	23.12	0.205	23.12	0.205	22.99	0.199
100		270	0	22.34	0.171	23.13	0.206	22.90	0.195
100	DFT-s-OFDM 64QAM	1	1	23.57	0.228	23.57	0.228	22.74	0.188
100		135	67	23.11	0.205	23.10	0.204	23.02	0.200
100		270	0	23.26	0.212	22.98	0.199	23.29	0.213
100	DFT-s-OFDM 256QAM	1	1	23.45	0.221	22.12	0.163	23.16	0.207
100		135	67	23.17	0.207	23.07	0.203	23.01	0.200
100		270	0	22.24	0.167	22.79	0.190	23.16	0.207
Channel				507204		518598		529998	
Frequency (MHz)				2536.02		2592.99		2649.99	
				dBm	W	dBm	W	dBm	W
80	DFT-s-OFDM PI/2 BPSK	1	1	23.43	0.220	23.32	0.215	23.00	0.200
80		108	54	23.28	0.213	23.15	0.207	23.06	0.202
80		216	0	22.81	0.191	22.86	0.193	23.35	0.216
80	DFT-s-OFDM QPSK	1	1	23.28	0.213	23.35	0.216	22.88	0.194
80		108	54	23.27	0.212	23.12	0.205	23.04	0.201
80		216	0	22.90	0.195	22.93	0.196	23.36	0.217
80	DFT-s-OFDM 16QAM	1	1	23.26	0.212	23.12	0.205	23.09	0.204
80		108	54	23.33	0.215	23.38	0.218	22.97	0.198
80		216	0	22.76	0.189	22.71	0.187	23.26	0.212
80	DFT-s-OFDM 64QAM	1	1	23.30	0.214	23.49	0.223	23.13	0.206
80		108	54	23.25	0.211	23.05	0.202	23.15	0.207
80		216	0	22.69	0.186	23.12	0.205	23.12	0.205
80	DFT-s-OFDM	1	1	23.10	0.204	22.65	0.184	23.08	0.203

80	256QAM	108	54	23.21	0.209	23.06	0.202	23.01	0.200
80		216	0	23.00	0.200	23.00	0.200	23.01	0.200
Channel				505200		518598		531996	
Frequency (MHz)				2526		2592.99		2559.98	
				dBm	W	dBm	W	dBm	W
60	DFT-s-OFDM PI/2 BPSK	1	1	23.67	0.233	23.36	0.217	23.02	0.200
60		81	40	23.64	0.231	23.35	0.216	23.39	0.218
60		162	0	23.38	0.218	23.20	0.209	23.56	0.227
60	DFT-s-OFDM QPSK	1	1	23.66	0.232	22.84	0.192	23.15	0.207
60		81	40	23.72	0.236	23.24	0.211	23.36	0.217
60		162	0	23.53	0.225	23.08	0.203	23.46	0.222
60	DFT-s-OFDM 16QAM	1	1	23.56	0.227	23.02	0.200	22.86	0.193
60		81	40	23.67	0.233	23.31	0.214	23.29	0.213
60		162	0	23.08	0.203	23.62	0.230	23.45	0.221
60	DFT-s-OFDM 64QAM	1	1	23.83	0.242	23.62	0.230	22.97	0.198
60		81	40	23.65	0.232	23.31	0.214	23.35	0.216
60		162	0	23.87	0.244	23.20	0.209	23.69	0.234
60	DFT-s-OFDM 256QAM	1	1	23.85	0.243	22.58	0.181	23.09	0.204
60		81	40	23.67	0.233	23.28	0.213	23.38	0.218
60		162	0	23.57	0.228	23.43	0.220	23.64	0.231
Channel				503202		518598		534000	
Frequency (MHz)				2516.01		2592.99		2670	
				dBm	W	dBm	W	dBm	W
40	DFT-s-OFDM PI/2 BPSK	1	1	23.69	0.234	23.45	0.221	23.41	0.219
40		50	25	23.70	0.234	23.47	0.222	23.64	0.231
40		100	0	23.63	0.231	23.29	0.213	23.75	0.237
40	DFT-s-OFDM QPSK	1	1	23.66	0.232	23.47	0.222	23.48	0.223
40		50	25	23.67	0.233	23.44	0.221	23.60	0.229
40		100	0	23.68	0.233	23.25	0.211	23.83	0.242
40	DFT-s-OFDM 16QAM	1	1	23.47	0.222	23.35	0.216	23.20	0.209
40		50	25	23.76	0.238	23.46	0.222	23.65	0.232
40		100	0	23.41	0.219	23.32	0.215	23.40	0.219
40	DFT-s-OFDM 64QAM	1	1	23.61	0.230	23.60	0.229	23.35	0.216
40		50	25	23.71	0.235	23.42	0.220	23.72	0.236
40		100	0	23.88	0.244	23.42	0.220	23.88	0.244
40	DFT-s-OFDM 256QAM	1	1	23.17	0.207	22.22	0.167	23.16	0.207
40		50	25	23.67	0.233	23.46	0.222	23.64	0.231
40		100	0	23.86	0.243	23.63	0.231	23.60	0.229

Channel				501204		518598		535998	
Frequency (MHz)				2506.02		2592.99		2679.99	
				dBm	W	dBm	W	dBm	W
20	DFT-s-OFDM PI/2 BPSK	1	1	23.76	0.238	23.41	0.219	23.62	0.230
20		25	12	23.62	0.230	23.34	0.216	23.71	0.235
20		50	0	23.69	0.234	23.32	0.215	23.76	0.238
20	DFT-s-OFDM QPSK	1	1	23.62	0.230	23.44	0.221	23.69	0.234
20		25	12	23.72	0.236	23.43	0.220	23.59	0.229
20		50	0	23.66	0.232	23.36	0.217	23.80	0.240
20	DFT-s-OFDM 16QAM	1	1	23.41	0.219	23.57	0.228	23.49	0.223
20		25	12	23.58	0.228	23.37	0.217	23.65	0.232
20		50	0	23.53	0.225	23.01	0.200	23.30	0.214
20	DFT-s-OFDM 64QAM	1	1	23.72	0.236	23.72	0.236	23.76	0.238
20		25	12	23.75	0.237	23.27	0.212	23.67	0.233
20		50	0	23.67	0.233	23.07	0.203	23.94	0.248
20	DFT-s-OFDM 256QAM	1	1	23.52	0.225	23.31	0.214	23.77	0.238
20		25	12	23.57	0.228	23.41	0.219	23.64	0.231
20		50	0	23.40	0.219	23.51	0.224	23.76	0.238

EN-DC_66A-N41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel		Middle Channel		High Channel	
Channel				509202		518598		528000	
Frequency (MHz)				2546.01		2592.99		2640	
				dBm	W	dBm	W	dBm	W
100	CP-OFDM QPSK	1	1	23.38	0.218	23.41	0.219	22.28	0.169
100		135	67	23.10	0.204	23.08	0.203	22.90	0.195
100		270	0	22.26	0.168	22.80	0.191	23.30	0.214
100	CP-OFDM 16QAM	1	1	23.04	0.201	23.11	0.205	22.58	0.181
100		135	67	23.03	0.201	23.11	0.205	22.93	0.196
100		270	0	22.20	0.166	22.88	0.194	22.35	0.172
100	CP-OFDM 64QAM	1	1	23.41	0.219	22.74	0.188	22.67	0.185
100		135	67	23.04	0.201	23.09	0.204	22.89	0.195
100		270	0	22.71	0.187	22.72	0.187	23.17	0.207
100	CP-OFDM 256QAM	1	1	21.90	0.155	20.85	0.122	21.62	0.145
100		135	67	21.63	0.146	21.53	0.142	21.49	0.141
100		270	0	21.26	0.134	21.44	0.139	21.76	0.150
Channel				507204		518598		529998	
Frequency (MHz)				2536.02		2592.99		2649.99	
				dBm	W	dBm	W	dBm	W
80	CP-OFDM QPSK	1	1	23.17	0.207	23.25	0.211	22.71	0.187
80		108	54	23.26	0.212	23.10	0.204	23.03	0.201
80		216	0	22.85	0.193	22.83	0.192	23.26	0.212
80	CP-OFDM 16QAM	1	1	23.19	0.208	23.10	0.204	22.83	0.192
80		108	54	23.31	0.214	23.01	0.200	22.04	0.160
80		216	0	22.70	0.186	22.68	0.185	23.24	0.211
80	CP-OFDM 64QAM	1	1	23.20	0.209	22.85	0.193	22.72	0.187
80		108	54	23.20	0.209	23.00	0.200	23.04	0.201
80		216	0	22.57	0.181	22.58	0.181	23.08	0.203
80	CP-OFDM 256QAM	1	1	22.08	0.161	20.94	0.124	21.38	0.137
80		108	54	21.79	0.151	21.56	0.143	21.59	0.144
80		216	0	22.07	0.161	21.64	0.146	21.68	0.147
Channel				505200		518598		531996	
Frequency (MHz)				2526		2592.99		2559.98	
				dBm	W	dBm	W	dBm	W
60	CP-OFDM	1	1	23.52	0.225	22.39	0.173	23.10	0.204

60	QPSK	81	40	23.69	0.234	23.17	0.207	23.30	0.214
60		162	0	23.50	0.224	23.01	0.200	23.33	0.215
60	CP-OFDM 16QAM	1	1	23.42	0.220	23.01	0.200	22.17	0.165
60		81	40	23.50	0.224	23.22	0.210	23.32	0.215
60		162	0	23.01	0.200	23.59	0.229	23.20	0.209
60	CP-OFDM 64QAM	1	1	23.32	0.215	23.51	0.224	22.96	0.198
60		81	40	23.55	0.226	23.23	0.210	23.31	0.214
60		162	0	23.56	0.227	23.14	0.206	23.06	0.202
60	CP-OFDM 256QAM	1	1	22.26	0.168	21.42	0.139	21.24	0.133
60		81	40	22.26	0.168	21.78	0.151	21.89	0.155
60		162	0	21.86	0.153	21.88	0.154	22.04	0.160
Channel				503202		518598		534000	
Frequency (MHz)				2516.01		2592.99		2670	
				dBm	W	dBm	W	dBm	W
40	CP-OFDM QPSK	1	1	23.60	0.229	23.35	0.216	23.39	0.218
40		50	25	23.56	0.227	23.35	0.216	23.59	0.229
40		100	0	23.45	0.221	23.19	0.208	23.80	0.240
40	CP-OFDM 16QAM	1	1	23.36	0.217	23.30	0.214	23.16	0.207
40		50	25	23.62	0.230	23.37	0.217	23.59	0.229
40		100	0	23.38	0.218	23.25	0.211	23.36	0.217
40	CP-OFDM 64QAM	1	1	23.36	0.217	22.89	0.195	23.28	0.213
40		50	25	23.63	0.231	23.37	0.217	23.62	0.230
40		100	0	23.55	0.226	23.38	0.218	23.10	0.204
40	CP-OFDM 256QAM	1	1	21.30	0.135	20.71	0.118	21.98	0.158
40		50	25	22.23	0.167	21.62	0.145	22.17	0.165
40		100	0	22.40	0.174	22.07	0.161	22.57	0.181
Channel				501204		518598		535998	
Frequency (MHz)				2506.02		2592.99		2679.99	
				dBm	W	dBm	W	dBm	W
20	CP-OFDM QPSK	1	1	23.54	0.226	23.40	0.219	23.64	0.231
20		25	12	23.63	0.231	23.30	0.214	23.57	0.228
20		50	0	23.58	0.228	23.22	0.210	23.79	0.239
20	CP-OFDM 16QAM	1	1	23.40	0.219	23.15	0.207	23.45	0.221
20		25	12	23.05	0.202	23.28	0.213	23.56	0.227
20		50	0	23.46	0.222	23.00	0.200	23.23	0.210
20	CP-OFDM 64QAM	1	1	23.09	0.204	23.35	0.216	23.67	0.233
20		25	12	23.42	0.220	23.16	0.207	23.44	0.221
20		50	0	23.59	0.229	23.01	0.200	23.83	0.242

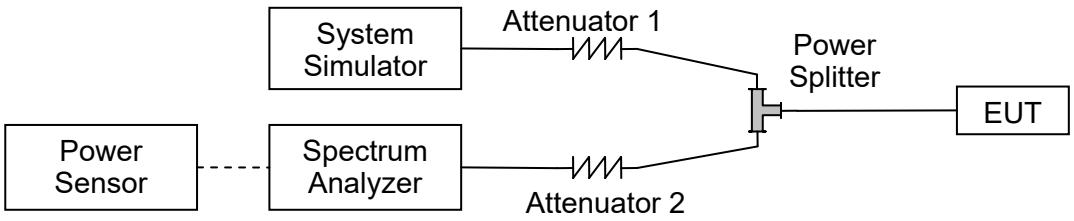
20	CP-OFDM 256QAM	1	1	22.15	0.164	22.13	0.163	21.97	0.157
20		25	12	21.88	0.154	21.80	0.151	22.68	0.185
20		50	0	22.36	0.172	21.80	0.151	22.33	0.171

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.

