



REPORT No. : SZ19120121W01

TEST REPORT

APPLICANT : HAJEN Co., Ltd

PRODUCT NAME : HAJEN_SPRINT AI Speaker

MODEL NAME : FIXTA

BRAND NAME : HAJEN CO

FCC ID : 2ACFTRT1505NN

STANDARD(S) : 47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart M

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Change History		
Version	Date	Reason for change
1.0	2020-07-22	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	HAJEN Co., Ltd
Applicant Address:	D-304 Digital Empire Bldg,. 16, Deogyong-daero 1556beon-gil, Yeongtonggu, Suwon-si, South Korea
Manufacturer:	HAJEN Co., Ltd
ManufacturerAddress:	D-304 Digital Empire Bldg,. 16, Deogyong-daero 1556beon-gil, Yeongtonggu, Suwon-si, South Korea

1.2. Equipment Under Test (EUT) Description

Product Name:	HAJEN_SPRINT AI Speaker	
Hardware Version:	V03	
Software Version:	3.6.138365.0	
Modulation Type:	QPSK, 16QAM	
Operation Band:	Band 2 / 25 / 26 / 41	
Frequency Range:	LTE Band 2	Tx: 1850MHz -1910MHz
		Rx: 1930MHz -1990MHz
	LTE Band 25	Tx:1850MHz – 1915MHz
		Rx:1930MHz – 1995MHz
	LTE Band 26	Tx: 824MHz – 849MHz
		Rx: 869MHz – 894MHz
	LTE Band 41	Tx: 2496MHz – 2690MHz
		Tx: 2496MHz – 2690MHz
Channel Bandwidth:	LTE Band 2	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 25	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 26	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz
	LTE Band 41	5 MHz, 10MHz, 15 MHz, 20 MHz
Antenna Type:	Internal FPC Antenna	
Antenna Gain:	LTE Band 2	3.44 dBi
	LTE Band 25	3.44 dBi
	LTE Band 26	0.23 dBi
	LTE Band 41	4.55 dBi



Accessory Information:	Battery	
	Brand Name:	A&S Power Technology Co., Ltd.
	Model No.:	AS-853450-1500-122
	Capacity:	3000mAh
	Rated Voltage:	3.70V
	Charge Limit:	4.20V

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

LTE Band2	Maximum ERP/EIRP (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.084	0.064	18M0G7D	18M0W7D
15	0.082	0.063	13M5G7D	13M5W7D
10	0.081	0.065	9M00G7D	8M97W7D
5	0.078	0.060	4M52G7D	4M52W7D
3	0.076	0.061	2M71G7D	2M71W7D
1.4	0.077	0.060	1M10G7D	1M10W7D
LTE Band25	Maximum ERP/EIRP (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.104	0.077	18M0G7D	18M0G7D
15	0.102	0.085	13M5G7D	13M5W7D
10	0.096	0.086	9M01G7D	8M98W7D
5	0.102	0.079	4M51G7D	4M51W7D
3	0.102	0.086	2M71G7D	2M71W7D
1.4	0.102	0.079	1M10G7D	1M11W7D
LTE Band26	Maximum ERP/EIRP (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
15	0.069	0.049	13M4G7D	13M4G7D
10	0.068	0.048	8M91G7D	8M91W7D
5	0.068	0.048	4M46G7D	4M46W7D
3	0.067	0.047	2M73G7D	2M72W7D
1.4	0.068	0.048	1M15G7D	1M16W7D
LTE Band41	Maximum ERP/EIRP (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.275	0.189	18M0G7D	18M0G7D
15	0.261	0.199	13M5G7D	13M5G7D
10	0.244	0.210	9M00G7D	8M98W7D
5	0.084	0.070	4M51G7D	4M51W7D



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24 and 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
3	47 CFR Part 24	Personal Communications 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, 22.913(a)(2), 24.232(c), 27.50(c)(10) 27.50(d)(4), 27.50(h)(2) 27.50(a)(3)	Transmitter Conducted Output Power and ERP/EIRP	June 1 to 08, 2020	Chen Hao	PASS	No deviation
2.1049	Occupied Bandwidth	Apr 23 to 28, 2020	He Dekuan	PASS	No deviation
2.1055, 24.235	Peak to Average Radio	Apr 23 to 28, 2020	He Dekuan	PASS	No deviation
24.232(d)	Frequency Stability	Mar 26 to Apr 3, 2020	He Dekuan	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Conducted Spurious Emissions	Apr 23 to 28, 2020	He Dekuan	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Band Edge	Apr 23 to 28, 2020	He Dekuan	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Radiated Spurious Emissions	May 30 to June 13, 2020	Peng Xuewei	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 24E and 27M Requirements

2.1. Transmitter Conducted Output Power And ERP/EIRP

2.1.1. Requirement

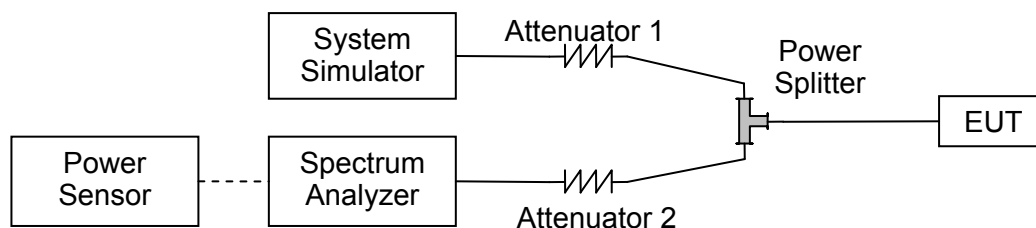
According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current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

According to FCC section 22.913 (a.2) for LTE Band 26, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 24.232 (c) for LTE Band 2/25, Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50 (h) for LTE Band 41, Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

2.1.2. Test Description



The EUT is 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 50 Ohm; 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.

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$

2.1.4. Result

**Conducted Output Power:**

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	15.62	15.82	15.81
20	QPSK	1	49	15.12	15.08	15.31
20	QPSK	1	99	15.28	15.42	15.53
20	QPSK	50	0	14.41	14.61	14.74
20	QPSK	50	24	14.02	14.32	14.23
20	QPSK	50	50	14.15	14.29	14.28
20	QPSK	100	0	14.57	14.45	14.24
20	16QAM	1	0	14.55	14.25	14.03
20	16QAM	1	49	14.53	14.21	14.21
20	16QAM	1	99	14.51	14.31	14.61
20	16QAM	50	0	13.59	13.57	13.59
20	16QAM	50	24	13.23	13.22	13.28
20	16QAM	50	50	13.43	13.28	13.27
20	16QAM	100	0	13.35	13.32	13.18



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	15.69	15.59	15.58
15	QPSK	1	37	15.26	15.44	15.22
15	QPSK	1	74	15.21	15.19	15.24
15	QPSK	36	0	14.47	14.36	14.38
15	QPSK	36	20	14.16	13.99	14.25
15	QPSK	36	39	14.18	14.03	14.17
15	QPSK	75	0	14.31	14.21	14.22
15	16QAM	1	0	14.43	14.23	14.26
15	16QAM	1	37	14.13	14.02	14.58
15	16QAM	1	74	14.38	14.21	14.27
15	16QAM	36	0	13.38	13.27	13.28
15	16QAM	36	20	13.08	13.19	13.16
15	16QAM	36	39	13.11	13.02	13.42
15	16QAM	75	0	13.31	13.21	13.14



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	15.39	15.23	15.12
10	QPSK	1	25	15.21	15.22	15.23
10	QPSK	1	49	15.27	15.62	15.61
10	QPSK	25	0	14.32	14.03	14.06
10	QPSK	25	12	14.13	14.21	14.02
10	QPSK	25	25	14.11	13.81	14.11
10	QPSK	50	0	14.16	14.37	14.59
10	16QAM	1	0	14.54	14.68	14.65
10	16QAM	1	25	14.16	14.21	14.21
10	16QAM	1	49	14.21	14.52	14.02
10	16QAM	25	0	13.41	13.24	13.52
10	16QAM	25	12	13.23	13.62	13.27
10	16QAM	25	25	13.27	13.53	13.15
10	16QAM	50	0	13.39	13.51	13.41



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	15.37	15.15	15.26
5	QPSK	1	12	15.47	15.22	15.08
5	QPSK	1	24	15.37	15.34	15.24
5	QPSK	12	0	14.52	14.21	14.15
5	QPSK	12	7	14.21	14.27	14.21
5	QPSK	12	13	14.12	14.14	14.04
5	QPSK	25	0	14.16	14.12	14.22
5	16QAM	1	0	14.03	14.22	14.36
5	16QAM	1	12	14.07	14.28	14.21
5	16QAM	1	24	13.99	14.12	14.18
5	16QAM	12	0	13.52	13.51	13.21
5	16QAM	12	7	13.16	13.22	13.51
5	16QAM	12	13	13.09	13.24	13.24
5	16QAM	25	0	13.05	13.24	13.12



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	15.05	15.12	15.24
3	QPSK	1	8	15.11	15.34	15.17
3	QPSK	1	14	15.04	15.22	15.24
3	QPSK	8	0	14.25	14.28	14.07
3	QPSK	8	4	14.11	14.34	14.13
3	QPSK	8	7	14.08	14.36	14.09
3	QPSK	15	0	14.09	14.35	14.15
3	16QAM	1	0	14.42	14.32	14.27
3	16QAM	1	8	14.08	14.25	14.12
3	16QAM	1	14	14.12	14.05	14.04
3	16QAM	8	0	13.24	13.51	13.21
3	16QAM	8	4	13.11	13.24	13.31
3	16QAM	8	7	13.14	13.28	13.21
3	16QAM	15	0	13.15	13.37	13.32



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	15.05	15.11	15.07
1.4	QPSK	1	3	15.08	15.22	15.07
1.4	QPSK	1	5	15.21	15.14	15.14
1.4	QPSK	3	0	15.13	15.17	15.11
1.4	QPSK	3	1	15.17	15.19	15.16
1.4	QPSK	3	3	15.21	15.41	15.13
1.4	QPSK	6	0	14.11	14.23	14.15
1.4	16QAM	1	0	14.06	14.21	14.18
1.4	16QAM	1	3	14.37	14.13	14.29
1.4	16QAM	1	5	14.22	14.28	14.12
1.4	16QAM	3	0	14.18	14.28	14.31
1.4	16QAM	3	1	14.21	14.21	14.03
1.4	16QAM	3	3	14.02	13.87	14.31
1.4	16QAM	6	0	13.13	13.27	13.29



LTE Band 25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26140	26365	26590
Frequency (MHz)				1860	1882.5	1905
20	QPSK	1	0	16.56	16.71	16.51
20	QPSK	1	49	16.36	16.55	16.22
20	QPSK	1	99	16.17	16.25	16.41
20	QPSK	50	0	15.25	15.37	15.24
20	QPSK	50	24	15.17	15.22	15.21
20	QPSK	50	50	15.21	15.34	15.15
20	QPSK	100	0	15.22	15.21	15.11
20	16QAM	1	0	15.45	15.14	15.39
20	16QAM	1	49	15.24	15.21	15.15
20	16QAM	1	99	15.41	15.11	15.12
20	16QAM	50	0	14.22	14.05	14.21
20	16QAM	50	24	14.21	14.21	14.22
20	16QAM	50	50	14.12	14.19	14.14
20	16QAM	100	0	14.22	14.02	14.15