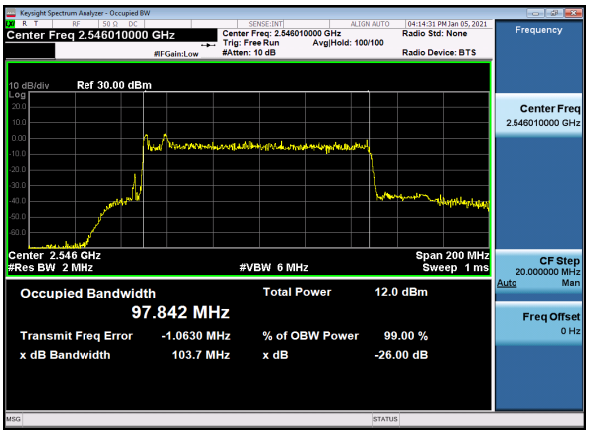
2.2.4. Test Result

DC 2A_N41					
BW(MHz)	ChannelLevel	Modulation		99% BW(MHz)	26dB BW(MHz)
100	Low	DFT-s-OFDM	PI/2 BPSK	97.84	103.70
	Low		QPSK	96.80	101.23
	Low		16QAM	97.13	101.48
	Low		64QAM	96.76	101.67
	Low		256QAM	96.87	101.47
	Low	CP-OFDM	QPSK	97.63	102.00
	Mid	DFT-s-OFDM	PI/2 BPSK	96.93	101.66
	Mid		QPSK	98.02	101.63
	Mid		16QAM	97.05	101.41
	Mid		64QAM	97.18	101.51
	Mid		256QAM	97.18	101.59
	Mid	CP-OFDM	QPSK	98.23	105.42
	High	DFT-s-OFDM	PI/2 BPSK	98.35	102.07
	High		QPSK	98.26	101.68
	High		16QAM	97.05	101.69
	High		64QAM	96.30	103.96
	High		256QAM	97.21	101.60
	High	CP-OFDM	QPSK	98.02	102.43
80	Low	DFT-s-OFDM	PI/2 BPSK	77.53	80.72
	Low		QPSK	77.38	80.66
	Low		16QAM	78.59	81.74
	Low		64QAM	78.57	81.63
	Low		256QAM	77.06	84.73
	Low	CP-OFDM	QPSK	78.90	81.76
	Mid	DFT-s-OFDM	PI/2 BPSK	78.93	81.58
	Mid		QPSK	77.64	81.05
	Mid		16QAM	77.51	80.54
	Mid		64QAM	77.84	84.30
	Mid		256QAM	78.54	81.84
	Mid	CP-OFDM	QPSK	78.17	84.73
	High	DFT-s-OFDM	PI/2 BPSK	77.63	84.47
	High		QPSK	78.65	80.79
	High		16QAM	78.42	81.14

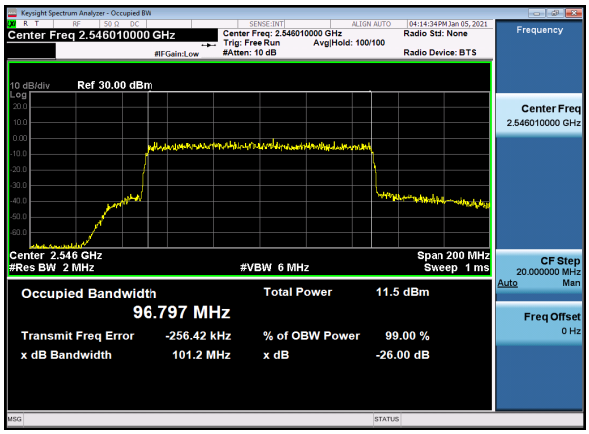
	High		64QAM	78.47	81.17
	High		256QAM	77.53	80.84
	High	CP-OFDM	QPSK	78.21	81.37
60	Low	DFT-s-OFDM	PI/2 BPSK	58.44	64.78
	Low		QPSK	58.45	61.97
	Low		16QAM	59.06	61.38
	Low		64QAM	58.37	64.44
	Low		256QAM	58.31	60.74
	Low	CP-OFDM	QPSK	58.18	61.05
	Mid	DFT-s-OFDM	PI/2 BPSK	58.68	61.23
	Mid		QPSK	58.62	61.46
	Mid		16QAM	58.68	61.76
	Mid		64QAM	59.02	61.24
	Mid		256QAM	59.15	61.35
	Mid	CP-OFDM	QPSK	58.19	60.60
	High	DFT-s-OFDM	PI/2 BPSK	58.49	61.60
	High		QPSK	58.11	60.44
	High		16QAM	58.44	61.18
	High		64QAM	58.54	60.63
	High		256QAM	58.98	61.13
	High	CP-OFDM	QPSK	58.41	61.74
40	Low	DFT-s-OFDM	PI/2 BPSK	36.19	40.17
	Low		QPSK	36.27	40.90
	Low		16QAM	36.41	43.53
	Low		64QAM	36.45	40.37
	Low		256QAM	36.11	38.44
	Low	CP-OFDM	QPSK	38.53	41.40
	Mid	DFT-s-OFDM	PI/2 BPSK	36.42	39.36
	Mid		QPSK	36.67	39.27
	Mid		16QAM	36.10	43.66
	Mid		64QAM	36.75	38.83
	Mid		256QAM	36.48	38.96
	Mid	CP-OFDM	QPSK	38.77	41.51
	High	DFT-s-OFDM	PI/2 BPSK	36.39	39.44
	High		QPSK	36.5	38.48
	High		16QAM	36.62	40.31
	High		64QAM	36.36	39.29
	High		256QAM	36.66	39.84

	High	CP-OFDM	QPSK	38.47	41.56
20	Low	DFT-s-OFDM	PI/2 BPSK	18.02	18.84
	Low		QPSK	18.14	19.44
	Low		16QAM	18.12	19.41
	Low		64QAM	17.83	19.00
	Low		256QAM	18.00	18.85
	Low	CP-OFDM	QPSK	18.34	19.32
	Mid	DFT-s-OFDM	PI/2 BPSK	17.87	19.11
	Mid		QPSK	17.91	19.13
	Mid		16QAM	17.91	19.04
	Mid		64QAM	17.93	19.09
	Mid		256QAM	17.89	19.06
	Mid	CP-OFDM	QPSK	18.30	19.68
	High	DFT-s-OFDM	PI/2 BPSK	17.99	18.81
	High		QPSK	18.09	18.98
	High		16QAM	17.98	19.26
	High		64QAM	18.02	19.30
	High		256QAM	17.93	19.33
	High	CP-OFDM	QPSK	18.35	19.29

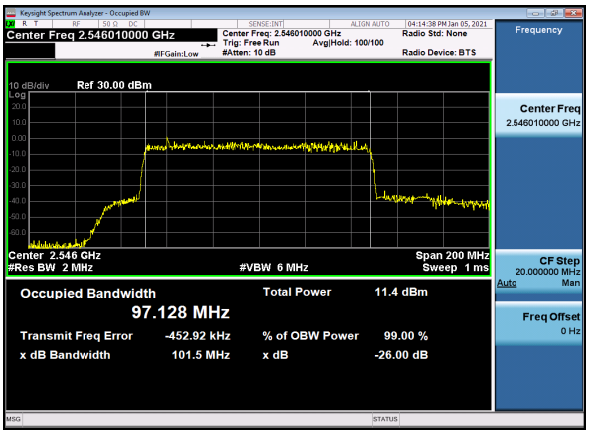
B2_N41(100M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low CH



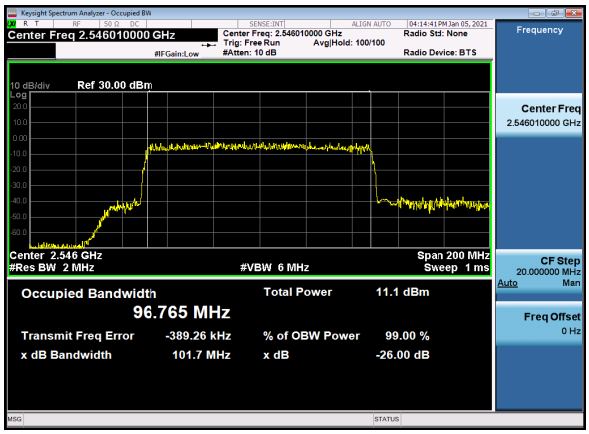
B2_N41(100M)_DFT-s-OFDM_QPSK_Outer_Full_Low CH



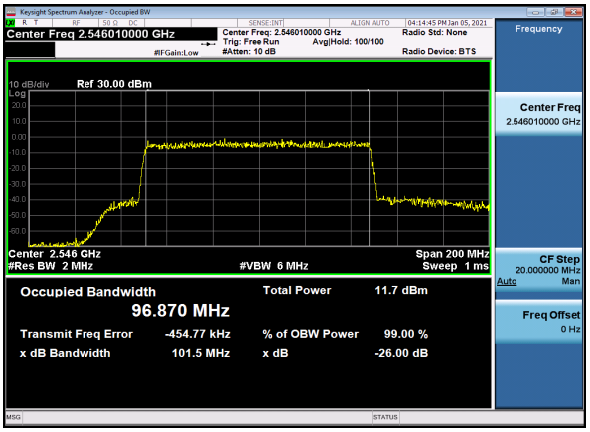
B2_N41(100M)_DFT-s-OFDM_16QAM_Outer_Full_Low CH



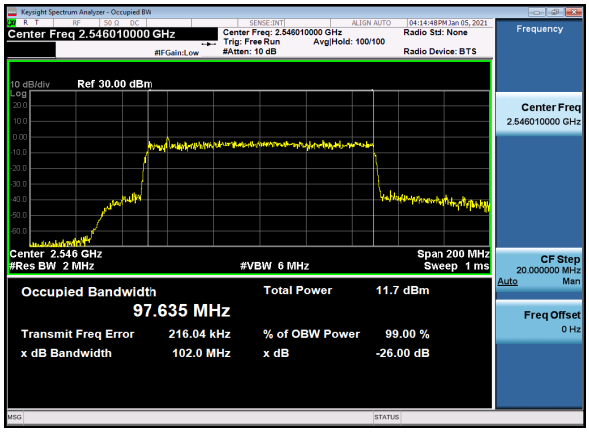
B2_N41(100M)_DFT-s-OFDM_64QAM_Outer_Full_Low CH



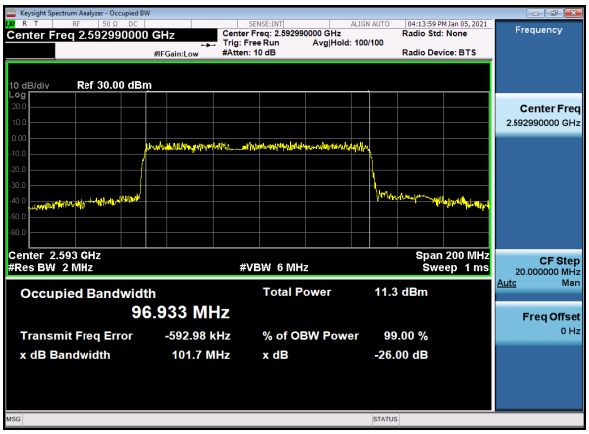
B2_N41(100M)_DFT-s-OFDM_256QAM_Outer_Full_Low CH



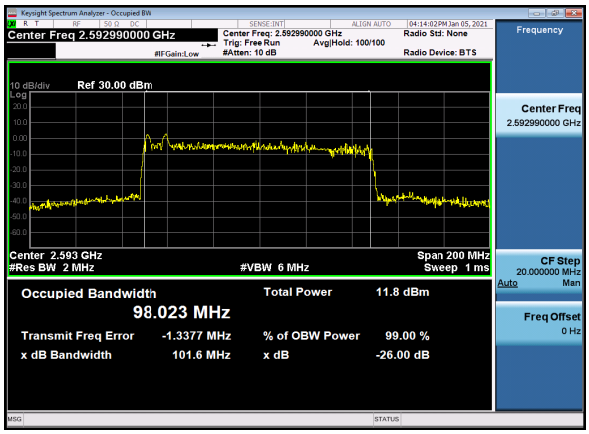
B2_N41(100M)_CP-OFDM_QPSK_Outer_Full_Low CH



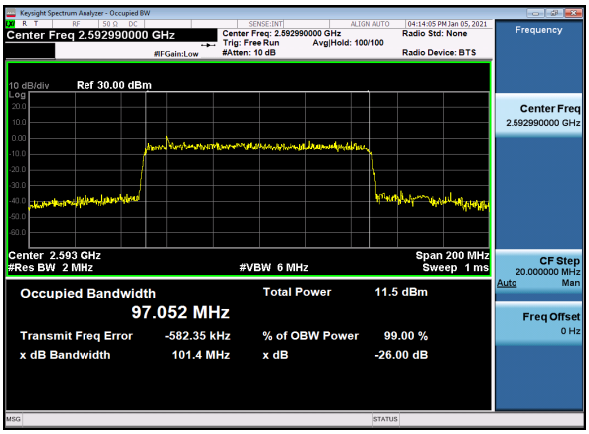
B2_N41(100M)_DFT-s-OFDM_PI_2-BPSK_Outer _Full_ Mid CH



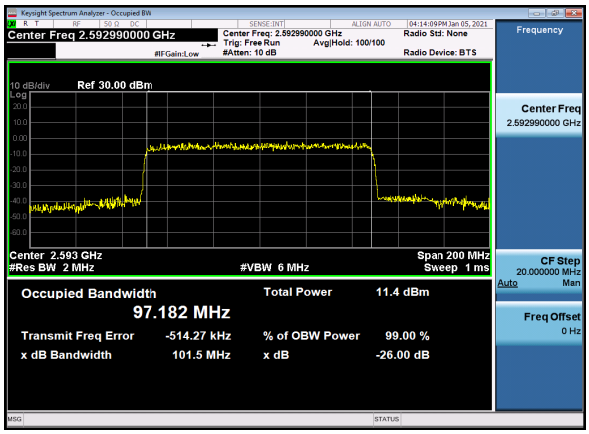
B2_N41(100M)_DFT-s-OFDM_QPSK_Outer _Full_ Mid CH



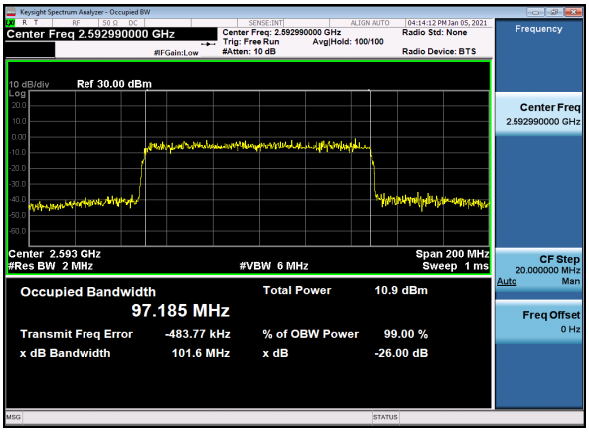
B2_N41(100M)_DFT-s-OFDM_16 QAM_Outer_Full_ Mid CH



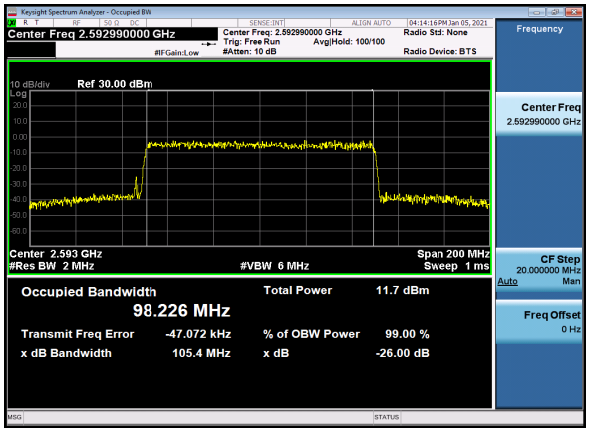
B2_N41(100M)_DFT-s-OFDM_64 QAM_Outer_Full_ Mid CH



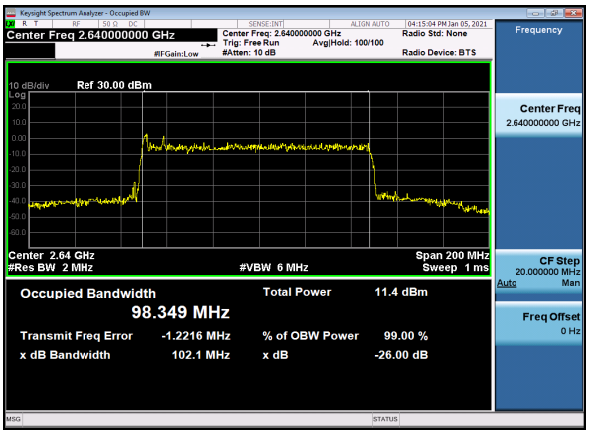
B2_N41(100M)_DFT-s-OFDM_256 QAM_Outer_ Mid CH



B2_N41(100M)_CP-OFDM_QPSK_Outer_Fu ll_ Mid CH

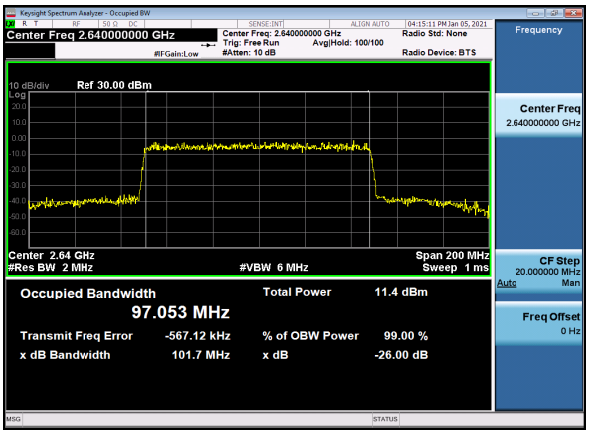


B2_N41(100M)_DFT-s-OFDM_PI_2-BPSK_Outer _Full_ High CH

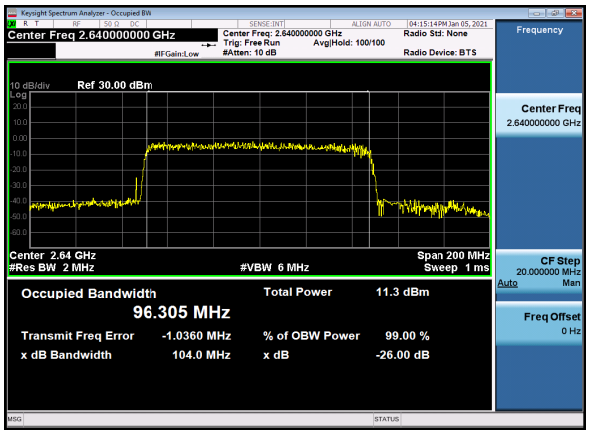


B2_N41(100M)_DFT-s-OFDM_QPSK_Outer _Full_ High CH

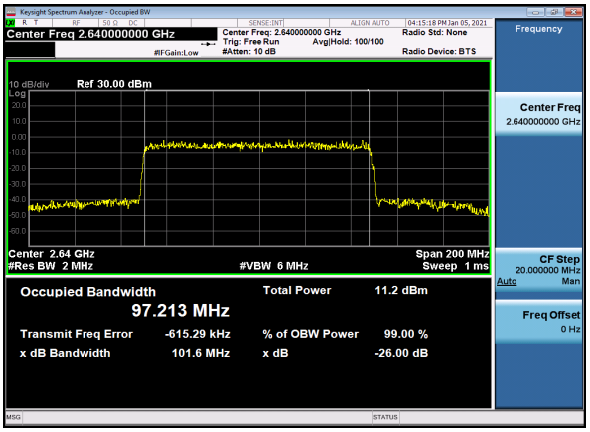
B2_N41(100M)_DFT-s-OFDM_16 QAM_Outer_Full_ High CH



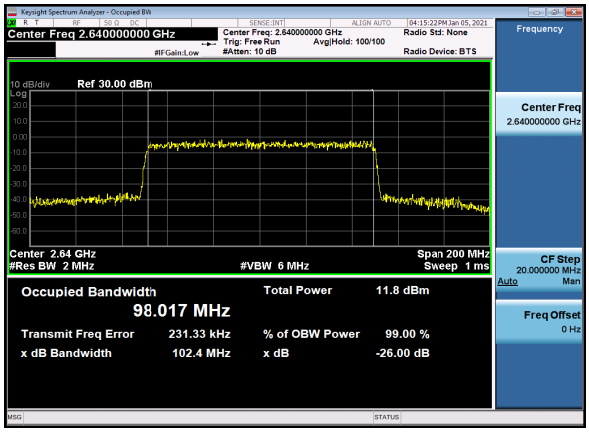
B2_N41(100M)_DFT-s-OFDM_64 QAM_Outer_Full_ High CH



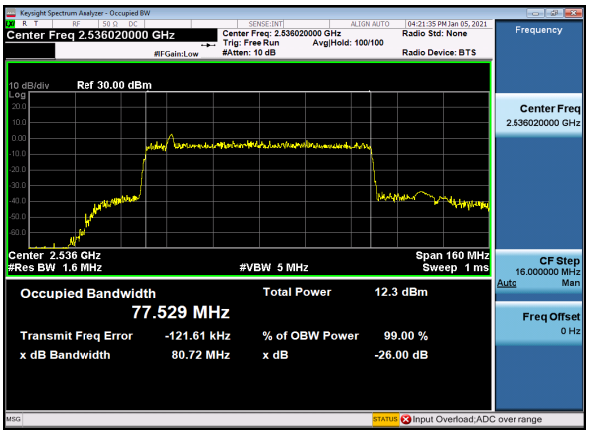
B2_N41(100M)_DFT-s-OFDM_256 QAM_Outer_Full_ High CH



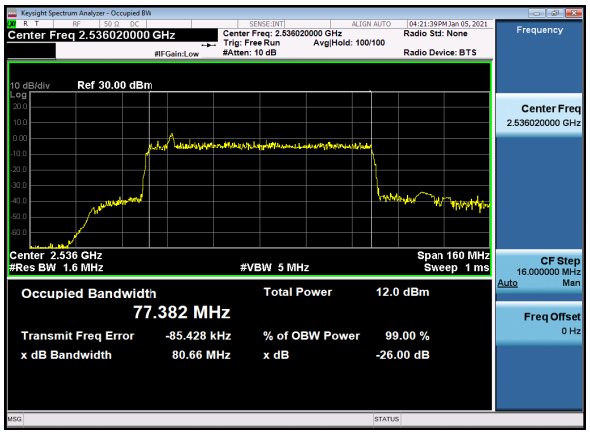
B2_N41(100M)_CP-OFDM_QPSK_Outer_Full_ High CH



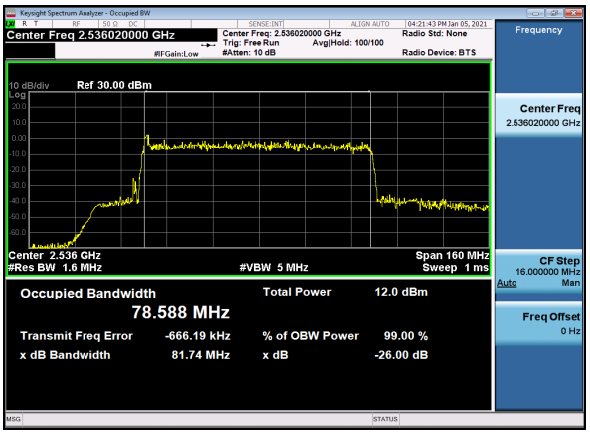
B2_N41(80M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_ Low CH



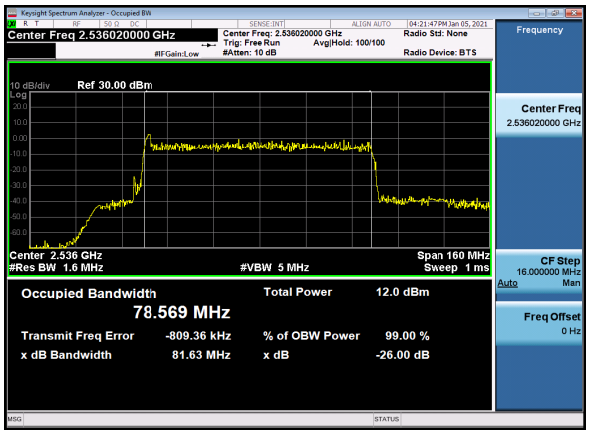
B2_N41(80M)_DFT-s-OFDM_QPSK_Outer_Full_ Low CH



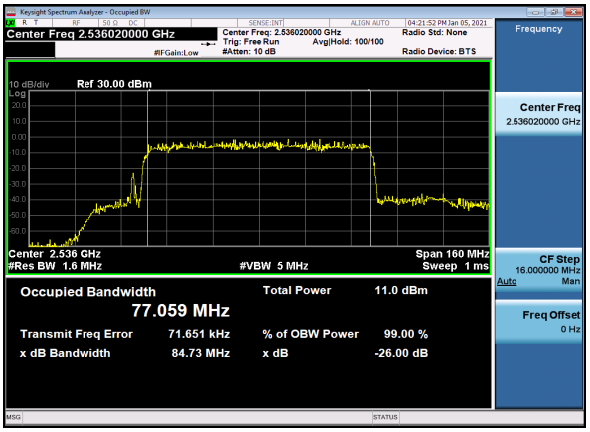
B2_N41(80M)_DFT-s-OFDM_16 QAM_Outer_Full_ Low CH



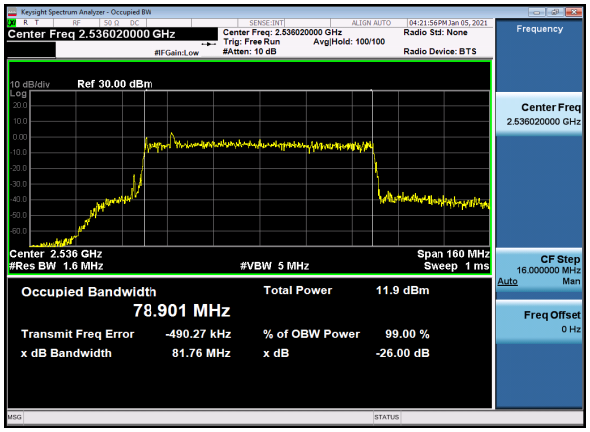
B2_N41(80M)_DFT-s-OFDM_64 QAM_Outer_Full_ Low CH



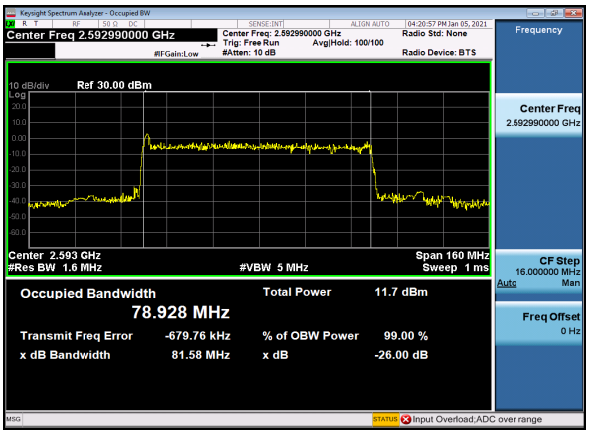
B2_N41(80M)_DFT-s-OFDM_256 QAM_Outer_Full_ Low CH



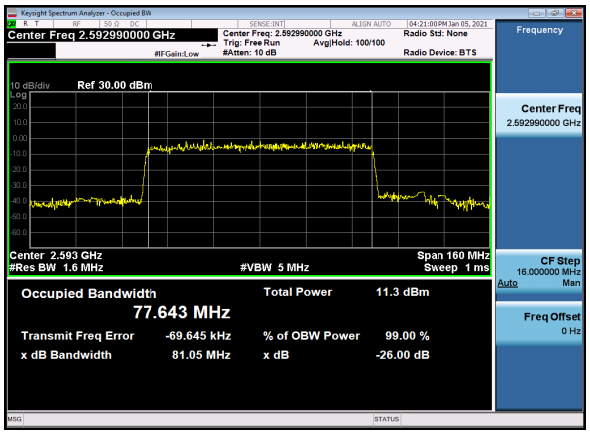
B2_N41(80M)_CP-OFDM_QPSK_Outer_Full _ Low CH



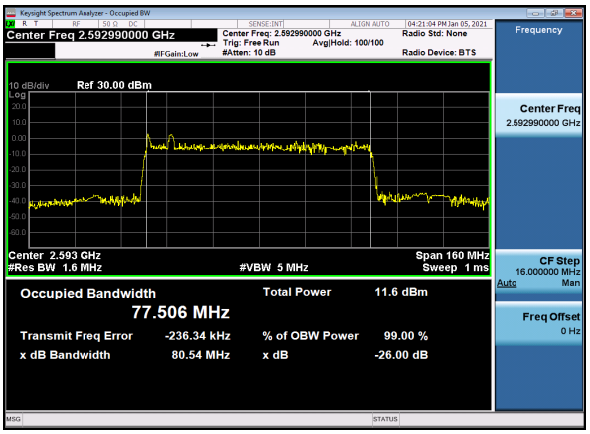
B2_N41(80M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_ Mid CH