LTE Band 25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26115	26365	26615
Frequency (MHz)				1857.5	1882.5	1907.5
15	QPSK	1	0	16.62	16.64	16.54
15	QPSK	1	37	16.18	16.21	16.02
15	QPSK	1	74	16.19	16.41	16.47
15	QPSK	36	0	15.48	15.36	15.51
15	QPSK	36	20	15.14	15.14	15.32
15	QPSK	36	39	15.21	15.17	15.31
15	QPSK	75	0	15.39	15.36	15.51
15	16QAM	1	0	15.34	15.86	15.21
15	16QAM	1	37	15.05	15.44	15.09
15	16QAM	1	74	15.78	15.55	15.51
15	16QAM	36	0	14.41	14.52	14.55
15	16QAM	36	20	14.08	14.15	14.31
15	16QAM	36	39	14.17	14.12	14.22
15	16QAM	75	0	14.35	14.34	14.47



LTE Band 25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26090	26365	26640
Frequency (MHz)				1855	1882.5	1910
10	QPSK	1	0	16.21	16.26	16.14
10	QPSK	1	25	16.11	16.21	16.31
10	QPSK	1	49	16.06	16.09	16.39
10	QPSK	25	0	15.19	15.11	15.25
10	QPSK	25	12	15.16	15.23	15.28
10	QPSK	25	25	15.09	15.21	15.41
10	QPSK	50	0	15.12	15.19	15.31
10	16QAM	1	0	15.72	15.62	15.38
10	16QAM	1	25	15.06	15.46	15.24
10	16QAM	1	49	15.34	15.31	15.93
10	16QAM	25	0	14.17	14.14	14.09
10	16QAM	25	12	14.04	14.21	14.42
10	16QAM	25	25	14.12	14.09	14.31
10	16QAM	50	0	14.13	14.25	14.42



LTE Band 25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26065	26365	26665
Frequency (MHz)				1852.5	1882.5	1912.5
5	QPSK	1	0	16.55	16.44	16.65
5	QPSK	1	12	16.51	16.22	16.25
5	QPSK	1	24	16.19	16.05	16.19
5	QPSK	12	0	15.23	15.14	15.29
5	QPSK	12	7	15.22	15.24	15.32
5	QPSK	12	13	15.21	15.05	15.05
5	QPSK	25	0	15.21	15.11	15.12
5	16QAM	1	0	15.21	15.12	15.32
5	16QAM	1	12	15.22	15.07	15.31
5	16QAM	1	24	15.02	15.39	15.51
5	16QAM	12	0	14.16	14.14	14.13
5	16QAM	12	7	14.26	14.18	14.25
5	16QAM	12	13	14.21	14.25	14.34
5	16QAM	25	0	14.13	14.21	14.07



LTE Band 25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				25935	26365	26675
Frequency (MHz)				1851.5	1882.5	1913.5
3	QPSK	1	0	16.44	16.51	16.63
3	QPSK	1	8	16.25	16.24	16.56
3	QPSK	1	14	16.09	16.05	16.13
3	QPSK	8	0	15.29	15.21	15.22
3	QPSK	8	4	15.23	15.24	15.24
3	QPSK	8	7	15.01	15.21	15.35
3	QPSK	15	0	15.14	15.05	15.03
3	16QAM	1	0	15.89	15.92	15.56
3	16QAM	1	8	15.04	15.23	15.24
3	16QAM	1	14	15.16	15.16	15.75
3	16QAM	8	0	14.21	14.16	14.27
3	16QAM	8	4	14.23	14.21	14.03
3	16QAM	8	7	14.32	14.21	13.84
3	16QAM	15	0	14.12	14.03	14.09



LTE Band 25						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26047	26365	26683
Frequency (MHz)				1850.7	1882.5	1914.3
1.4	QPSK	1	0	16.43	16.56	16.66
1.4	QPSK	1	3	16.21	16.24	16.21
1.4	QPSK	1	5	16.37	16.11	16.21
1.4	QPSK	3	0	16.24	16.21	16.22
1.4	QPSK	3	1	16.23	16.24	16.23
1.4	QPSK	3	3	16.34	16.34	16.31
1.4	QPSK	6	0	15.21	15.24	15.22
1.4	16QAM	1	0	15.22	15.54	15.31
1.4	16QAM	1	3	15.21	15.21	15.22
1.4	16QAM	1	5	15.26	15.54	15.43
1.4	16QAM	3	0	15.22	15.12	15.31
1.4	16QAM	3	1	15.12	15.22	15.21
1.4	16QAM	3	3	15.11	15.14	15.11
1.4	16QAM	6	0	14.09	14.21	14.04



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26865	26915	26965
Frequency (MHz)				831.5	836.5	841.5
15	QPSK	1	0	20.24	20.31	20.22
15	QPSK	1	37	19.68	20.21	20.16
15	QPSK	1	74	19.88	19.76	19.62
15	QPSK	36	0	18.49	18.51	18.45
15	QPSK	36	20	18.27	18.09	18.21
15	QPSK	36	39	18.31	18.25	18.11
15	QPSK	75	0	18.43	18.31	18.44
15	16QAM	1	0	18.48	18.24	18.65
15	16QAM	1	37	18.15	18.08	18.22
15	16QAM	1	74	18.66	18.36	18.82
15	16QAM	36	0	17.37	17.48	17.51
15	16QAM	36	20	17.28	17.07	17.14
15	16QAM	36	39	17.21	17.13	17.21
15	16QAM	75	0	17.45	17.16	17.34



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26840	26915	26990
Frequency (MHz)				829.0	836.5	844.0
10	QPSK	1	0	19.84	20.21	19.76
10	QPSK	1	25	20.13	19.94	20.24
10	QPSK	1	49	19.43	19.36	19.44
10	QPSK	25	0	18.53	18.42	18.51
10	QPSK	25	12	18.32	18.28	18.19
10	QPSK	25	25	18.28	18.23	18.23
10	QPSK	50	0	18.37	18.31	18.48
10	16QAM	1	0	18.76	18.24	18.34
10	16QAM	1	25	18.29	18.12	18.16
10	16QAM	1	49	18.41	18.29	18.66
10	16QAM	25	0	17.52	17.54	17.49
10	16QAM	25	12	17.31	17.13	17.18
10	16QAM	25	25	17.22	17.24	17.29
10	16QAM	50	0	17.3	17.33	17.39



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26815	26915	27015
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	20.26	20.13	20.23
5	QPSK	1	12	19.88	19.87	19.93
5	QPSK	1	24	19.91	20.15	19.91
5	QPSK	12	0	18.63	18.54	18.67
5	QPSK	12	7	18.24	18.27	18.29
5	QPSK	12	13	18.37	18.36	18.62
5	QPSK	25	0	18.59	18.49	18.39
5	16QAM	1	0	18.42	18.44	18.24
5	16QAM	1	12	18.52	18.53	18.77
5	16QAM	1	24	18.62	18.74	18.57
5	16QAM	12	0	17.64	17.51	17.62
5	16QAM	12	7	17.23	17.18	17.42
5	16QAM	12	13	17.34	17.24	17.31
5	16QAM	25	0	17.58	17.38	17.29



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26805	26915	27025
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	20.12	20.21	20.19
3	QPSK	1	8	19.98	19.89	20.14
3	QPSK	1	14	20.12	19.92	19.93
3	QPSK	8	0	18.61	18.57	18.63
3	QPSK	8	4	18.31	18.31	18.24
3	QPSK	8	7	18.39	18.37	18.43
3	QPSK	15	0	18.61	18.51	18.42
3	16QAM	1	0	18.51	18.62	18.54
3	16QAM	1	8	18.55	18.54	18.08
3	16QAM	1	14	18.62	18.46	18.21
3	16QAM	8	0	17.62	17.56	17.65
3	16QAM	8	4	17.26	17.19	17.35
3	16QAM	8	7	17.38	17.44	17.34
3	16QAM	15	0	17.44	17.32	17.37



LTE Band26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26797	26915	27033
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	20.27	20.18	20.09
1.4	QPSK	1	3	20.12	20.12	20.03
1.4	QPSK	1	5	20.12	19.87	20.02
1.4	QPSK	3	0	20.12	19.87	19.95
1.4	QPSK	3	1	20.11	19.66	19.92
1.4	QPSK	3	3	19.98	20.14	20.14
1.4	QPSK	6	0	18.55	18.51	18.61
1.4	16QAM	1	0	18.25	18.25	18.52
1.4	16QAM	1	3	18.42	18.59	18.56
1.4	16QAM	1	5	18.74	18.51	18.61
1.4	16QAM	3	0	18.34	18.37	18.21
1.4	16QAM	3	1	18.24	18.26	18.29
1.4	16QAM	3	3	18.43	18.29	18.37
1.4	16QAM	6	0	17.54	17.42	17.61



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	19.83	19.84	19.81
20	QPSK	1	49	19.67	19.58	19.65
20	QPSK	1	99	19.41	19.43	19.45
20	QPSK	50	0	18.39	18.43	18.47
20	QPSK	50	24	18.19	18.25	18.22
20	QPSK	50	50	18.12	18.25	18.12
20	QPSK	100	0	18.27	18.41	18.27
20	16QAM	1	0	18.17	18.13	18.11
20	16QAM	1	49	18.03	18.21	18.11
20	16QAM	1	99	18.17	18.18	18.19
20	16QAM	50	0	17.41	17.44	17.41
20	16QAM	50	24	17.21	17.17	17.11
20	16QAM	50	50	17.15	17.17	17.26
20	16QAM	100	0	17.27	17.23	17.09



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	19.41	19.61	19.54
15	QPSK	1	37	18.67	19.11	18.83
15	QPSK	1	74	19.27	19.17	19.06
15	QPSK	36	0	18.45	18.41	18.38
15	QPSK	36	20	18.17	18.25	18.13
15	QPSK	36	39	18.07	18.31	18.11
15	QPSK	75	0	18.34	18.26	18.31
15	16QAM	1	0	18.07	18.19	18.31
15	16QAM	1	37	18.24	18.12	18.39
15	16QAM	1	74	18.22	18.44	18.39
15	16QAM	36	0	17.31	17.4	17.38
15	16QAM	36	20	17.15	17.24	17.13
15	16QAM	36	39	17.15	17.21	17.02
15	16QAM	75	0	17.25	17.36	17.26



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	19.18	19.33	19.32
10	QPSK	1	25	18.77	18.98	19.02
10	QPSK	1	49	18.91	19.14	19.11
10	QPSK	25	0	18.19	18.31	18.32
10	QPSK	25	12	18.21	18.29	18.32
10	QPSK	25	25	18.16	18.11	18.31
10	QPSK	50	0	18.31	18.21	18.31
10	16QAM	1	0	18.68	18.61	18.61
10	16QAM	1	25	18.18	18.27	18.31
10	16QAM	1	49	18.39	18.41	18.38
10	16QAM	25	0	17.22	17.36	17.39
10	16QAM	25	12	17.25	17.26	17.38
10	16QAM	25	25	17.08	17.28	17.18
10	16QAM	50	0	17.25	17.37	17.38



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	19.13	19.22	19.11
5	QPSK	1	12	18.92	19.03	19.15
5	QPSK	1	24	18.86	19.09	19.16
5	QPSK	12	0	18.04	18.25	18.35
5	QPSK	12	7	18.12	18.24	18.33
5	QPSK	12	13	18.17	18.07	18.11
5	QPSK	25	0	18.08	18.11	18.15
5	16QAM	1	0	18.37	18.43	18.46
5	16QAM	1	12	18.17	18.27	18.30
5	16QAM	1	24	18.25	18.36	18.35
5	16QAM	12	0	17.07	17.29	17.18
5	16QAM	12	7	17.07	17.37	17.38
5	16QAM	12	13	17.19	17.19	17.31
5	16QAM	25	0	17.13	17.25	17.37