B2_N41(80M)_DFT-s-OFDM_QPSK_Outer_Full_ Mid CH

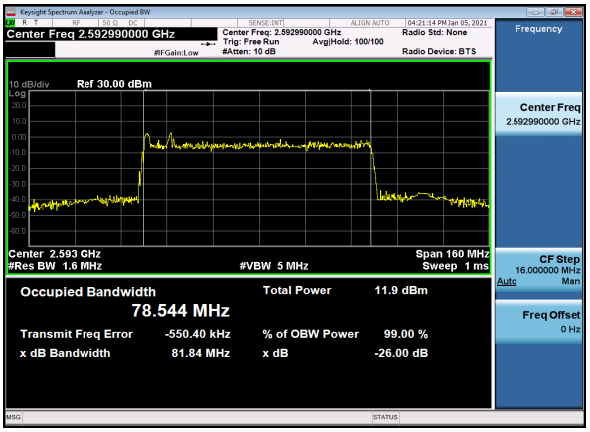


B2_N41(80M)_DFT-s-OFDM_16 QAM_Outer_Full_ Mid CH

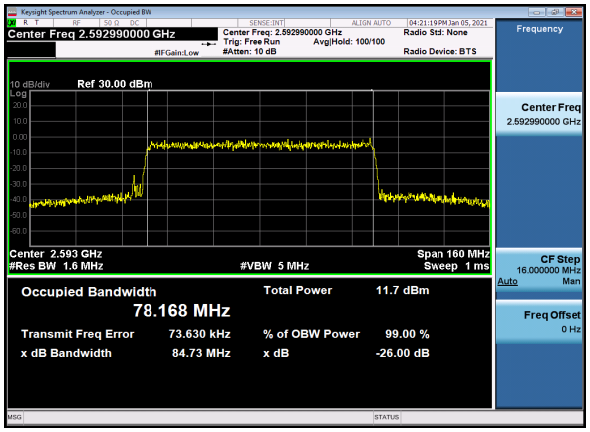


B2_N41(80M)_DFT-s-OFDM_64 QAM_Outer_Full_ Mid CH

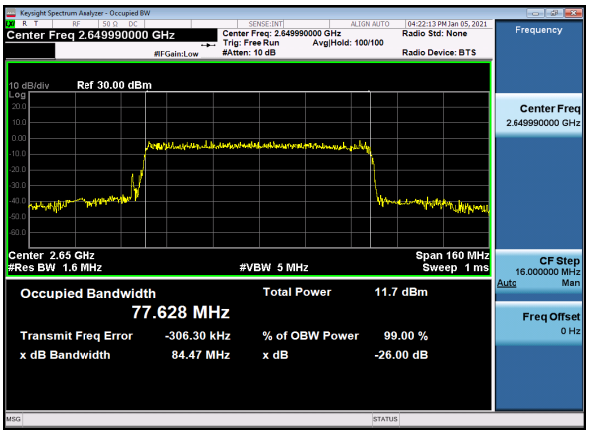
B2_N41(80M)_DFT-s-OFDM_256 QAM_Outer_Full_ Mid CH



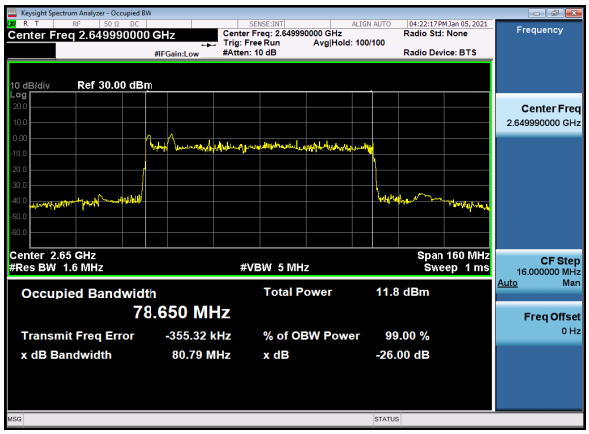
B2_N41(80M)_CP-OFDM_QPSK_Outer_Full _ Mid CH



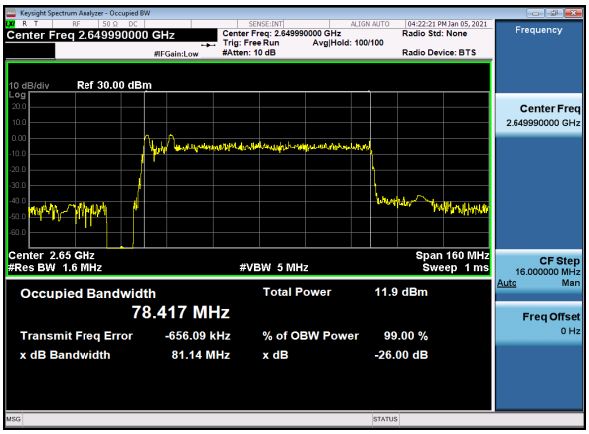
B2_N41(80M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_ High CH



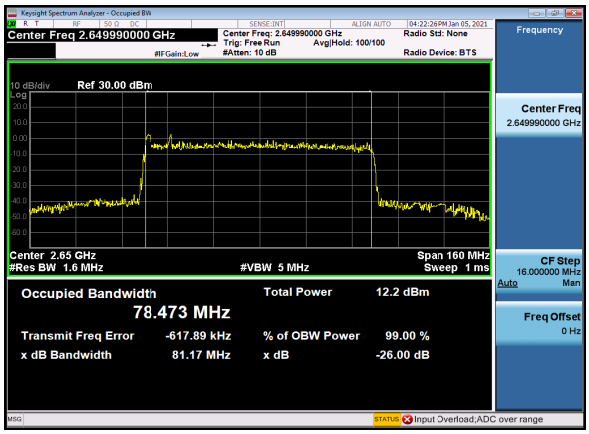
B2_N41(80M)_DFT-s-OFDM_QPSK_Outer_High CH



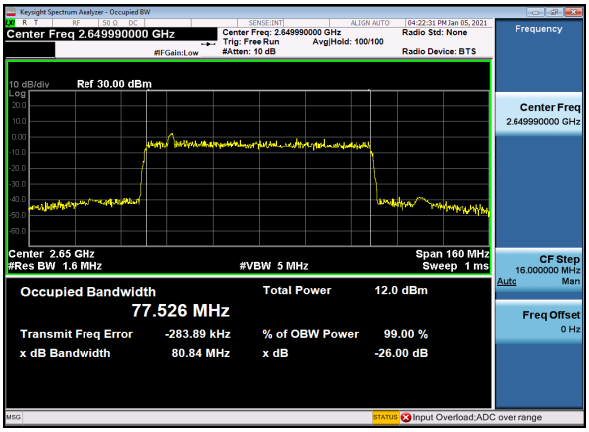
B2_N41(80M)_DFT-s-OFDM_16 QAM_Outer_Full_ High CH



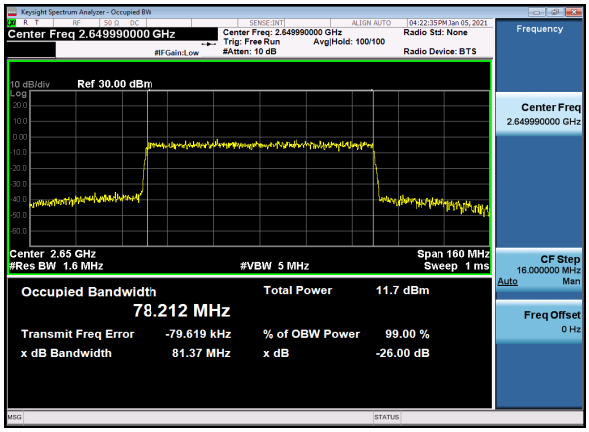
B2_N41(80M)_DFT-s-OFDM_64 QAM_Outer_Full_ High CH



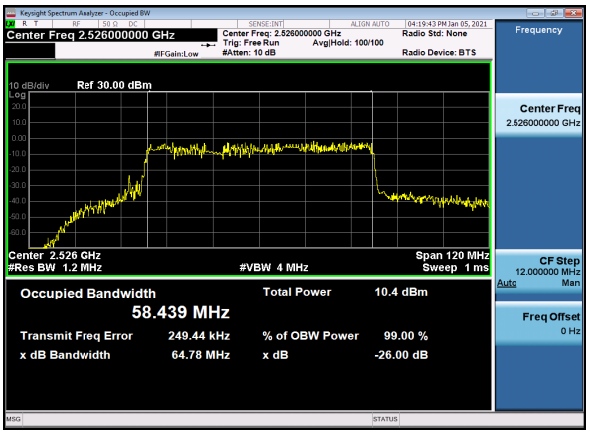
B2_N41(80M)_DFT-s-OFDM_256 QAM_Outer_Full_ High CH



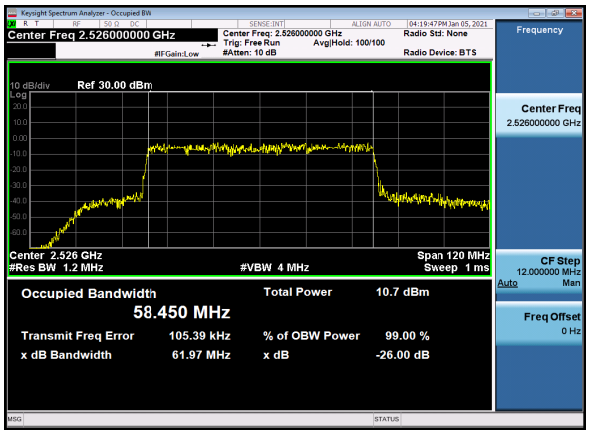
B2_N41(80M)_CP-OFDM_QPSK_Outer_Full _ High CH



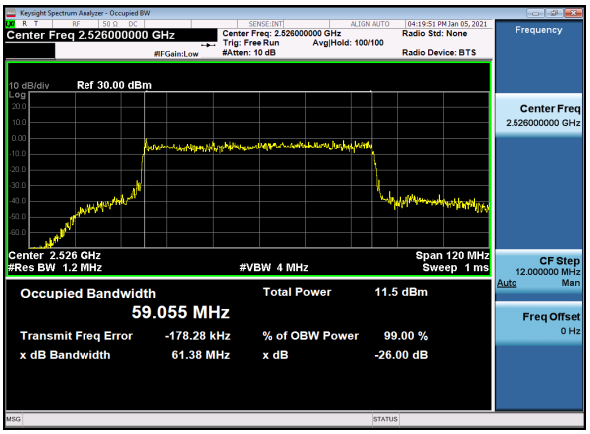
B2_N41(60M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_ Low CH



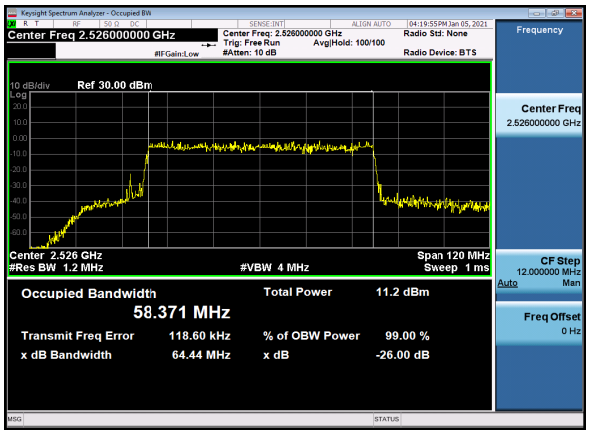
B2_N41(60M)_DFT-s-OFDM_QPSK_Outer_Full_ Low CH



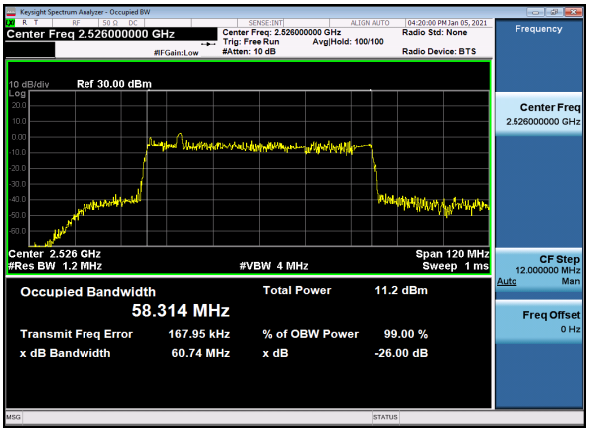
B2_N41(60M)_DFT-s-OFDM_16 QAM_Outer_Full_ Low CH



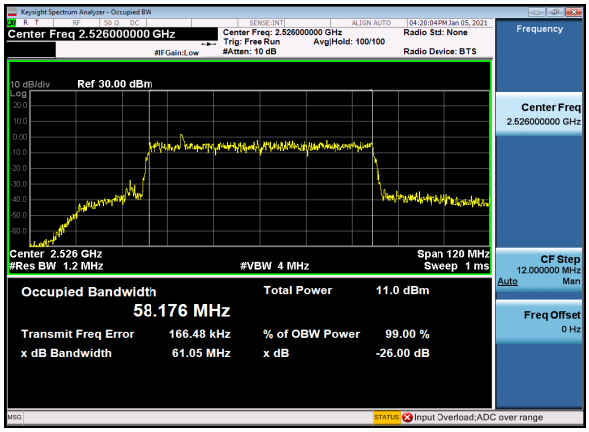
B2_N41(60M)_DFT-s-OFDM_64 QAM_Outer_Full_ Low CH



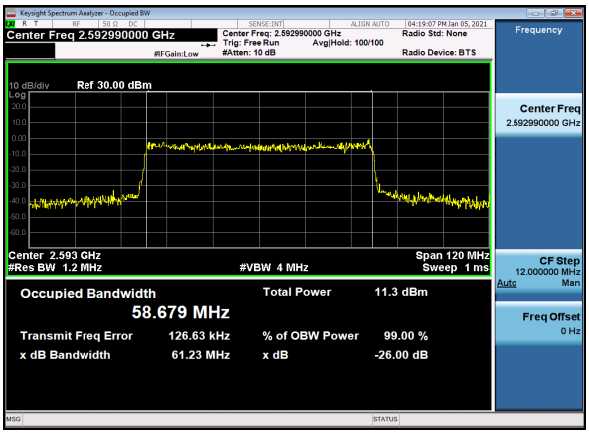
B2_N41(60M)_DFT-s-OFDM_256 QAM_Outer_Full_ Low CH