**Effective Radiated Power and Effective Isotropic Radiated Power:**

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	19.06	0.081	19.26	0.084	19.25	0.084
20	QPSK	1	49	18.56	0.072	18.52	0.071	18.75	0.075
20	QPSK	1	99	18.72	0.074	18.86	0.077	18.97	0.079
20	QPSK	50	0	17.85	0.061	18.05	0.064	18.18	0.066
20	QPSK	50	24	17.46	0.056	17.76	0.060	17.67	0.058
20	QPSK	50	50	17.59	0.057	17.73	0.059	17.72	0.059
20	QPSK	100	0	18.01	0.063	17.89	0.062	17.68	0.059
20	16QAM	1	0	17.99	0.063	17.69	0.059	17.47	0.056
20	16QAM	1	49	17.97	0.063	17.65	0.058	17.65	0.058
20	16QAM	1	99	17.95	0.062	17.75	0.060	18.05	0.064
20	16QAM	50	0	17.03	0.050	17.01	0.050	17.03	0.050
20	16QAM	50	24	16.67	0.046	16.66	0.046	16.72	0.047
20	16QAM	50	50	16.87	0.049	16.72	0.047	16.71	0.047
20	16QAM	100	0	16.79	0.048	16.76	0.047	16.62	0.046



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	19.13	0.082	19.03	0.080	19.02	0.080
15	QPSK	1	37	18.70	0.074	18.88	0.077	18.66	0.073
15	QPSK	1	74	18.65	0.073	18.63	0.073	18.68	0.074
15	QPSK	36	0	17.91	0.062	17.80	0.060	17.82	0.061
15	QPSK	36	20	17.60	0.058	17.43	0.055	17.69	0.059
15	QPSK	36	39	17.62	0.058	17.47	0.056	17.61	0.058
15	QPSK	75	0	17.75	0.060	17.65	0.058	17.66	0.058
15	16QAM	1	0	17.87	0.061	17.67	0.058	17.70	0.059
15	16QAM	1	37	17.57	0.057	17.46	0.056	18.02	0.063
15	16QAM	1	74	17.82	0.061	17.65	0.058	17.71	0.059
15	16QAM	36	0	16.82	0.048	16.71	0.047	16.72	0.047
15	16QAM	36	20	16.52	0.045	16.63	0.046	16.60	0.046
15	16QAM	36	39	16.55	0.045	16.46	0.044	16.86	0.049
15	16QAM	75	0	16.75	0.047	16.65	0.046	16.58	0.045



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	18.83	0.076	18.67	0.074	18.56	0.072
10	QPSK	1	25	18.65	0.073	18.66	0.073	18.67	0.074
10	QPSK	1	49	18.71	0.074	19.06	0.081	19.05	0.080
10	QPSK	25	0	17.76	0.060	17.47	0.056	17.50	0.056
10	QPSK	25	12	17.57	0.057	17.65	0.058	17.46	0.056
10	QPSK	25	25	17.55	0.057	17.25	0.053	17.55	0.057
10	QPSK	50	0	17.60	0.058	17.81	0.060	18.03	0.064
10	16QAM	1	0	17.98	0.063	18.12	0.065	18.09	0.064
10	16QAM	1	25	17.60	0.058	17.65	0.058	17.65	0.058
10	16QAM	1	49	17.65	0.058	17.96	0.063	17.46	0.056
10	16QAM	25	0	16.85	0.048	16.68	0.047	16.96	0.050
10	16QAM	25	12	16.67	0.046	17.06	0.051	16.71	0.047
10	16QAM	25	25	16.71	0.047	16.97	0.050	16.59	0.046
10	16QAM	50	0	16.83	0.048	16.95	0.050	16.85	0.048



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	18.81	0.076	18.59	0.072	18.70	0.074
5	QPSK	1	12	18.91	0.078	18.66	0.073	18.52	0.071
5	QPSK	1	24	18.81	0.076	18.78	0.076	18.68	0.074
5	QPSK	12	0	17.96	0.063	17.65	0.058	17.59	0.057
5	QPSK	12	7	17.65	0.058	17.71	0.059	17.65	0.058
5	QPSK	12	13	17.56	0.057	17.58	0.057	17.48	0.056
5	QPSK	25	0	17.60	0.058	17.56	0.057	17.66	0.058
5	16QAM	1	0	17.47	0.056	17.66	0.058	17.80	0.060
5	16QAM	1	12	17.51	0.056	17.72	0.059	17.65	0.058
5	16QAM	1	24	17.43	0.055	17.56	0.057	17.62	0.058
5	16QAM	12	0	16.96	0.050	16.95	0.050	16.65	0.046
5	16QAM	12	7	16.60	0.046	16.66	0.046	16.95	0.050
5	16QAM	12	13	16.53	0.045	16.68	0.047	16.68	0.047
5	16QAM	25	0	16.49	0.045	16.68	0.047	16.56	0.045



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	18.49	0.071	18.56	0.072	18.68	0.074
3	QPSK	1	8	18.55	0.072	18.78	0.076	18.61	0.073
3	QPSK	1	14	18.48	0.070	18.66	0.073	18.68	0.074
3	QPSK	8	0	17.69	0.059	17.72	0.059	17.51	0.056
3	QPSK	8	4	17.55	0.057	17.78	0.060	17.57	0.057
3	QPSK	8	7	17.52	0.056	17.80	0.060	17.53	0.057
3	QPSK	15	0	17.53	0.057	17.79	0.060	17.59	0.057
3	16QAM	1	0	17.86	0.061	17.76	0.060	17.71	0.059
3	16QAM	1	8	17.52	0.056	17.69	0.059	17.56	0.057
3	16QAM	1	14	17.56	0.057	17.49	0.056	17.48	0.056
3	16QAM	8	0	16.68	0.047	16.95	0.050	16.65	0.046
3	16QAM	8	4	16.55	0.045	16.68	0.047	16.75	0.047
3	16QAM	8	7	16.58	0.045	16.72	0.047	16.65	0.046
3	16QAM	15	0	16.59	0.046	16.81	0.048	16.76	0.047



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	18.49	0.071	18.55	0.072	18.51	0.071
1.4	QPSK	1	3	18.52	0.071	18.66	0.073	18.51	0.071
1.4	QPSK	1	5	18.65	0.073	18.58	0.072	18.58	0.072
1.4	QPSK	3	0	18.57	0.072	18.61	0.073	18.55	0.072
1.4	QPSK	3	1	18.61	0.073	18.63	0.073	18.60	0.072
1.4	QPSK	3	3	18.65	0.073	18.85	0.077	18.57	0.072
1.4	QPSK	6	0	17.55	0.057	17.67	0.058	17.59	0.057
1.4	16QAM	1	0	17.50	0.056	17.65	0.058	17.62	0.058
1.4	16QAM	1	3	17.81	0.060	17.57	0.057	17.73	0.059
1.4	16QAM	1	5	17.66	0.058	17.72	0.059	17.56	0.057
1.4	16QAM	3	0	17.62	0.058	17.72	0.059	17.75	0.060
1.4	16QAM	3	1	17.65	0.058	17.65	0.058	17.47	0.056
1.4	16QAM	3	3	17.46	0.056	17.31	0.054	17.75	0.060
1.4	16QAM	6	0	16.57	0.045	16.71	0.047	16.73	0.047



LTE Band 25				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26140		26365		26590	
Frequency (MHz)				1860		1882.5		1905	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	20.00	0.100	20.15	0.104	19.95	0.099
20	QPSK	1	49	19.80	0.095	19.99	0.100	19.66	0.092
20	QPSK	1	99	19.61	0.091	19.69	0.093	19.85	0.097
20	QPSK	50	0	18.69	0.074	18.81	0.076	18.68	0.074
20	QPSK	50	24	18.61	0.073	18.66	0.073	18.65	0.073
20	QPSK	50	50	18.65	0.073	18.78	0.076	18.59	0.072
20	QPSK	100	0	18.66	0.073	18.65	0.073	18.55	0.072
20	16QAM	1	0	18.89	0.077	18.58	0.072	18.83	0.076
20	16QAM	1	49	18.68	0.074	18.65	0.073	18.59	0.072
20	16QAM	1	99	18.85	0.077	18.55	0.072	18.56	0.072
20	16QAM	50	0	17.66	0.058	17.49	0.056	17.65	0.058
20	16QAM	50	24	17.65	0.058	17.65	0.058	17.66	0.058
20	16QAM	50	50	17.56	0.057	17.63	0.058	17.58	0.057
20	16QAM	100	0	17.66	0.058	17.46	0.056	17.59	0.057



LTE Band 25				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26115		26365		26615	
Frequency (MHz)				1857.5		1882.5		1907.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	20.06	0.101	20.08	0.102	19.98	0.100
15	QPSK	1	37	19.62	0.092	19.65	0.092	19.46	0.088
15	QPSK	1	74	19.63	0.092	19.85	0.097	19.91	0.098
15	QPSK	36	0	18.92	0.078	18.80	0.076	18.95	0.079
15	QPSK	36	20	18.58	0.072	18.58	0.072	18.76	0.075
15	QPSK	36	39	18.65	0.073	18.61	0.073	18.75	0.075
15	QPSK	75	0	18.83	0.076	18.80	0.076	18.95	0.079
15	16QAM	1	0	18.78	0.076	19.30	0.085	18.65	0.073
15	16QAM	1	37	18.49	0.071	18.88	0.077	18.53	0.071
15	16QAM	1	74	19.22	0.084	18.99	0.079	18.95	0.079
15	16QAM	36	0	17.85	0.061	17.96	0.063	17.99	0.063
15	16QAM	36	20	17.52	0.056	17.59	0.057	17.75	0.060
15	16QAM	36	39	17.61	0.058	17.56	0.057	17.66	0.058
15	16QAM	75	0	17.79	0.060	17.78	0.060	17.91	0.062



LTE Band 25				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26090		26365		26640	
Frequency (MHz)				1855		1882.5		1910	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	19.65	0.092	19.70	0.093	19.58	0.091
10	QPSK	1	25	19.55	0.090	19.65	0.092	19.75	0.094
10	QPSK	1	49	19.50	0.089	19.53	0.090	19.83	0.096
10	QPSK	25	0	18.63	0.073	18.55	0.072	18.69	0.074
10	QPSK	25	12	18.60	0.072	18.67	0.074	18.72	0.074
10	QPSK	25	25	18.53	0.071	18.65	0.073	18.85	0.077
10	QPSK	50	0	18.56	0.072	18.63	0.073	18.75	0.075
10	16QAM	1	0	19.16	0.082	19.06	0.081	18.82	0.076
10	16QAM	1	25	18.50	0.071	18.90	0.078	18.68	0.074
10	16QAM	1	49	18.78	0.076	18.75	0.075	19.37	0.086
10	16QAM	25	0	17.61	0.058	17.58	0.057	17.53	0.057
10	16QAM	25	12	17.48	0.056	17.65	0.058	17.86	0.061
10	16QAM	25	25	17.56	0.057	17.53	0.057	17.75	0.060
10	16QAM	50	0	17.57	0.057	17.69	0.059	17.86	0.061



LTE Band 25				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26065		26365		26665	
Frequency (MHz)				1852.5		1882.5		1912.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	19.99	0.100	19.88	0.097	20.09	0.102
5	QPSK	1	12	19.95	0.099	19.66	0.092	19.69	0.093
5	QPSK	1	24	19.63	0.092	19.49	0.089	19.63	0.092
5	QPSK	12	0	18.67	0.074	18.58	0.072	18.73	0.075
5	QPSK	12	7	18.66	0.073	18.68	0.074	18.76	0.075
5	QPSK	12	13	18.65	0.073	18.49	0.071	18.49	0.071
5	QPSK	25	0	18.65	0.073	18.55	0.072	18.56	0.072
5	16QAM	1	0	18.65	0.073	18.56	0.072	18.76	0.075
5	16QAM	1	12	18.66	0.073	18.51	0.071	18.75	0.075
5	16QAM	1	24	18.46	0.070	18.83	0.076	18.95	0.079
5	16QAM	12	0	17.60	0.058	17.58	0.057	17.57	0.057
5	16QAM	12	7	17.70	0.059	17.62	0.058	17.69	0.059
5	16QAM	12	13	17.65	0.058	17.69	0.059	17.78	0.060
5	16QAM	25	0	17.57	0.057	17.65	0.058	17.51	0.056



LTE Band 25				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				25935		26365		26675	
Frequency (MHz)				1851.5		1882.5		1913.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	19.88	0.097	19.95	0.099	20.07	0.102
3	QPSK	1	8	19.69	0.093	19.68	0.093	20.00	0.100
3	QPSK	1	14	19.53	0.090	19.49	0.089	19.57	0.091
3	QPSK	8	0	18.73	0.075	18.65	0.073	18.66	0.073
3	QPSK	8	4	18.67	0.074	18.68	0.074	18.68	0.074
3	QPSK	8	7	18.45	0.070	18.65	0.073	18.79	0.076
3	QPSK	15	0	18.58	0.072	18.49	0.071	18.47	0.070
3	16QAM	1	0	19.33	0.086	19.36	0.086	19.00	0.079
3	16QAM	1	8	18.48	0.070	18.67	0.074	18.68	0.074
3	16QAM	1	14	18.60	0.072	18.60	0.072	19.19	0.083
3	16QAM	8	0	17.65	0.058	17.60	0.058	17.71	0.059
3	16QAM	8	4	17.67	0.058	17.65	0.058	17.47	0.056
3	16QAM	8	7	17.76	0.060	17.65	0.058	17.28	0.053
3	16QAM	15	0	17.56	0.057	17.47	0.056	17.53	0.057



LTE Band 25				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26047		26365		26683	
Frequency (MHz)				1850.7		1882.5		1914.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	19.87	0.097	20.00	0.100	20.10	0.102
1.4	QPSK	1	3	19.65	0.092	19.68	0.093	19.65	0.092
1.4	QPSK	1	5	19.81	0.096	19.55	0.090	19.65	0.092
1.4	QPSK	3	0	19.68	0.093	19.65	0.092	19.66	0.092
1.4	QPSK	3	1	19.67	0.093	19.68	0.093	19.67	0.093
1.4	QPSK	3	3	19.78	0.095	19.78	0.095	19.75	0.094
1.4	QPSK	6	0	18.65	0.073	18.68	0.074	18.66	0.073
1.4	16QAM	1	0	18.66	0.073	18.98	0.079	18.75	0.075
1.4	16QAM	1	3	18.65	0.073	18.65	0.073	18.66	0.073
1.4	16QAM	1	5	18.70	0.074	18.98	0.079	18.87	0.077
1.4	16QAM	3	0	18.66	0.073	18.56	0.072	18.75	0.075
1.4	16QAM	3	1	18.56	0.072	18.66	0.073	18.65	0.073
1.4	16QAM	3	3	18.55	0.072	18.58	0.072	18.55	0.072
1.4	16QAM	6	0	17.53	0.057	17.65	0.058	17.48	0.056



LTE Band26				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26865		26915		26965	
Frequency (MHz)				831.5		836.5		841.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	18.32	0.068	18.39	0.069	18.30	0.068
15	QPSK	1	37	17.76	0.060	18.29	0.067	18.24	0.067
15	QPSK	1	74	17.96	0.063	17.84	0.061	17.70	0.059
15	QPSK	36	0	16.57	0.045	16.59	0.046	16.53	0.045
15	QPSK	36	20	16.35	0.043	16.17	0.041	16.29	0.043
15	QPSK	36	39	16.39	0.044	16.33	0.043	16.19	0.042
15	QPSK	75	0	16.51	0.045	16.39	0.044	16.52	0.045
15	16QAM	1	0	16.56	0.045	16.32	0.043	16.73	0.047
15	16QAM	1	37	16.23	0.042	16.16	0.041	16.30	0.043
15	16QAM	1	74	16.74	0.047	16.44	0.044	16.90	0.049
15	16QAM	36	0	15.45	0.035	15.56	0.036	15.59	0.036
15	16QAM	36	20	15.36	0.034	15.15	0.033	15.22	0.033
15	16QAM	36	39	15.29	0.034	15.21	0.033	15.29	0.034
15	16QAM	75	0	15.53	0.036	15.24	0.033	15.42	0.035



LTE Band26				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26840		26915		26990	
Frequency (MHz)				829.0		836.5		844.0	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	17.92	0.062	18.29	0.067	17.84	0.061
10	QPSK	1	25	18.21	0.066	18.02	0.063	18.32	0.068
10	QPSK	1	49	17.51	0.056	17.44	0.055	17.52	0.056
10	QPSK	25	0	16.61	0.046	16.50	0.045	16.59	0.046
10	QPSK	25	12	16.40	0.044	16.36	0.043	16.27	0.042
10	QPSK	25	25	16.36	0.043	16.31	0.043	16.31	0.043
10	QPSK	50	0	16.45	0.044	16.39	0.044	16.56	0.045
10	16QAM	1	0	16.84	0.048	16.32	0.043	16.42	0.044
10	16QAM	1	25	16.37	0.043	16.20	0.042	16.24	0.042
10	16QAM	1	49	16.49	0.045	16.37	0.043	16.74	0.047
10	16QAM	25	0	15.60	0.036	15.62	0.036	15.57	0.036
10	16QAM	25	12	15.39	0.035	15.21	0.033	15.26	0.034
10	16QAM	25	25	15.30	0.034	15.32	0.034	15.37	0.034
10	16QAM	50	0	15.38	0.035	15.41	0.035	15.47	0.035



LTE Band26				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26815		26915		27015	
Frequency (MHz)				826.5		836.5		846.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	18.34	0.068	18.21	0.066	18.31	0.068
5	QPSK	1	12	17.96	0.063	17.95	0.062	18.01	0.063
5	QPSK	1	24	17.99	0.063	18.23	0.067	17.99	0.063
5	QPSK	12	0	16.71	0.047	16.62	0.046	16.75	0.047
5	QPSK	12	7	16.32	0.043	16.35	0.043	16.37	0.043
5	QPSK	12	13	16.45	0.044	16.44	0.044	16.70	0.047
5	QPSK	25	0	16.67	0.046	16.57	0.045	16.47	0.044
5	16QAM	1	0	16.50	0.045	16.52	0.045	16.32	0.043
5	16QAM	1	12	16.60	0.046	16.61	0.046	16.85	0.048
5	16QAM	1	24	16.70	0.047	16.82	0.048	16.65	0.046
5	16QAM	12	0	15.72	0.037	15.59	0.036	15.70	0.037
5	16QAM	12	7	15.31	0.034	15.26	0.034	15.50	0.035
5	16QAM	12	13	15.42	0.035	15.32	0.034	15.39	0.035
5	16QAM	25	0	15.66	0.037	15.46	0.035	15.37	0.034



LTE Band26				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26805		26915		27025	
Frequency (MHz)				825.5		836.5		847.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	18.20	0.066	18.29	0.067	18.27	0.067
3	QPSK	1	8	18.06	0.064	17.97	0.063	18.22	0.066
3	QPSK	1	14	18.20	0.066	18.00	0.063	18.01	0.063
3	QPSK	8	0	16.69	0.047	16.65	0.046	16.71	0.047
3	QPSK	8	4	16.39	0.044	16.39	0.044	16.32	0.043
3	QPSK	8	7	16.47	0.044	16.45	0.044	16.51	0.045
3	QPSK	15	0	16.69	0.047	16.59	0.046	16.50	0.045
3	16QAM	1	0	16.59	0.046	16.70	0.047	16.62	0.046
3	16QAM	1	8	16.63	0.046	16.62	0.046	16.16	0.041
3	16QAM	1	14	16.70	0.047	16.54	0.045	16.29	0.043
3	16QAM	8	0	15.70	0.037	15.64	0.037	15.73	0.037
3	16QAM	8	4	15.34	0.034	15.27	0.034	15.43	0.035
3	16QAM	8	7	15.46	0.035	15.52	0.036	15.42	0.035
3	16QAM	15	0	15.52	0.036	15.40	0.035	15.45	0.035



LTE Band26				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26797		26915		27033	
Frequency (MHz)				824.7		836.5		848.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	18.35	0.068	18.26	0.067	18.17	0.066
1.4	QPSK	1	3	18.20	0.066	18.20	0.066	18.11	0.065
1.4	QPSK	1	5	18.20	0.066	17.95	0.062	18.10	0.065
1.4	QPSK	3	0	18.20	0.066	17.95	0.062	18.03	0.064
1.4	QPSK	3	1	18.19	0.066	17.74	0.059	18.00	0.063
1.4	QPSK	3	3	18.06	0.064	18.22	0.066	18.22	0.066
1.4	QPSK	6	0	16.63	0.046	16.59	0.046	16.69	0.047
1.4	16QAM	1	0	16.33	0.043	16.33	0.043	16.60	0.046
1.4	16QAM	1	3	16.50	0.045	16.67	0.046	16.64	0.046
1.4	16QAM	1	5	16.82	0.048	16.59	0.046	16.69	0.047
1.4	16QAM	3	0	16.42	0.044	16.45	0.044	16.29	0.043
1.4	16QAM	3	1	16.32	0.043	16.34	0.043	16.37	0.043
1.4	16QAM	3	3	16.51	0.045	16.37	0.043	16.45	0.044
1.4	16QAM	6	0	15.62	0.036	15.50	0.035	15.69	0.037



LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39750		40620		41490	
Frequency (MHz)				2506		2593		2680	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	24.38	0.274	24.39	0.275	24.36	0.273
20	QPSK	1	49	24.22	0.264	24.13	0.259	24.20	0.263
20	QPSK	1	99	23.96	0.249	23.98	0.250	24.00	0.251
20	QPSK	50	0	22.94	0.197	22.98	0.199	23.02	0.200
20	QPSK	50	24	22.74	0.188	22.80	0.191	22.77	0.189
20	QPSK	50	50	22.67	0.185	22.80	0.191	22.67	0.185
20	QPSK	100	0	22.82	0.191	22.96	0.198	22.82	0.191
20	16QAM	1	0	22.72	0.187	22.68	0.185	22.66	0.185
20	16QAM	1	49	22.58	0.181	22.76	0.189	22.66	0.185
20	16QAM	1	99	22.72	0.187	22.73	0.187	22.74	0.188
20	16QAM	50	0	21.96	0.157	21.99	0.158	21.96	0.157
20	16QAM	50	24	21.76	0.150	21.72	0.149	21.66	0.147
20	16QAM	50	50	21.70	0.148	21.72	0.149	21.81	0.152
20	16QAM	100	0	21.82	0.152	21.78	0.151	21.64	0.146



LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39725		40620		41515	
Frequency (MHz)				2503.5		2593		2682.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	23.96	0.249	24.16	0.261	24.09	0.256
15	QPSK	1	37	23.22	0.210	23.66	0.232	23.38	0.218
15	QPSK	1	74	23.82	0.241	23.72	0.236	23.61	0.230
15	QPSK	36	0	23.00	0.200	22.96	0.198	22.93	0.196
15	QPSK	36	20	22.72	0.187	22.80	0.191	22.68	0.185
15	QPSK	36	39	22.62	0.183	22.86	0.193	22.66	0.185
15	QPSK	75	0	22.89	0.195	22.81	0.191	22.86	0.193
15	16QAM	1	0	22.62	0.183	22.74	0.188	22.86	0.193
15	16QAM	1	37	22.79	0.190	22.67	0.185	22.94	0.197
15	16QAM	1	74	22.77	0.189	22.99	0.199	22.94	0.197
15	16QAM	36	0	21.86	0.153	21.95	0.157	21.93	0.156
15	16QAM	36	20	21.70	0.148	21.79	0.151	21.68	0.147
15	16QAM	36	39	21.70	0.148	21.76	0.150	21.57	0.144
15	16QAM	75	0	21.80	0.151	21.91	0.155	21.81	0.152



LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39700		40620		41540	
Frequency (MHz)				2550		2593		2685	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	23.73	0.236	23.88	0.244	23.87	0.244
10	QPSK	1	25	23.32	0.215	23.53	0.225	23.57	0.228
10	QPSK	1	49	23.46	0.222	23.69	0.234	23.66	0.232
10	QPSK	25	0	22.74	0.188	22.86	0.193	22.87	0.194
10	QPSK	25	12	22.76	0.189	22.84	0.192	22.87	0.194
10	QPSK	25	25	22.71	0.187	22.66	0.185	22.86	0.193
10	QPSK	50	0	22.86	0.193	22.76	0.189	22.86	0.193
10	16QAM	1	0	23.23	0.210	23.16	0.207	23.16	0.207
10	16QAM	1	25	22.73	0.187	22.82	0.191	22.86	0.193
10	16QAM	1	49	22.94	0.197	22.96	0.198	22.93	0.196
10	16QAM	25	0	21.77	0.150	21.91	0.155	21.94	0.156
10	16QAM	25	12	21.80	0.151	21.81	0.152	21.93	0.156
10	16QAM	25	25	21.63	0.146	21.83	0.152	21.73	0.149
10	16QAM	50	0	21.80	0.151	21.92	0.156	21.93	0.156



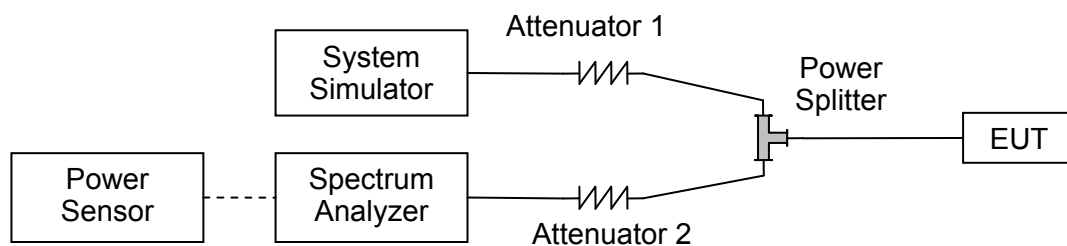
LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39675		40620		41565	
Frequency (MHz)				2498.5		2593		2687.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	19.13	0.082	19.22	0.084	19.11	0.081
5	QPSK	1	12	18.92	0.078	19.03	0.080	19.15	0.082
5	QPSK	1	24	18.86	0.077	19.09	0.081	19.16	0.082
5	QPSK	12	0	18.04	0.064	18.25	0.067	18.35	0.068
5	QPSK	12	7	18.12	0.065	18.24	0.067	18.33	0.068
5	QPSK	12	13	18.17	0.066	18.07	0.064	18.11	0.065
5	QPSK	25	0	18.08	0.064	18.11	0.065	18.15	0.065
5	16QAM	1	0	18.37	0.069	18.43	0.070	18.46	0.070
5	16QAM	1	12	18.17	0.066	18.27	0.067	18.30	0.068
5	16QAM	1	24	18.25	0.067	18.36	0.069	18.35	0.068
5	16QAM	12	0	17.07	0.051	17.29	0.054	17.18	0.052
5	16QAM	12	7	17.07	0.051	17.37	0.055	17.38	0.055
5	16QAM	12	13	17.19	0.052	17.19	0.052	17.31	0.054
5	16QAM	25	0	17.13	0.052	17.25	0.053	17.37	0.055

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 EUT is 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 50 Ohm; 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



LTE Band 2				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.23
	Low	16QAM	1.10	1.24
	Mid	QPSK	1.10	1.27
	Mid	16QAM	1.10	1.27
	High	QPSK	1.09	1.24
	High	16QAM	1.10	1.23
3	Low	QPSK	2.70	3.02
	Low	16QAM	2.71	3.01
	Mid	QPSK	2.71	3.04
	Mid	16QAM	2.71	3.00
	High	QPSK	2.70	3.02
	High	16QAM	2.70	3.01
5	Low	QPSK	4.50	4.98
	Low	16QAM	4.50	4.97
	Mid	QPSK	4.52	5.08
	Mid	16QAM	4.52	5.02
	High	QPSK	4.51	5.01
	High	16QAM	4.51	4.97
10	Low	QPSK	9.00	9.73
	Low	16QAM	8.97	9.74
	Mid	QPSK	8.98	10.02
	Mid	16QAM	8.94	9.82
	High	QPSK	8.95	9.72
	High	16QAM	8.91	9.71
15	Low	QPSK	13.54	14.79
	Low	16QAM	13.51	14.73
	Mid	QPSK	13.45	14.68
	Mid	16QAM	13.46	14.75
	High	QPSK	13.43	14.58
	High	16QAM	13.43	14.54
20	Low	QPSK	17.99	19.58
	Low	16QAM	18.02	19.69
	Mid	QPSK	17.94	19.60
	Mid	16QAM	17.95	19.59
	High	QPSK	17.89	19.43
	High	16QAM	17.89	19.49



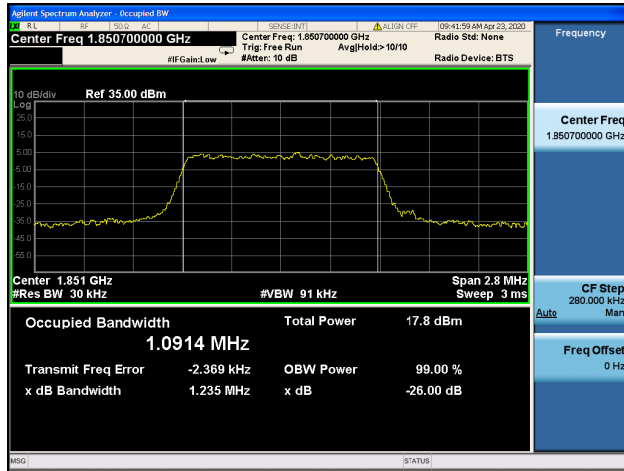
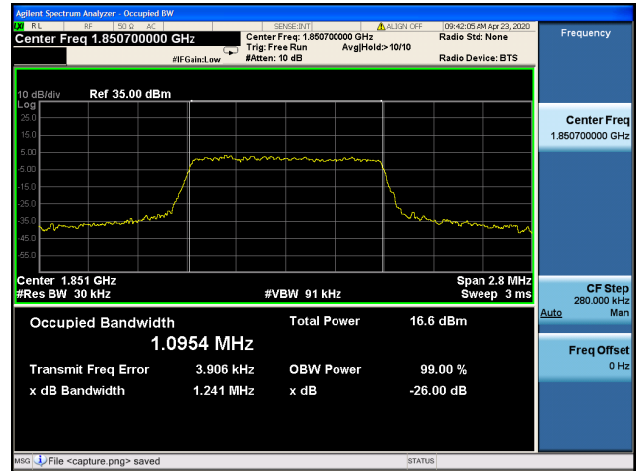
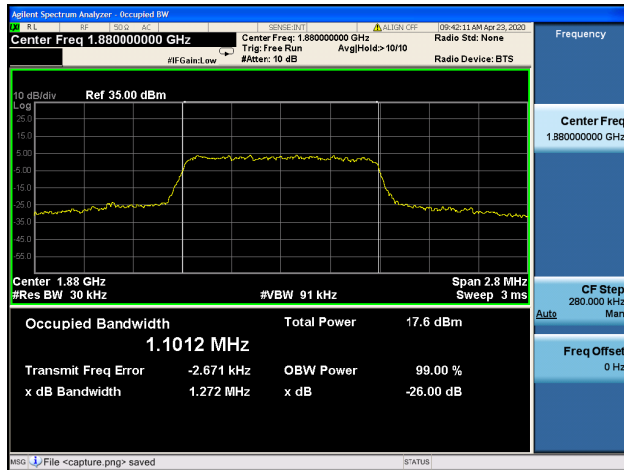
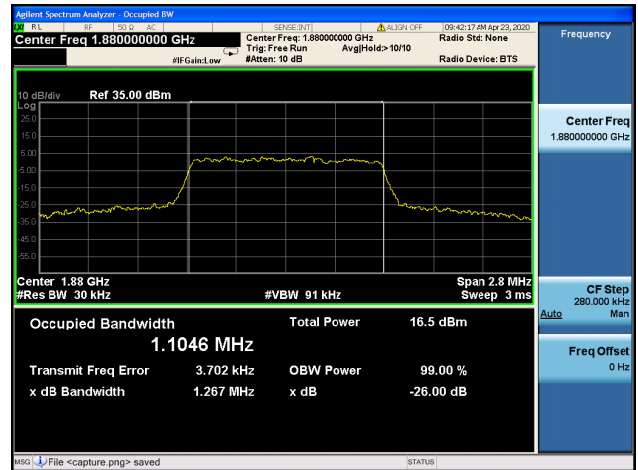
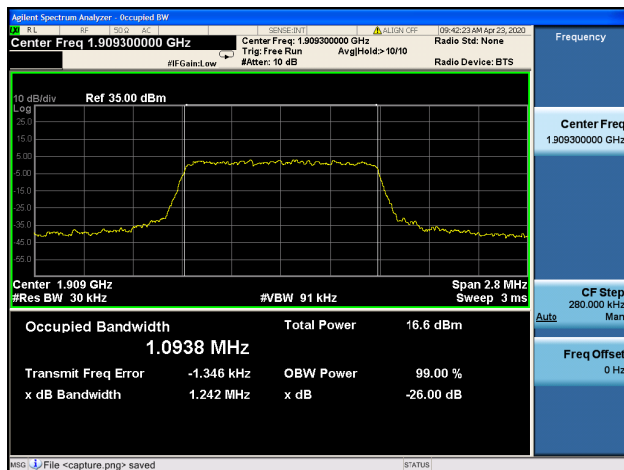
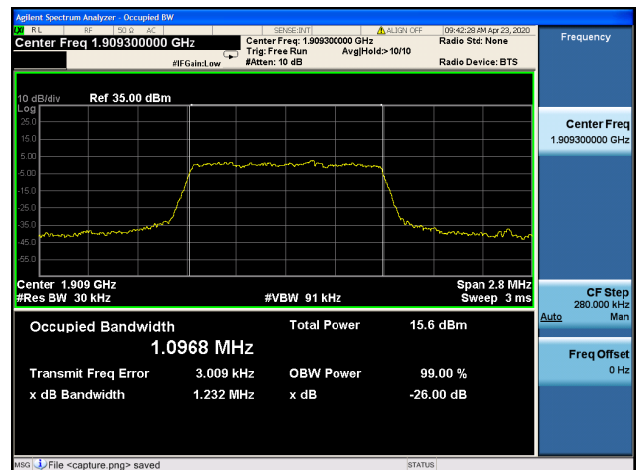
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BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.24
	Low	16QAM	1.09	1.26
	Mid	QPSK	1.09	1.24
	Mid	16QAM	1.10	1.24
	High	QPSK	1.10	1.56
	High	16QAM	1.11	1.25
3	Low	QPSK	2.70	2.98
	Low	16QAM	2.70	3.00
	Mid	QPSK	2.71	3.00
	Mid	16QAM	2.70	3.02
	High	QPSK	2.71	2.99
	High	16QAM	2.71	3.06
5	Low	QPSK	4.51	4.98
	Low	16QAM	4.49	4.95
	Mid	QPSK	4.51	4.98
	Mid	16QAM	4.50	4.98
	High	QPSK	4.51	4.99
	High	16QAM	4.51	4.99
10	Low	QPSK	8.99	9.79
	Low	16QAM	8.96	9.75
	Mid	QPSK	9.01	9.71
	Mid	16QAM	8.95	9.78
	High	QPSK	9.01	9.82
	High	16QAM	8.98	9.75
15	Low	QPSK	13.50	14.65
	Low	16QAM	13.50	14.67
	Mid	QPSK	13.45	14.63
	Mid	16QAM	13.47	14.65
	High	QPSK	13.51	14.66
	High	16QAM	13.48	14.76
20	Low	QPSK	17.96	19.54
	Low	16QAM	17.99	19.53
	Mid	QPSK	17.95	19.34
	Mid	16QAM	17.93	19.52
	High	QPSK	17.91	19.48
	High	16QAM	17.97	19.48