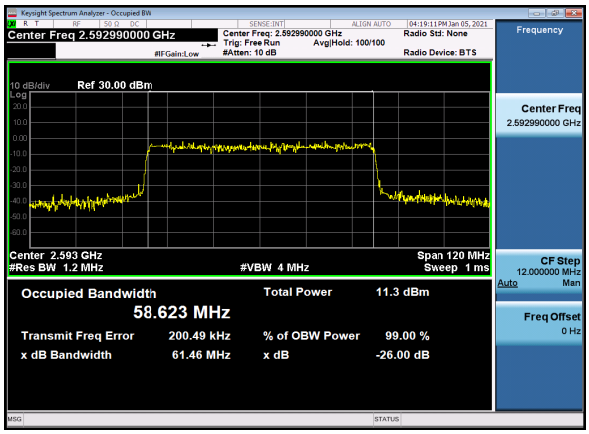
B2_N41(60M)_CP-OFDM_QPSK_Outer_Full _ Low CH



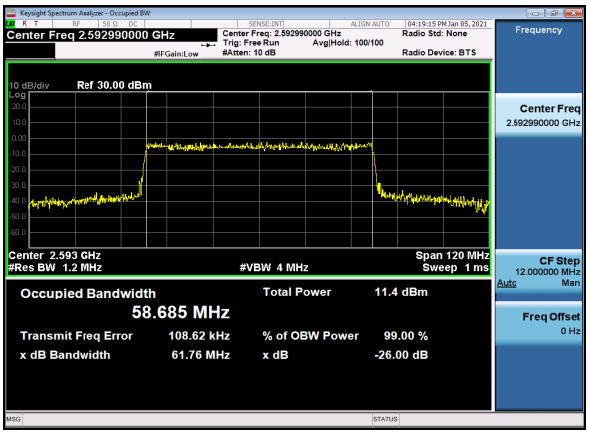
B2_N41(60M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_ Mid CH



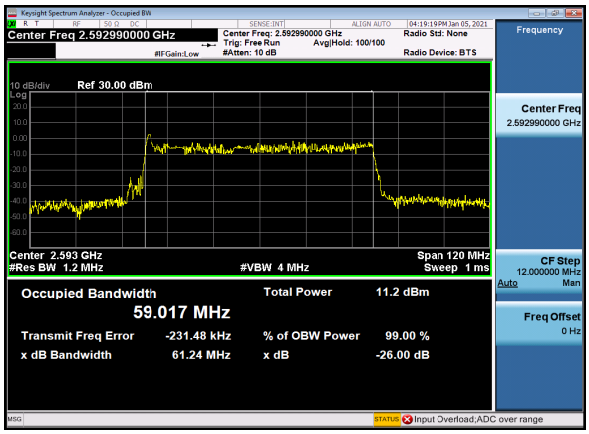
B2_N41(60M)_DFT-s-OFDM_QPSK_Outer_Full_ Mid CH



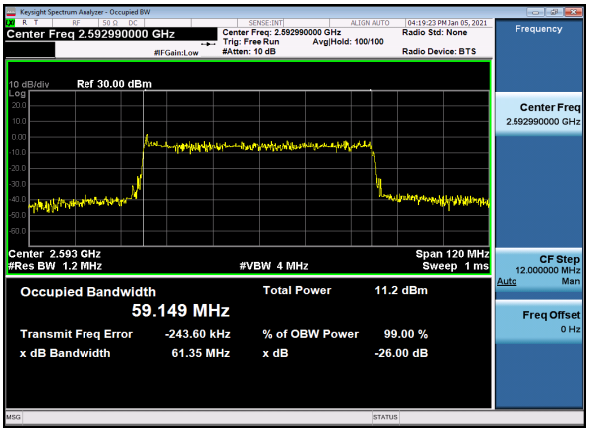
B2_N41(60M)_DFT-s-OFDM_16 QAM_Outer_Full_ Mid CH



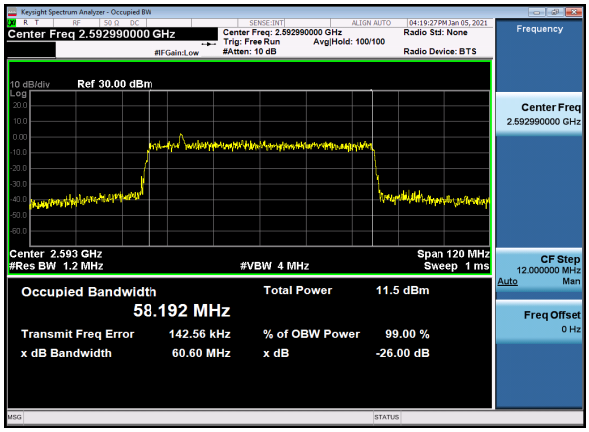
B2_N41(60M)_DFT-s-OFDM_64 QAM_Outer_Full_ Mid CH



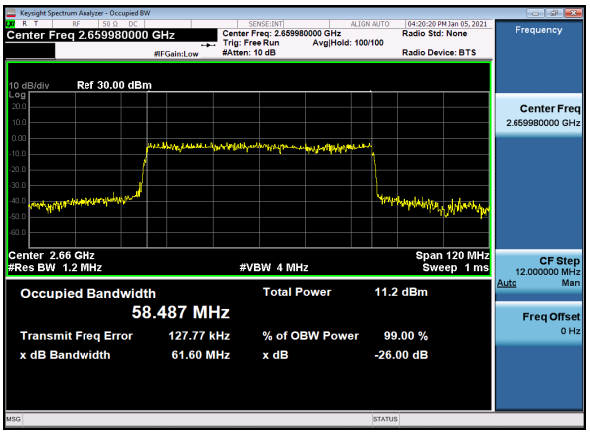
B2_N41(60M)_DFT-s-OFDM_256 QAM_Outer_Full_ Mid CH



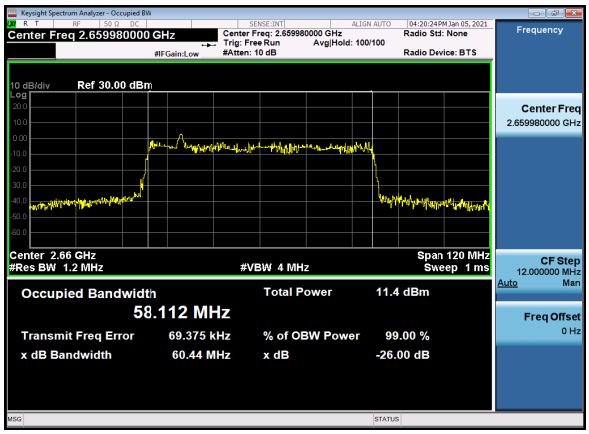
B2_N41(60M)_CP-OFDM_QPSK_Outer_Full _ Mid CH



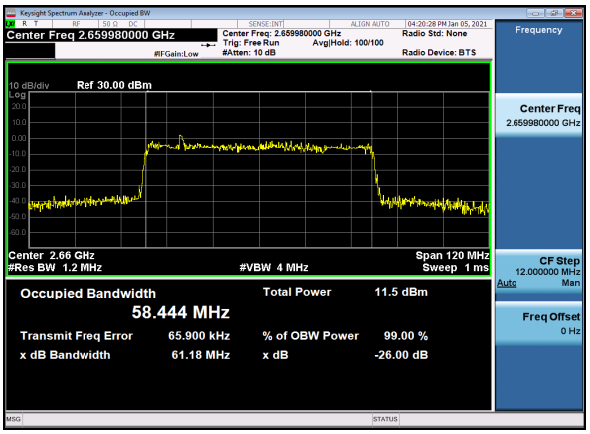
B2_N41(60M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_ High CH



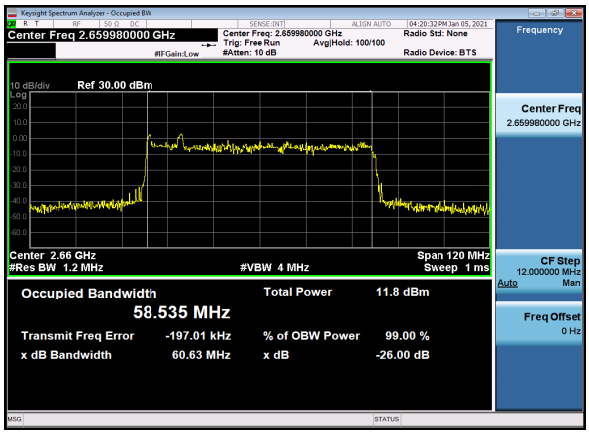
B2_N41(60M)_DFT-s-OFDM_QPSK_Outer_Full_ High CH



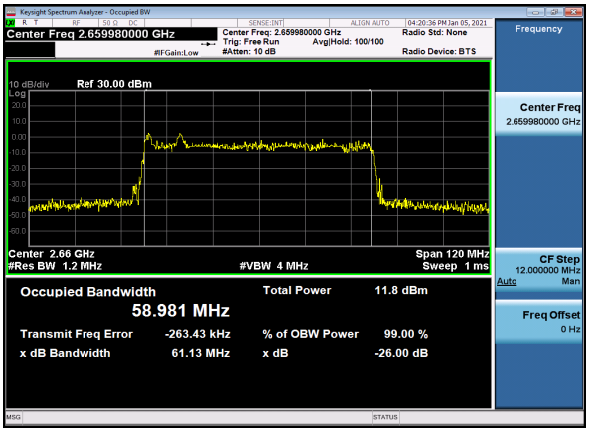
B2_N41(60M)_DFT-s-OFDM_16 QAM_Outer_Full_ High CH



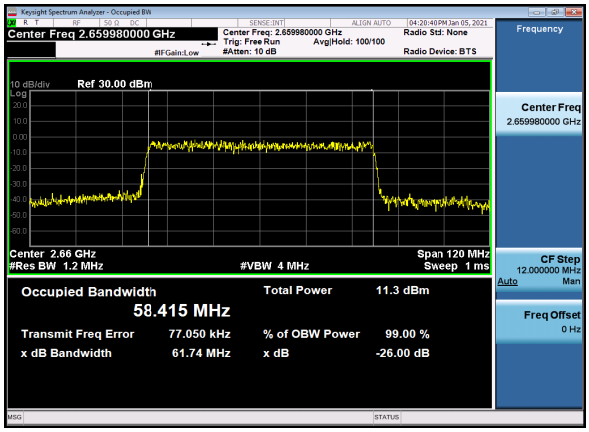
B2_N41(60M)_DFT-s-OFDM_64 QAM_Outer_Full_ High CH



B2_N41(60M)_DFT-s-OFDM_256 QAM_Outer_Full_ High CH



B2_N41(60M)_CP-OFDM_QPSK_Outer_Full _ High CH



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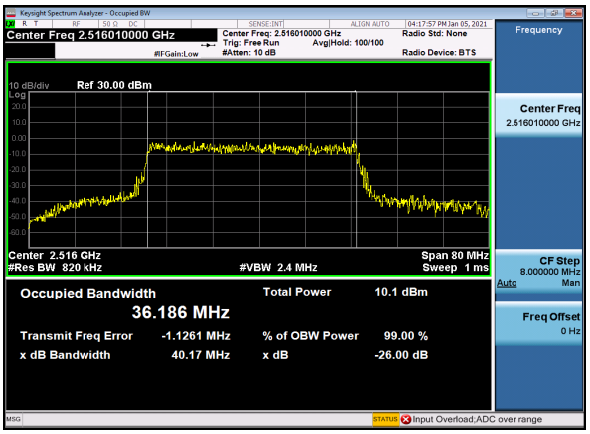

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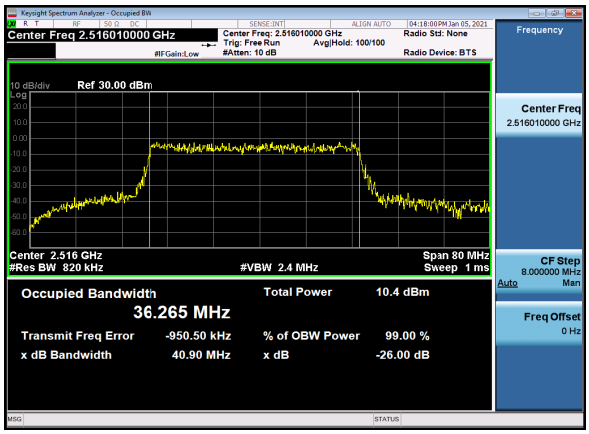
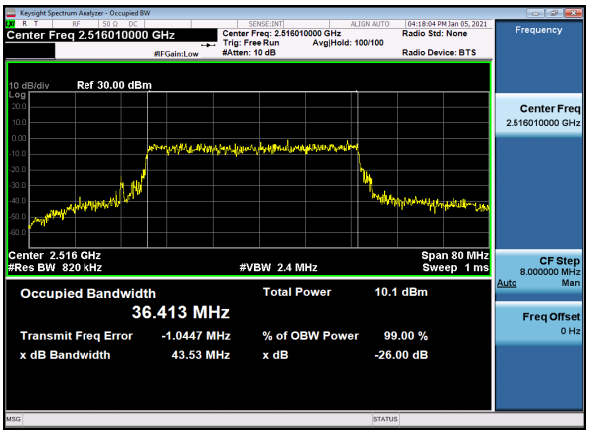
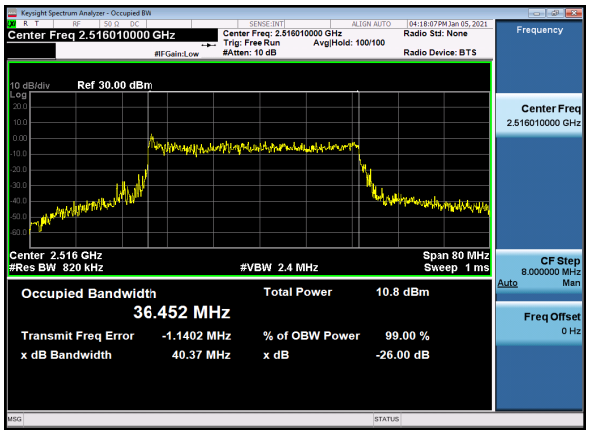