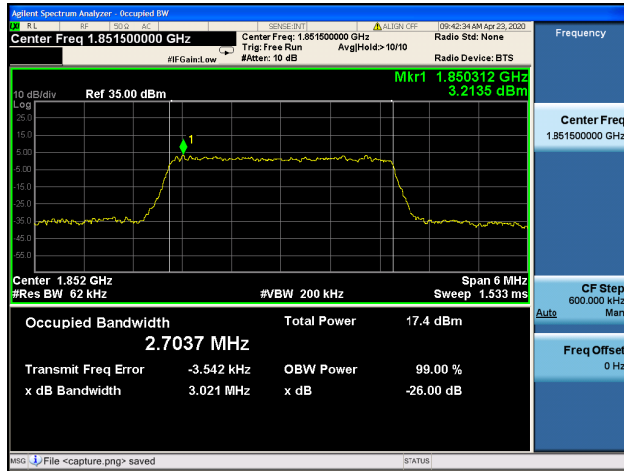
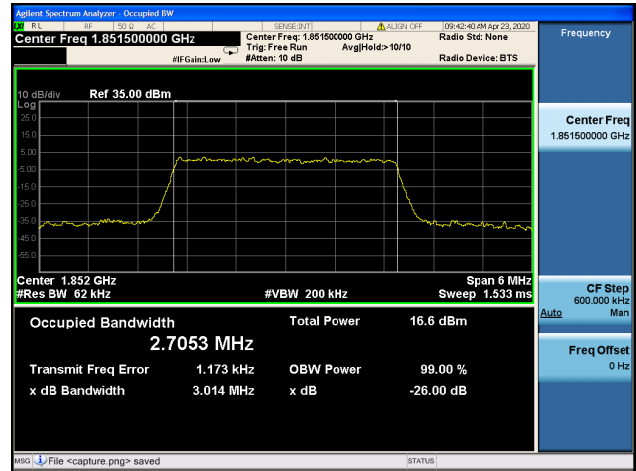
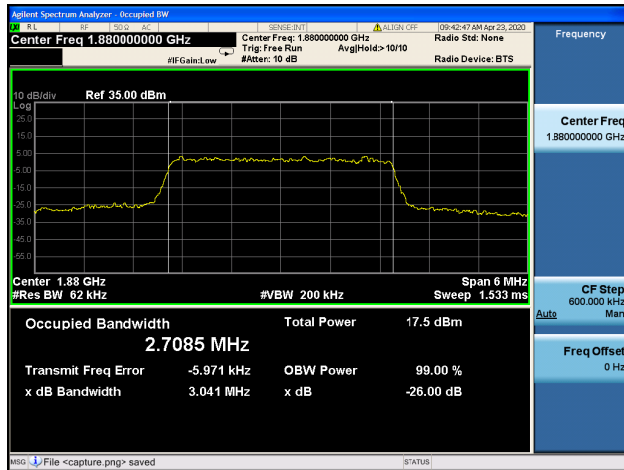
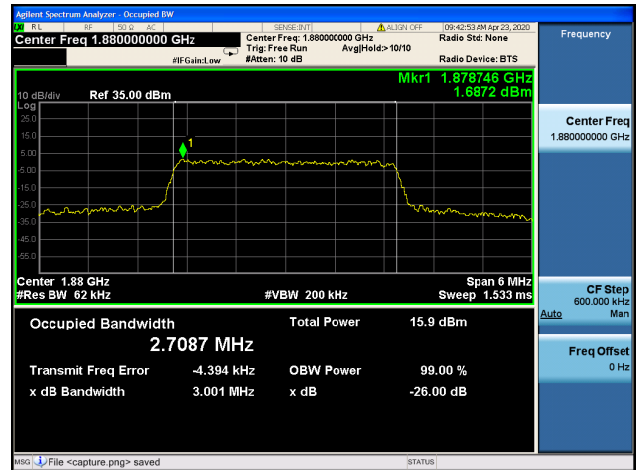
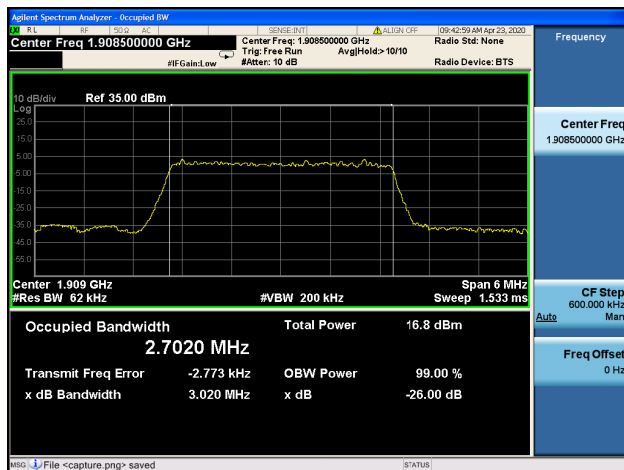
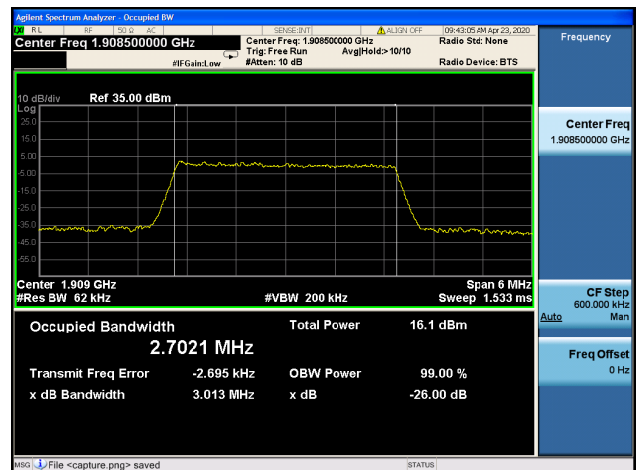


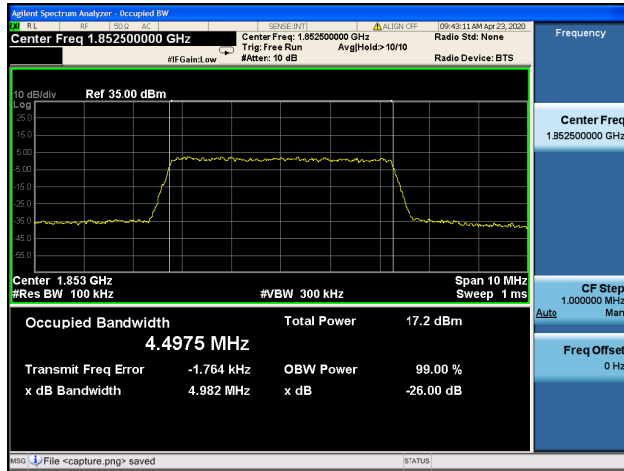
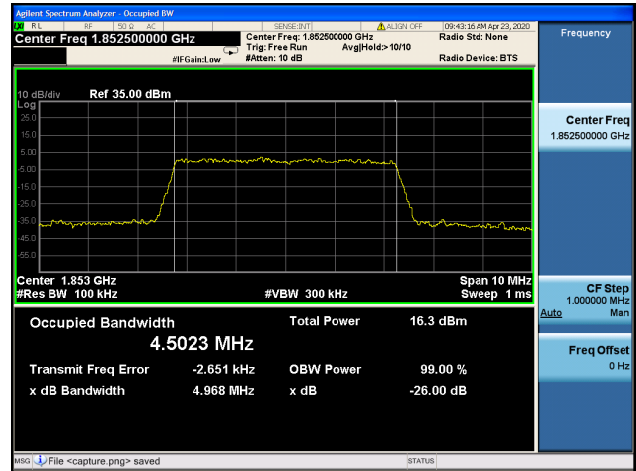
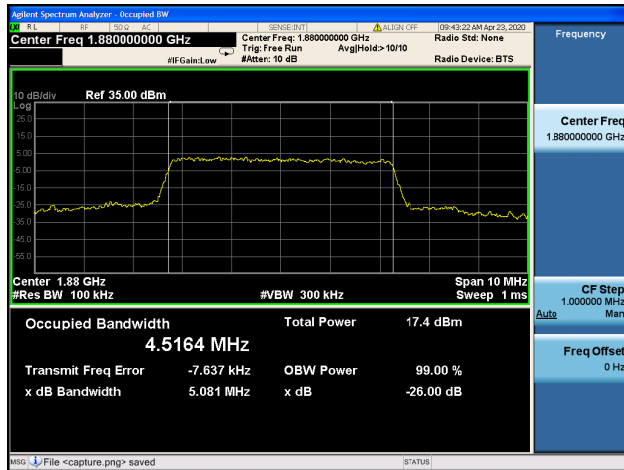
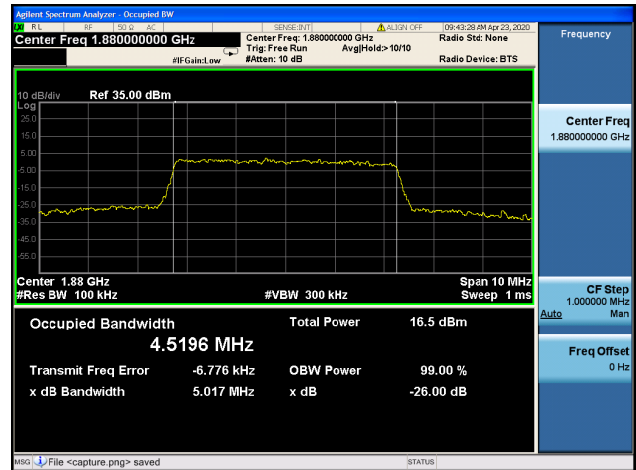
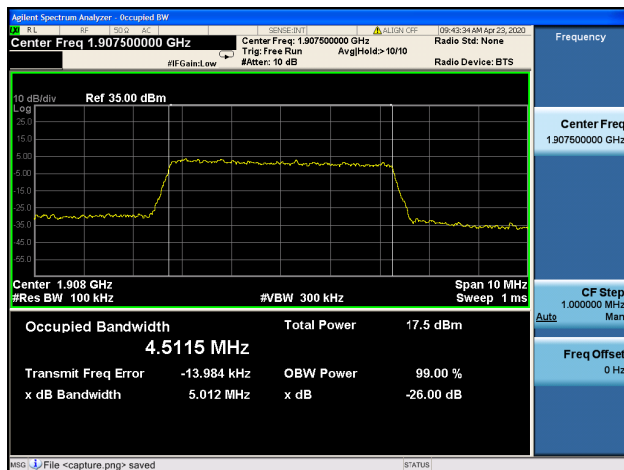
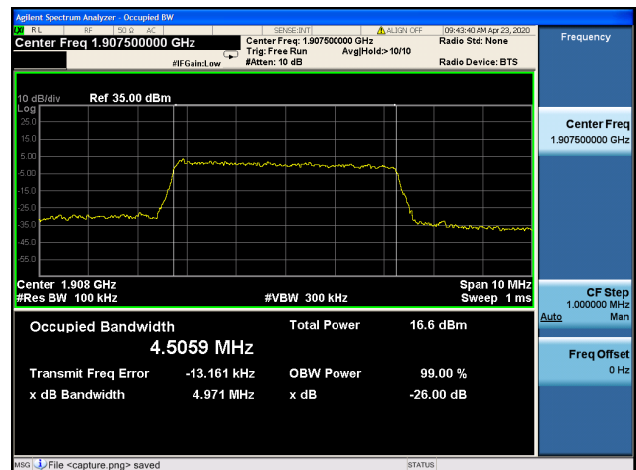
LTE Band26				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.14	1.32
	Low	16QAM	1.15	1.30
	Mid	QPSK	1.14	1.31
	Mid	16QAM	1.16	1.32
	High	QPSK	1.15	1.13
	High	16QAM	1.15	1.32
3	Low	QPSK	2.70	2.93
	Low	16QAM	2.71	2.93
	Mid	QPSK	2.72	2.98
	Mid	16QAM	2.72	2.95
	High	QPSK	2.73	2.95
	High	16QAM	2.71	2.94
5	Low	QPSK	4.46	4.67
	Low	16QAM	4.45	4.70
	Mid	QPSK	4.45	4.71
	Mid	16QAM	4.46	4.75
	High	QPSK	4.46	4.75
	High	16QAM	4.45	4.71
10	Low	QPSK	8.89	9.25
	Low	16QAM	8.91	9.25
	Mid	QPSK	8.91	9.26
	Mid	16QAM	8.91	9.20
	High	QPSK	8.89	9.20
	High	16QAM	8.91	9.21
15	Low	QPSK	13.36	13.94
	Low	16QAM	13.38	13.68
	Mid	QPSK	13.39	13.95
	Mid	16QAM	13.37	13.93
	High	QPSK	13.34	14.07
	High	16QAM	13.33	13.88

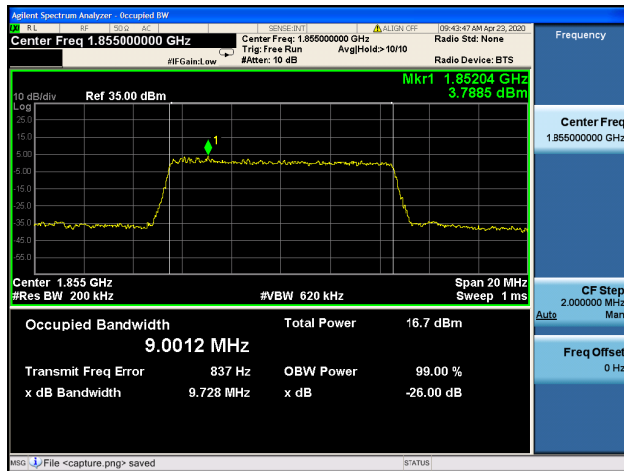
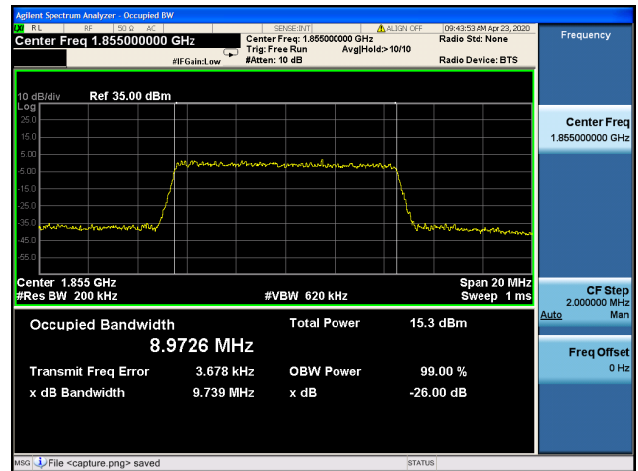
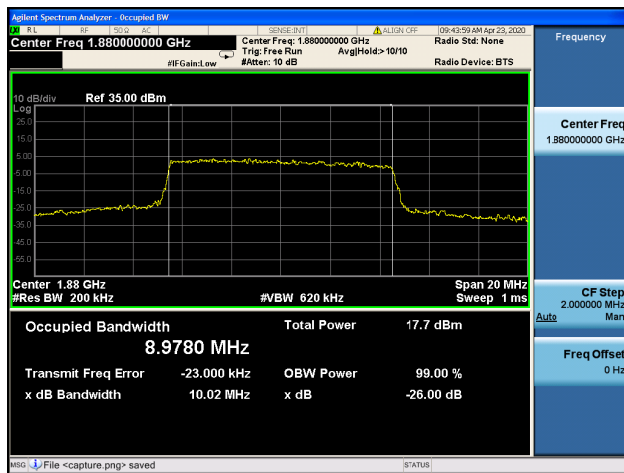
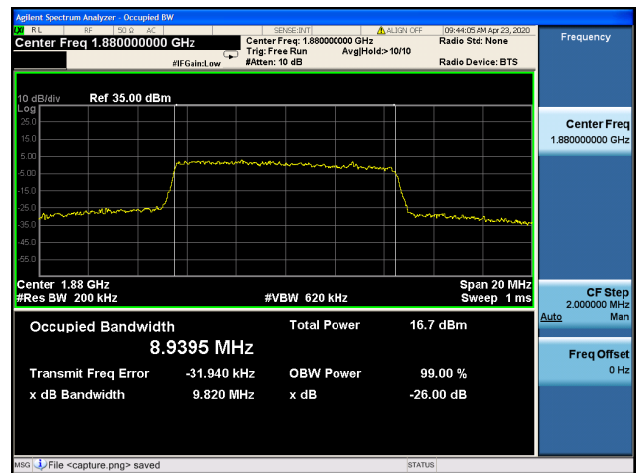
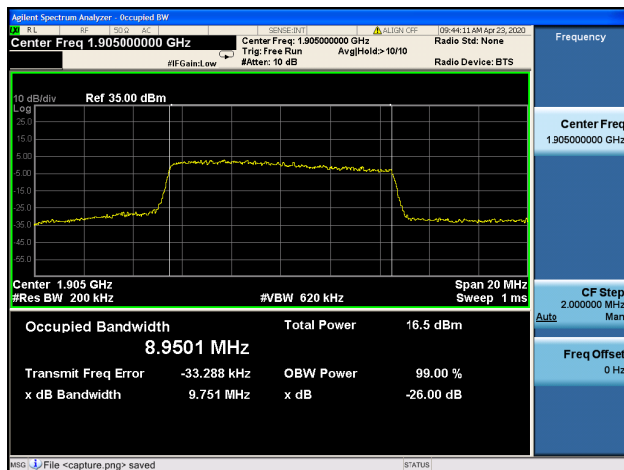
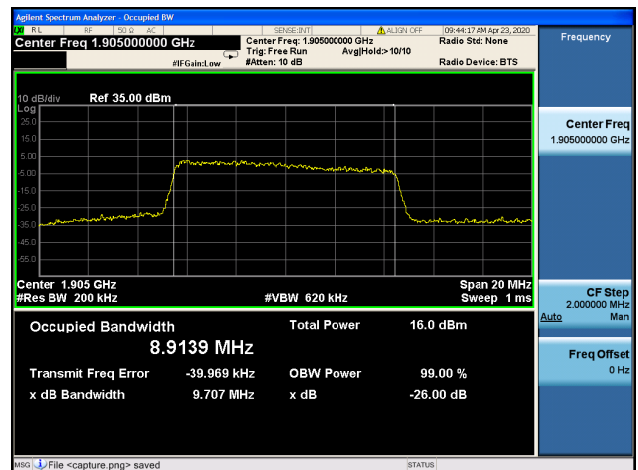


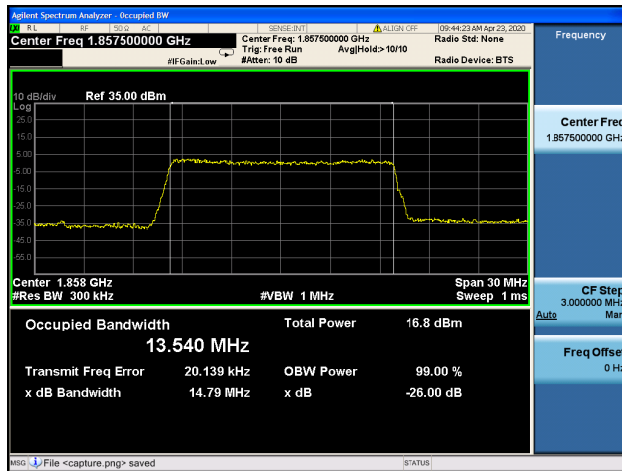
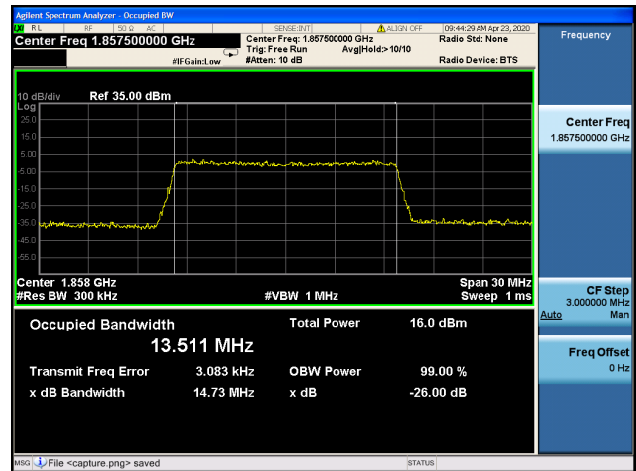
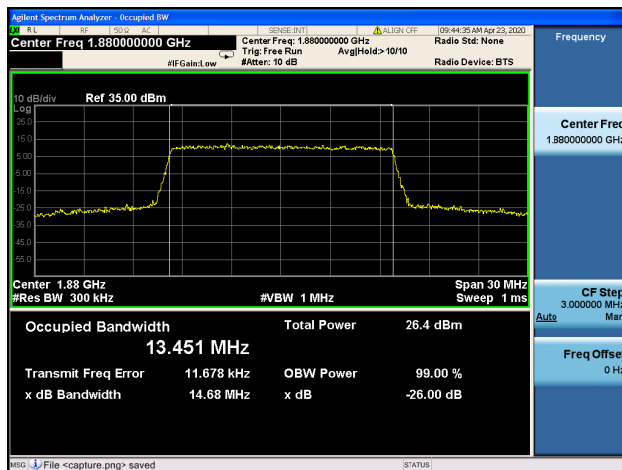
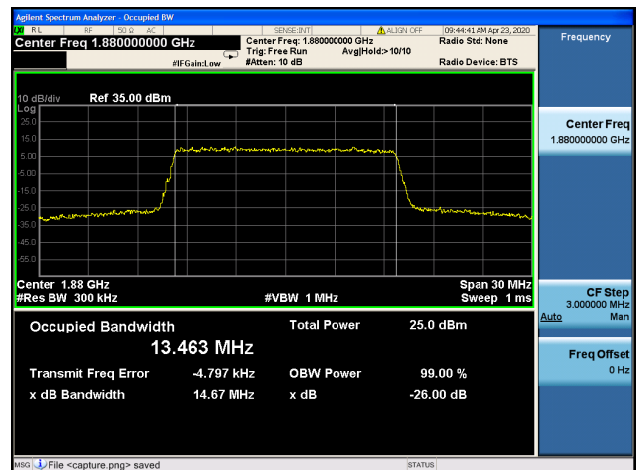
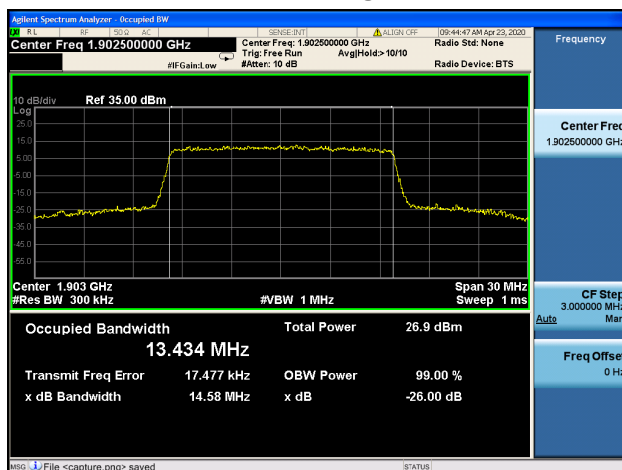
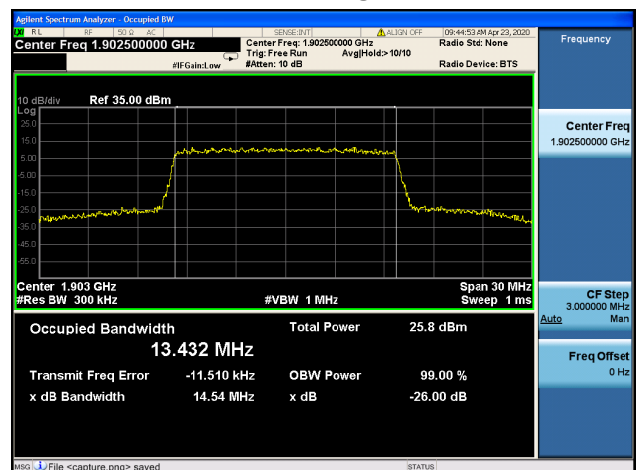
LTE Band41				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.45	5.04
	Low	16QAM	4.50	5.13
	Mid	QPSK	4.51	5.19
	Mid	16QAM	4.50	4.98
	High	QPSK	4.51	5.40
	High	16QAM	4.51	5.07
10	Low	QPSK	9.00	9.78
	Low	16QAM	8.98	10.40
	Mid	QPSK	8.98	9.75
	Mid	16QAM	8.97	10.19
	High	QPSK	8.98	9.79
	High	16QAM	8.97	10.31
15	Low	QPSK	13.50	14.70
	Low	16QAM	13.47	14.78
	Mid	QPSK	13.47	14.65
	Mid	16QAM	13.48	14.78
	High	QPSK	13.46	14.65
	High	16QAM	13.49	14.61
20	Low	QPSK	17.97	19.66
	Low	16QAM	17.96	19.56
	Mid	QPSK	18.00	20.17
	Mid	16QAM	17.94	19.78
	High	QPSK	17.98	19.79
	High	16QAM	17.96	20.53