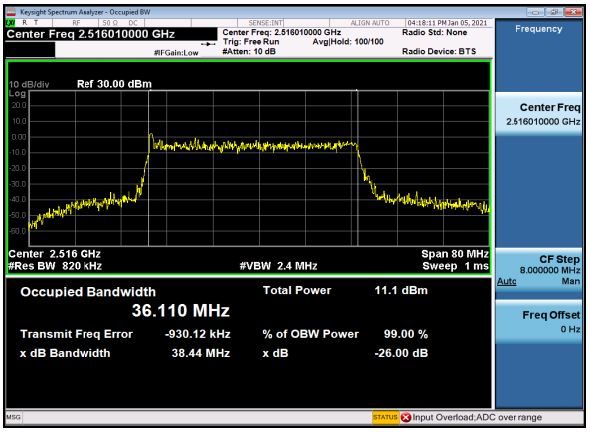
B2_N41(40M)_DFT-s-OFDM_16 QAM_Outer_Full_ Low CH



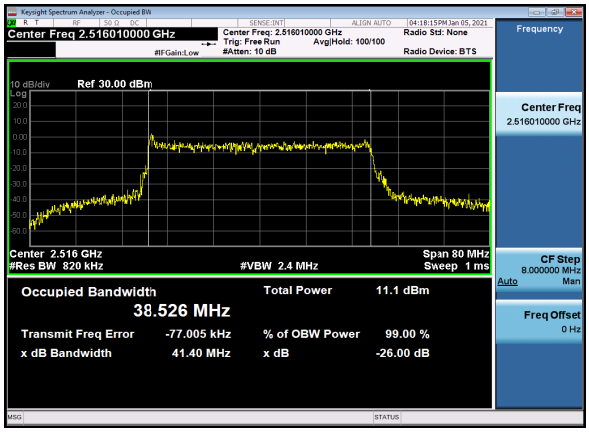
B2_N41(40M)_DFT-s-OFDM_64 QAM_Outer_Full_ Low CH



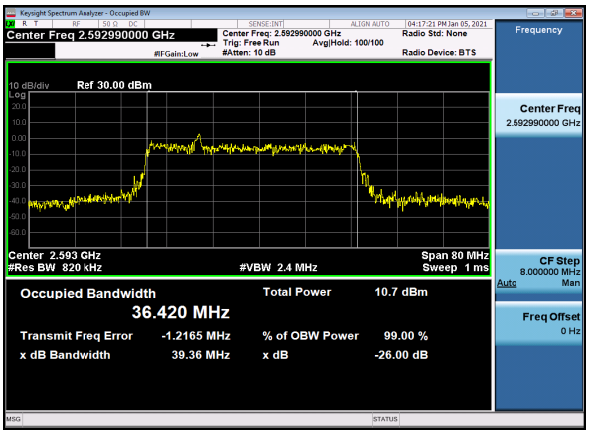
B2_N41(40M)_DFT-s-OFDM_256 QAM_Outer_Full_ Low CH



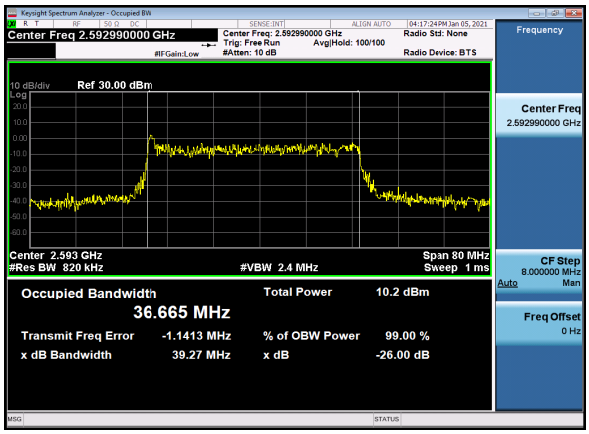
B2_N41(40M)_CP-OFDM_QPSK_Outer_Full _ Low CH



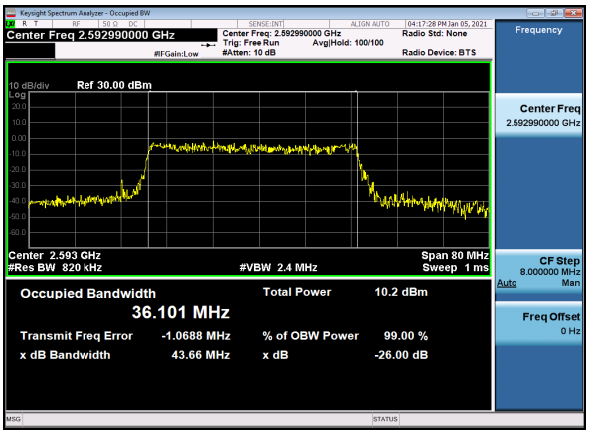
B2_N41(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_ Mid CH



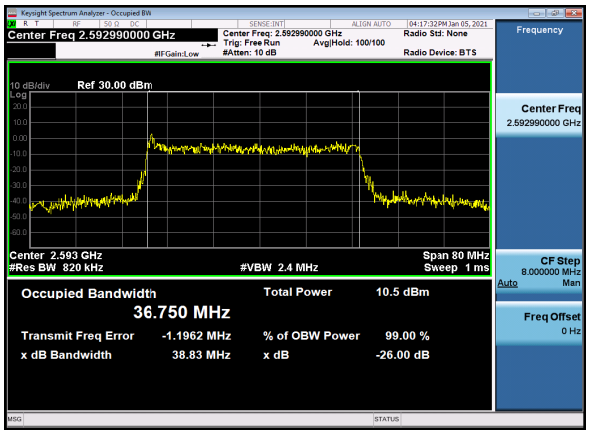
B2_N41(40M)_DFT-s-OFDM_QPSK_Outer_Full_ Mid CH



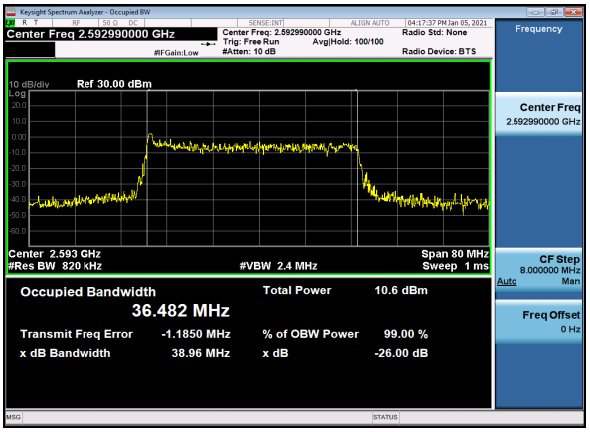
B2_N41(40M)_DFT-s-OFDM_16 QAM_Outer_Full_ Mid CH



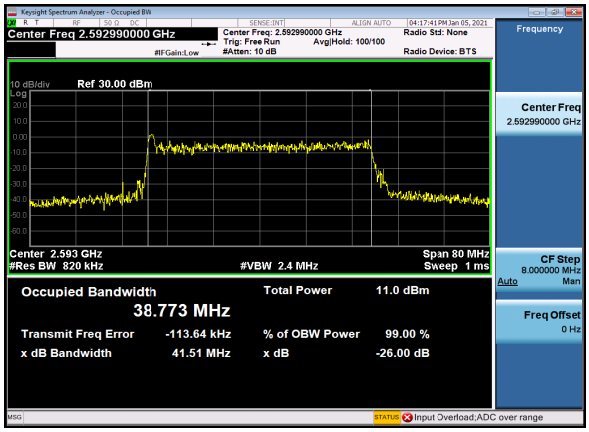
B2_N41(40M)_DFT-s-OFDM_64 QAM_Outer_Full_ Mid CH



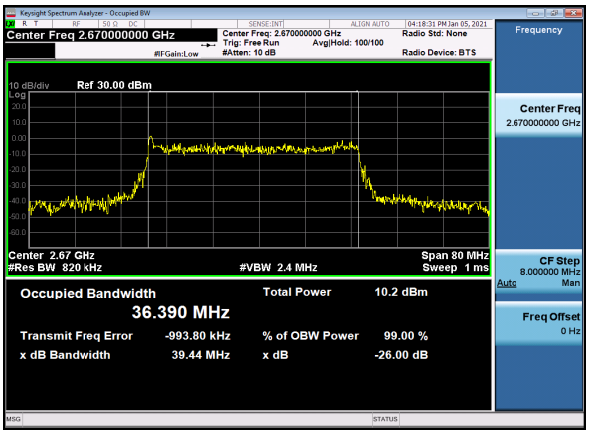
B2_N41(40M)_DFT-s-OFDM_256 QAM_Outer_Full_ Mid CH



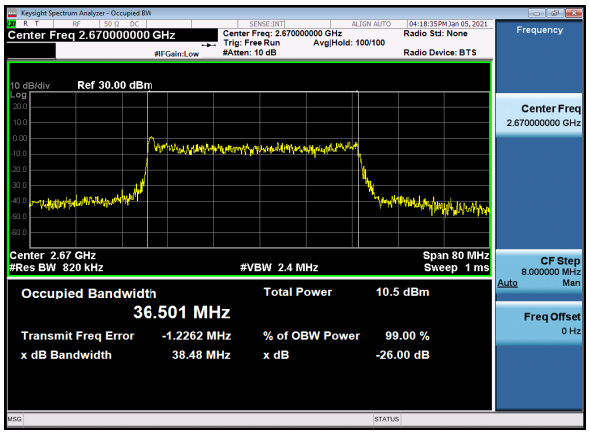
B2_N41(40M)_CP-OFDM_QPSK_Outer_Full _ Mid CH



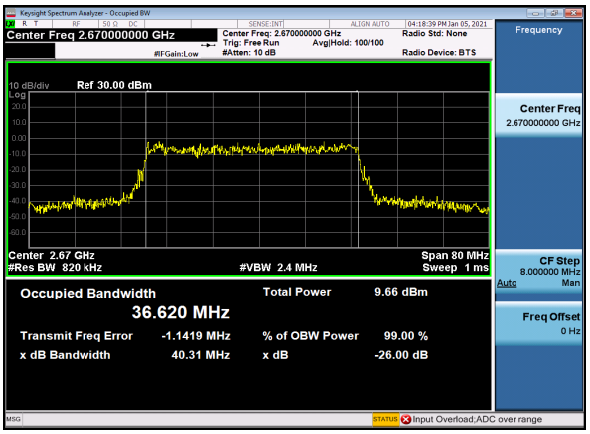
B2_N41(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_ High CH



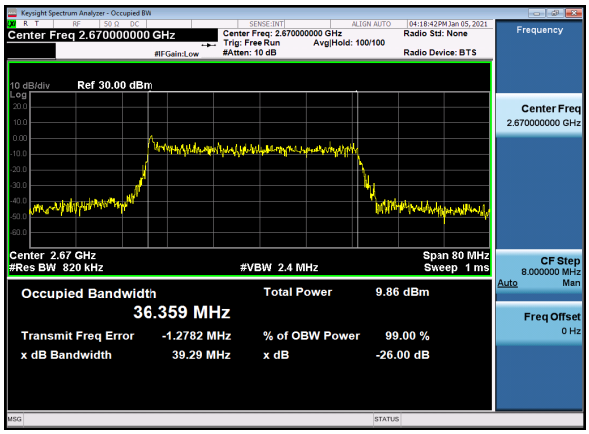
B2_N41(40M)_DFT-s-OFDM_QPSK_Outer_Full_ High CH



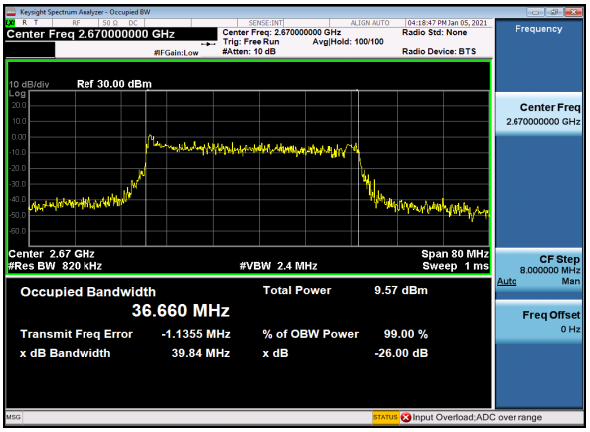
B2_N41(40M)_DFT-s-OFDM_16 QAM_Outer_Full_ High CH



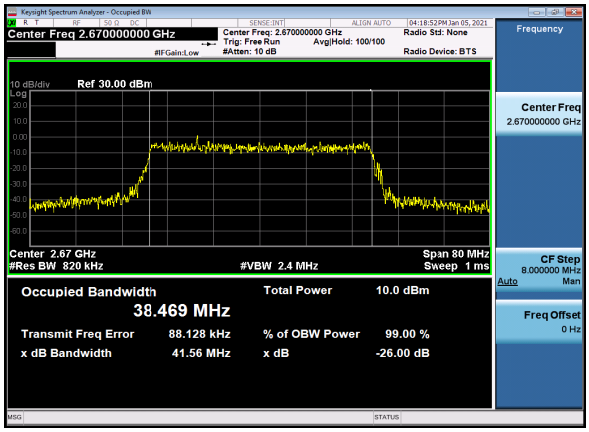
B2_N41(40M)_DFT-s-OFDM_64 QAM_Outer_Full_ High CH



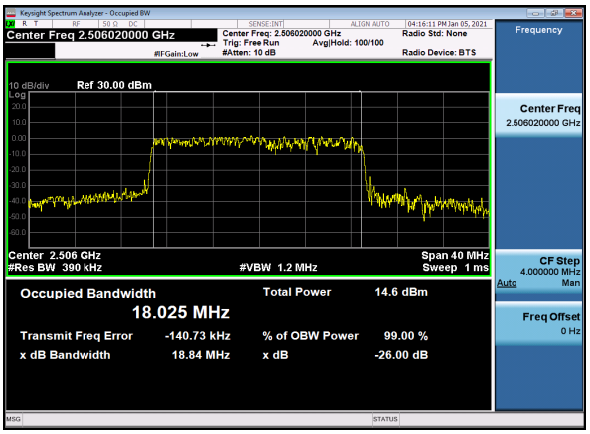
B2_N41(40M)_DFT-s-OFDM_256 QAM_Outer_Full_ High CH



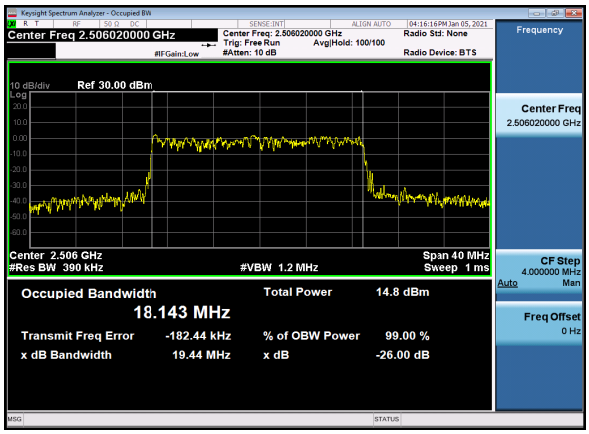
B2_N41(40M)_CP-OFDM_QPSK_Outer_Full _ High CH



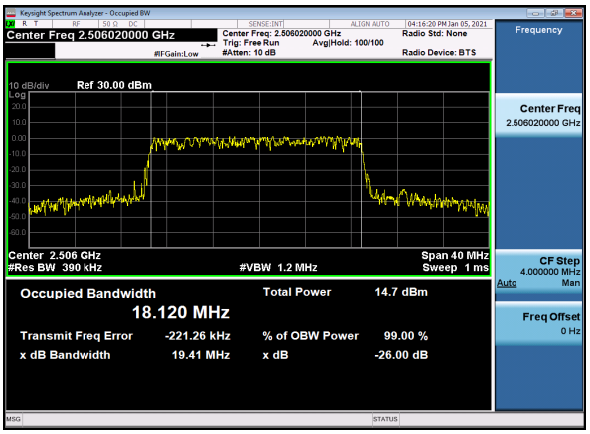
B2_N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_ Low CH



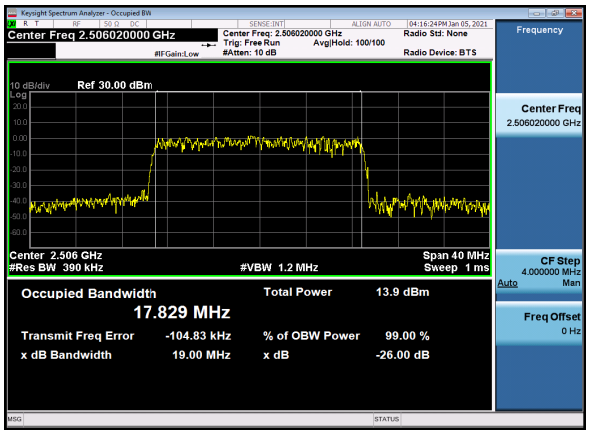
B2_N41(20M)_DFT-s-OFDM_QPSK_Outer_Low CH



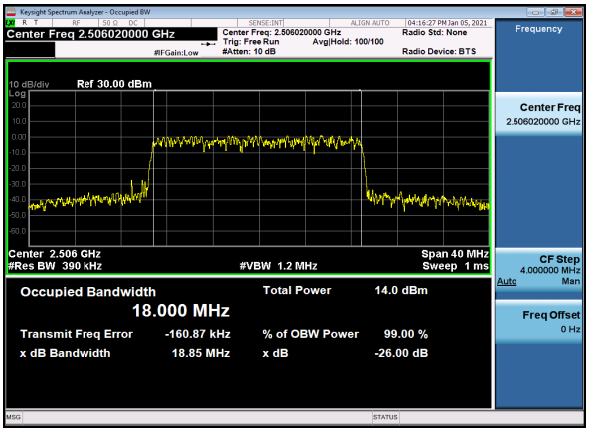
B2_N41(20M)_DFT-s-OFDM_16 QAM_Outer_Full_ Low CH



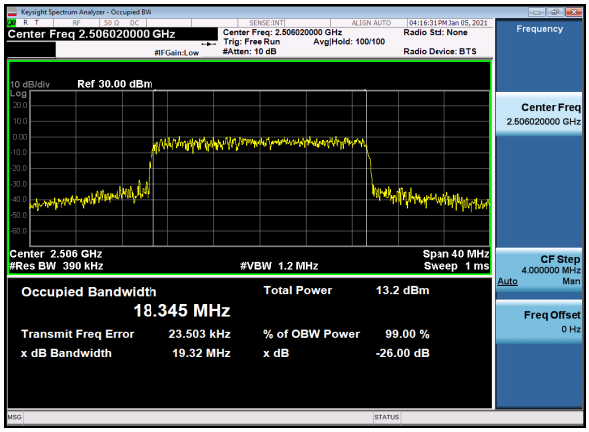
B2_N41(20M)_DFT-s-OFDM_64 QAM_Outer_Full_ Low CH



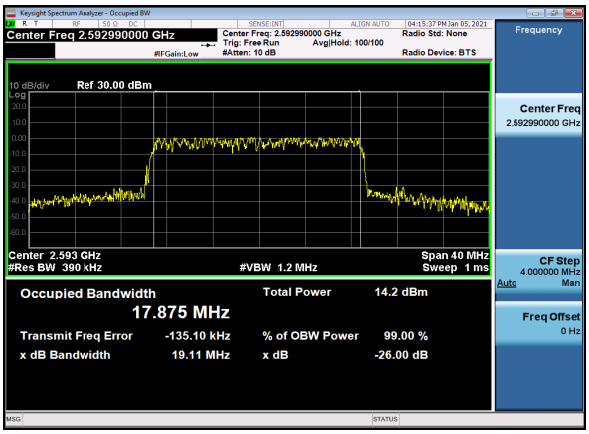
B2_N41(20M)_DFT-s-OFDM_256 QAM_Outer_Full_ Low CH



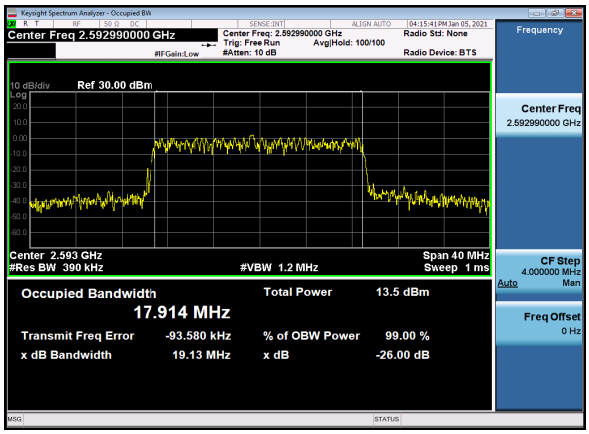
B2_N41(20M)_CP-OFDM_QPSK_Outer_Full _ Low CH



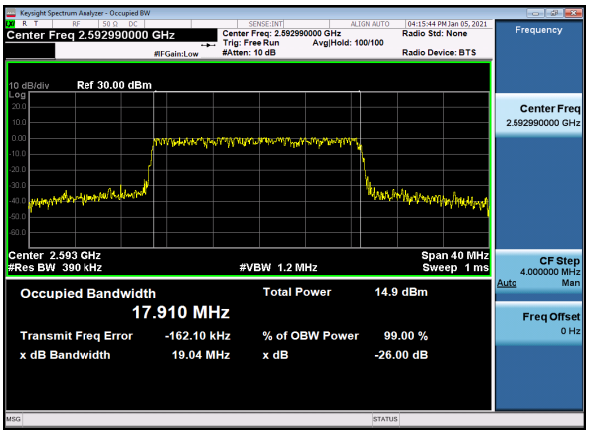
B2_N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_ Mid CH



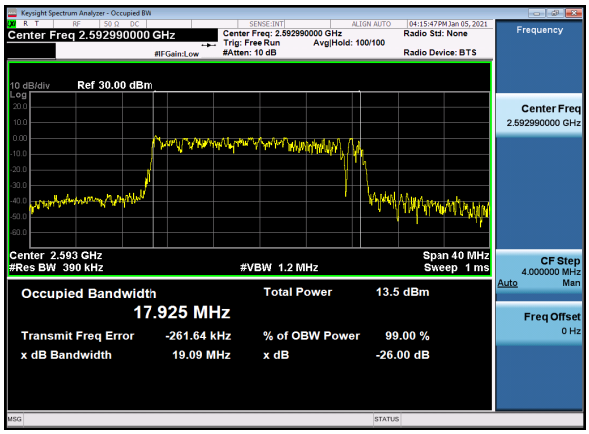
B2_N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_ Mid CH



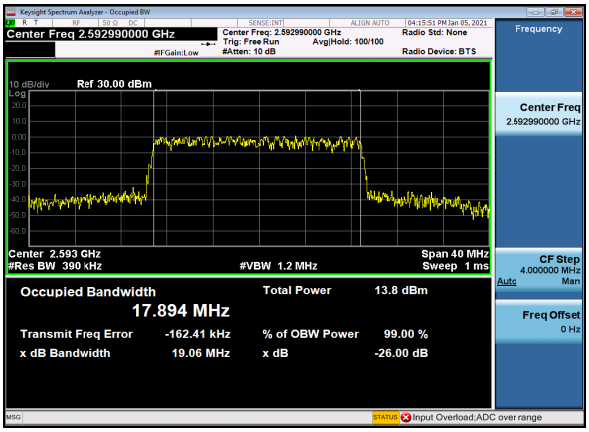
B2_N41(20M)_DFT-s-OFDM_16 QAM_Outer_Full_ Mid CH



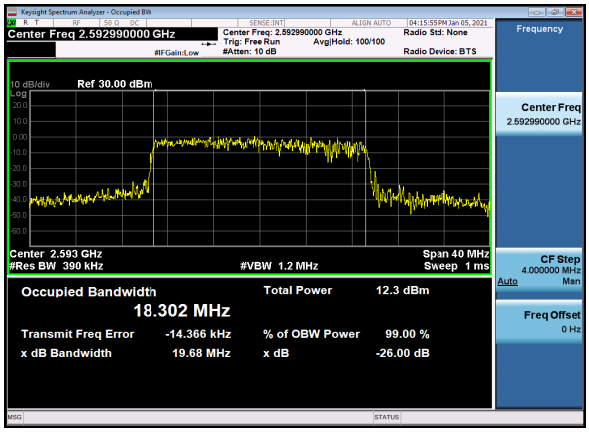
B2_N41(20M)_DFT-s-OFDM_64 QAM_Outer_Full_ Mid CH



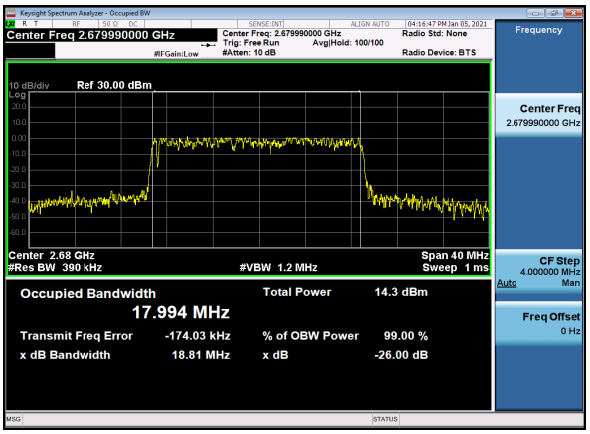
B2_N41(20M)_DFT-s-OFDM_256 QAM_Outer_Full_ Mid CH



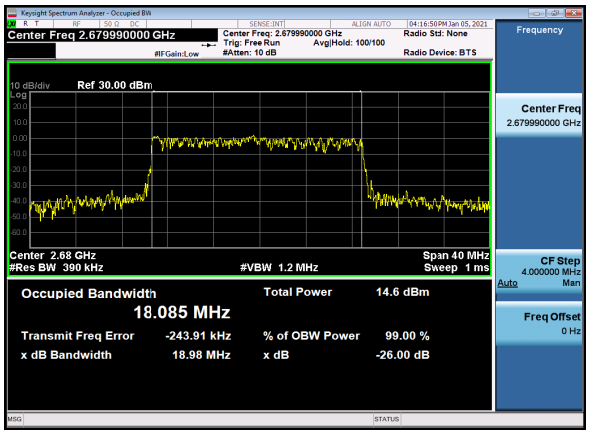
B2_N41(20M)_CP-OFDM_QPSK_Outer_Full _ Mid CH



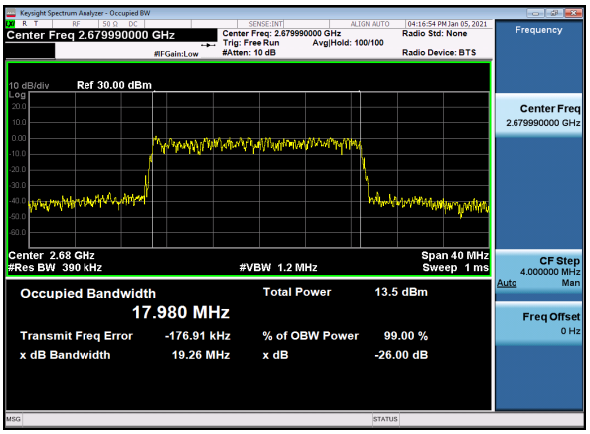
B2_N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_ High CH



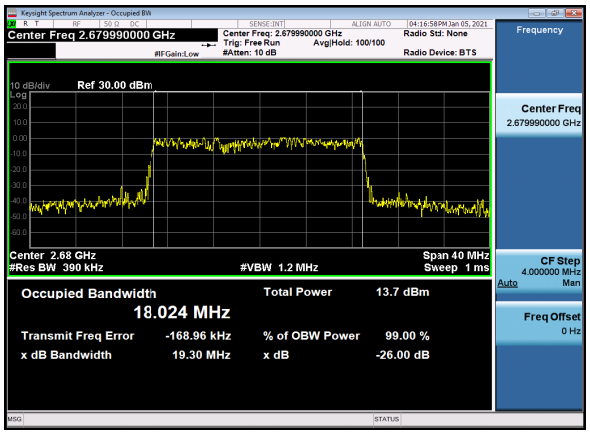
B2_N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_ High CH