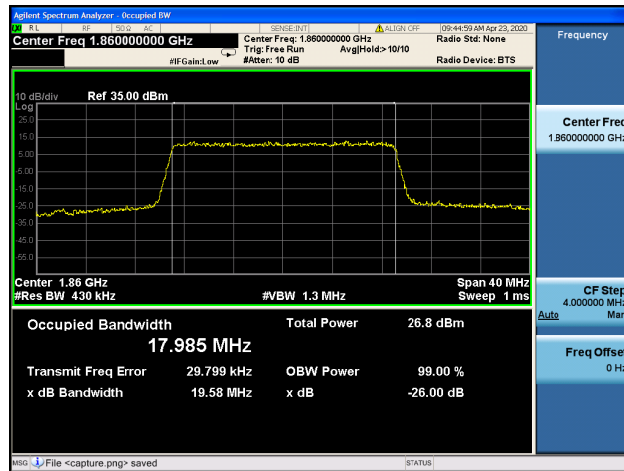
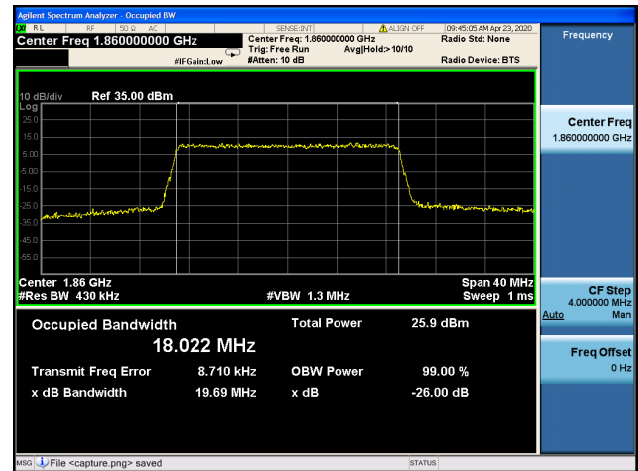
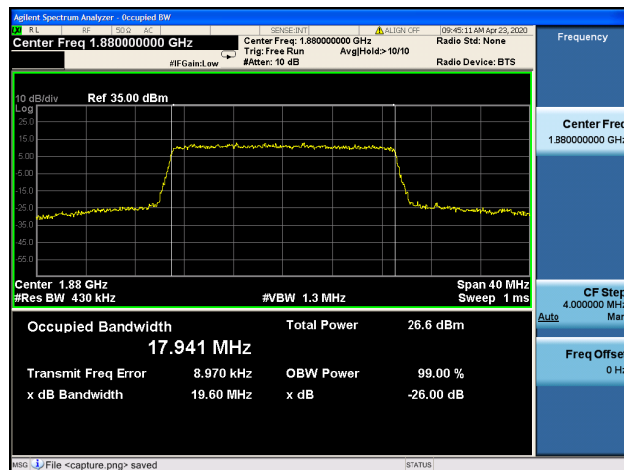
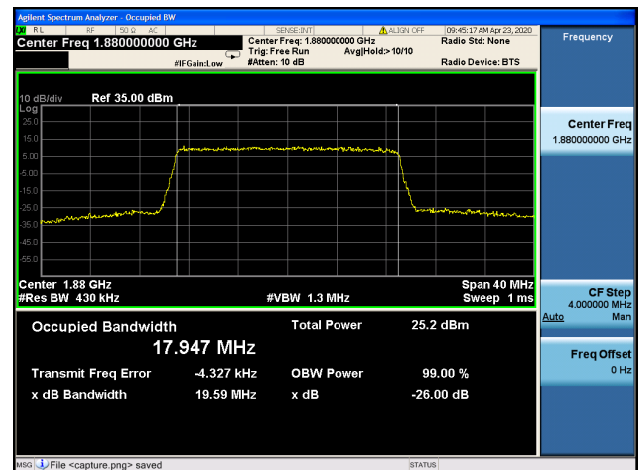
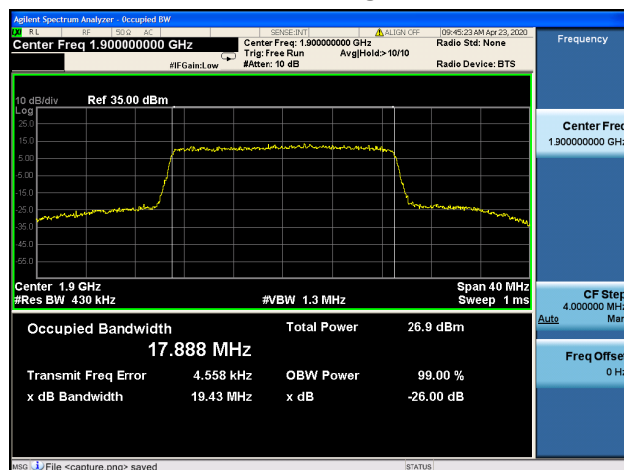
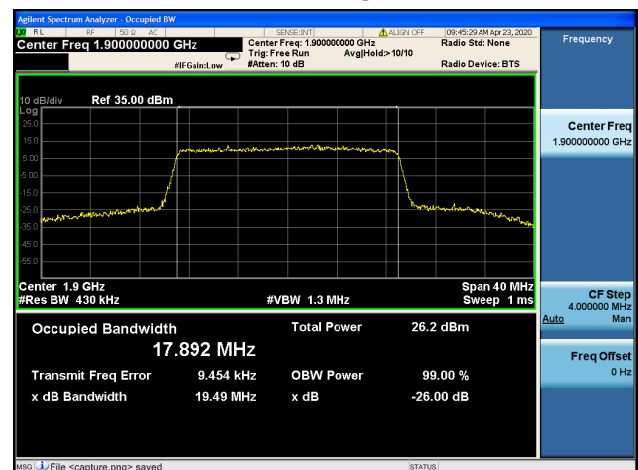
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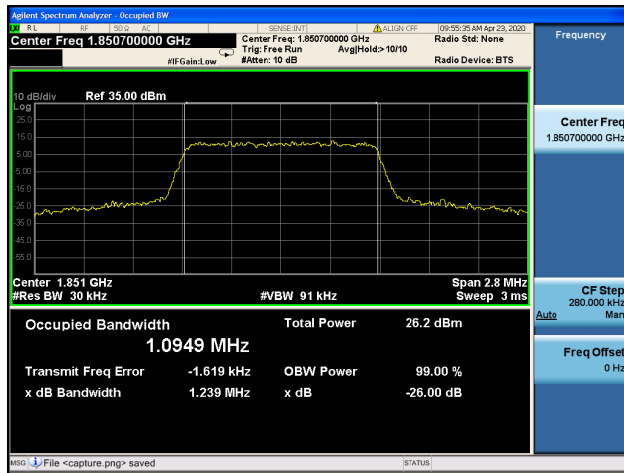
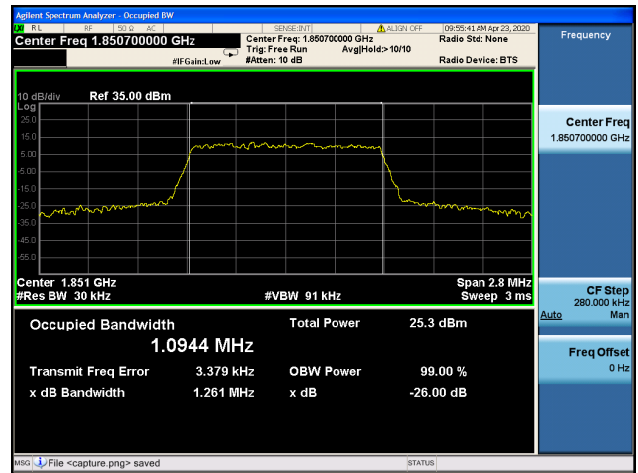
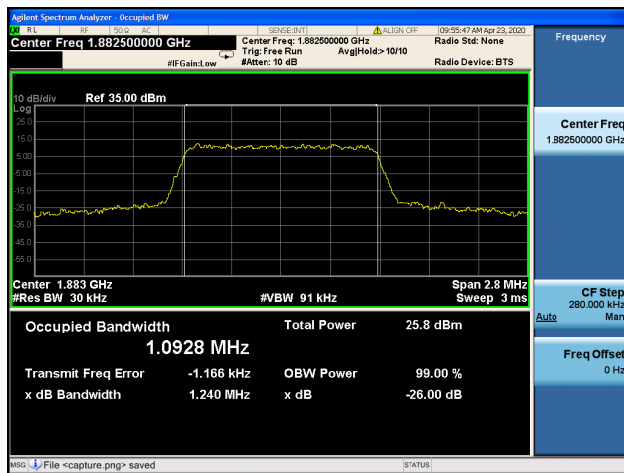