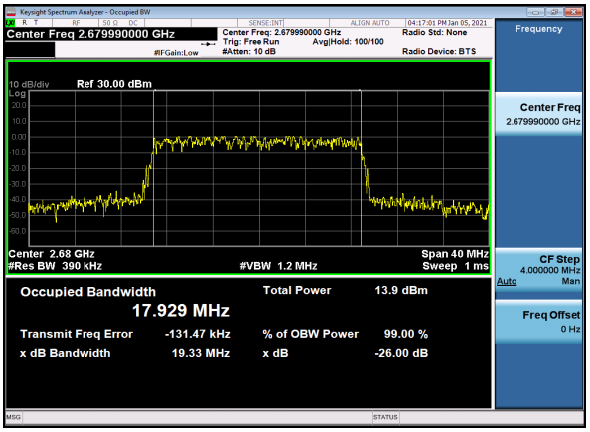
B2_N41(20M)_DFT-s-OFDM_16 QAM_Outer_Full_ High CH



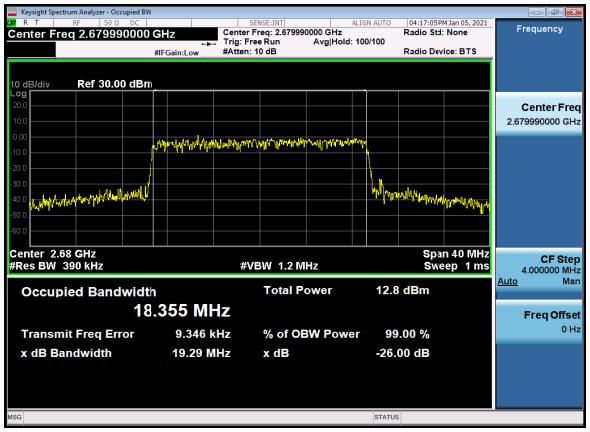
B2_N41(20M)_DFT-s-OFDM_64 QAM_Outer_Full_ High CH



B2_N41(20M)_DFT-s-OFDM_256 QAM_Outer_Full_ High CH



B2_N41(20M)_CP-OFDM_QPSK_Outer_Full _ High CH



2.3. Frequency Stability

2.3.1. Requirement

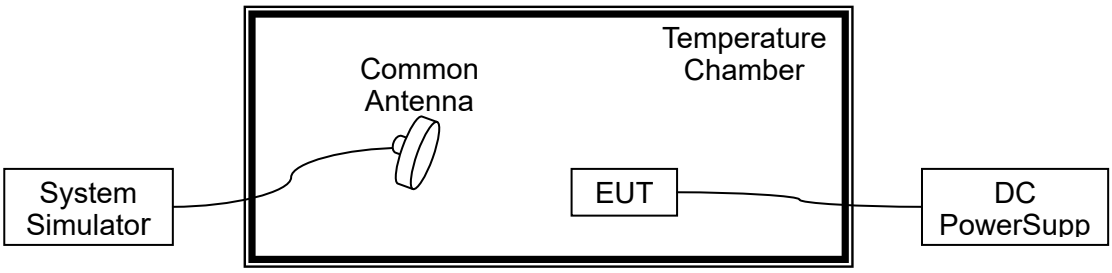
According to FCC section 2.1055 & 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

(a) The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.

(b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from 0°C to 40°C, which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.85VDC, 4.2VDC and 3.6VDC, which are specified by the applicant; the normal temperature here used is 20°C.

NR n41, QPSK, Channel 518598, SCS 30kHz, Frequency 2592.99MHz Limit =±1ppm					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	61	0.024	PASS
100		0	-42	-0.016	
100		+10	36	0.014	
100		+20	-23	-0.009	
100		+30	16	0.006	
100		+40	53	0.020	
115	4.45	+20	30	0.012	
85	3.45	+20	42	0.016	

2.4. Conducted Spurious Emissions

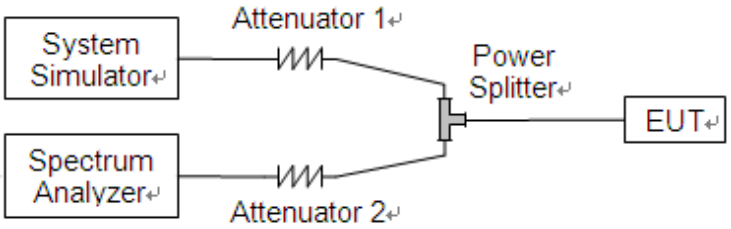
2.4.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

Additional requirement for N41:

The power of any emission outside of the authorized operating frequency ranges must beattenuated below the transmitting power (P) by a factor of at least 55 + 10 log(P) dB. This calculated to be -25dBm.

2.4.2. Test Description



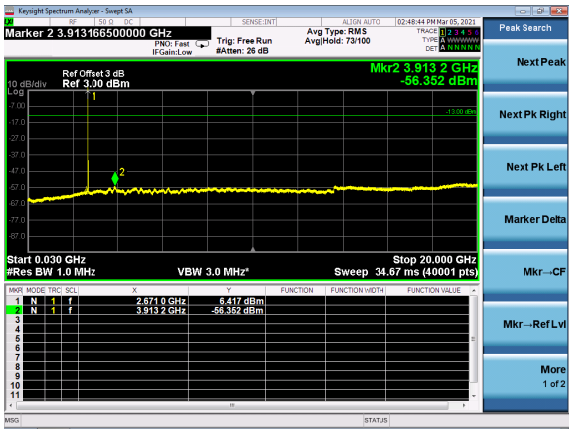
The EUTis coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

2.4.3. Test procedure

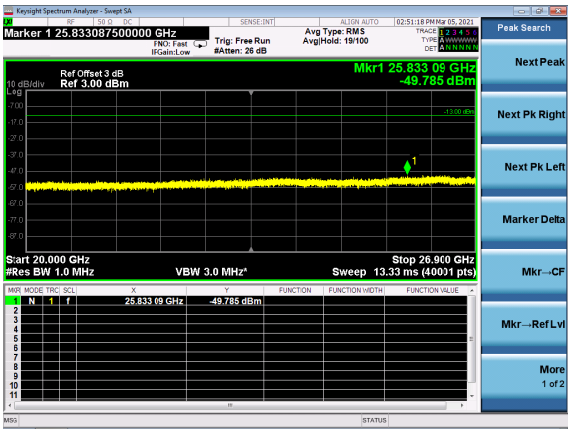
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

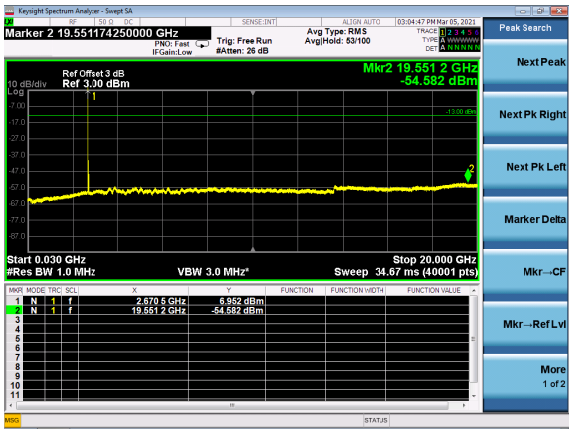
B2_N41(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



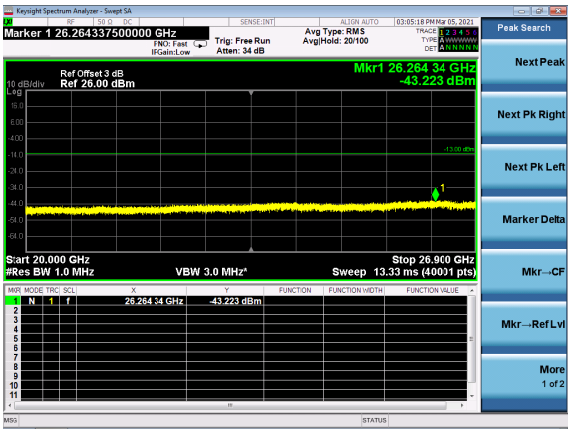
B2_N41(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



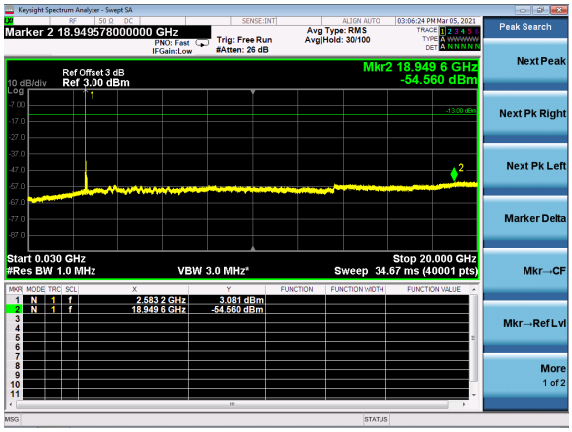
B2_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



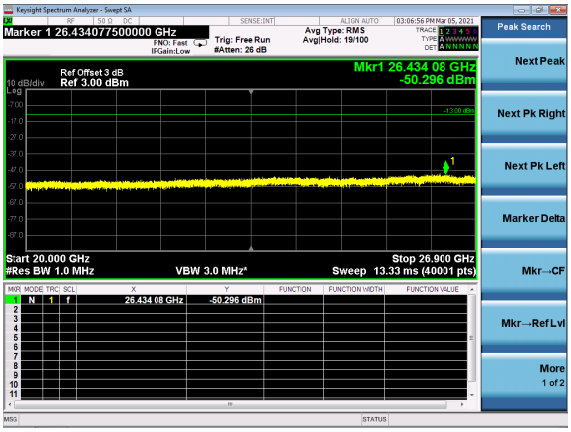
B2_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



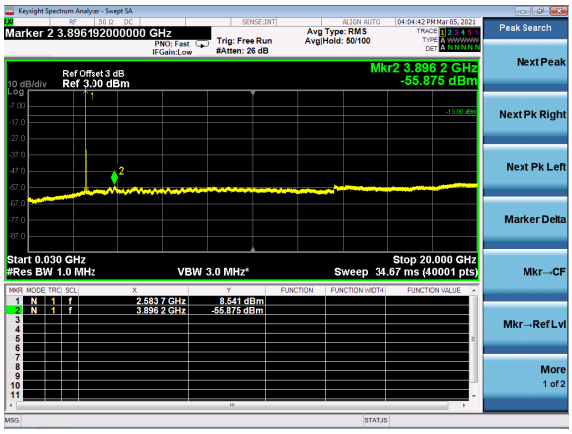
B2_N41(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



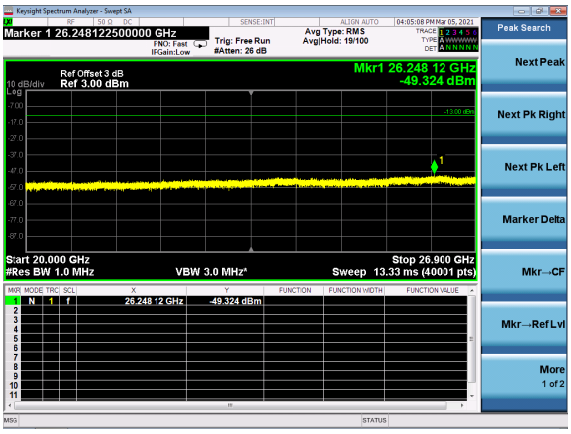
B2_N41(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



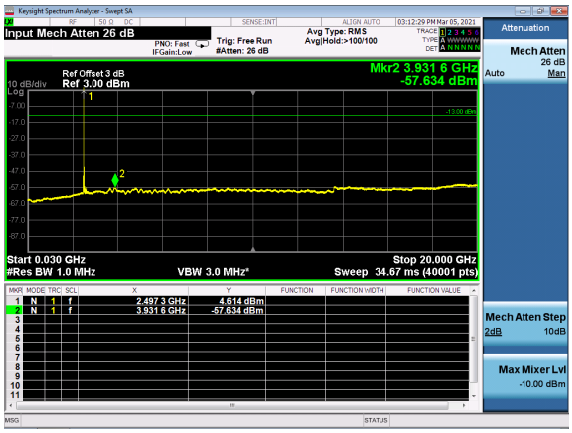
B2_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



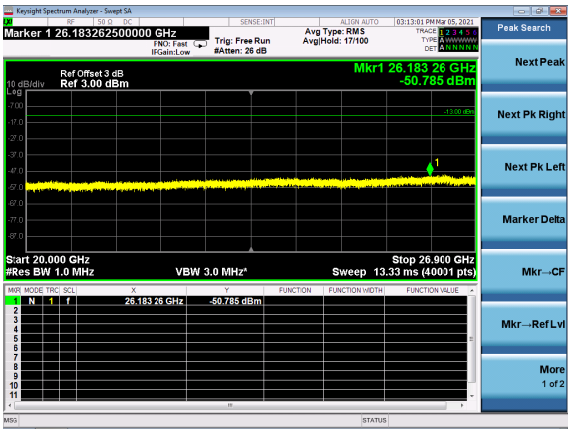
B2_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



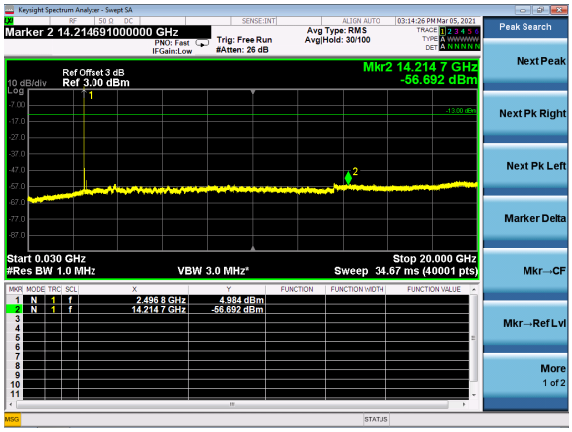
B2_N41(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N41(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B2_N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH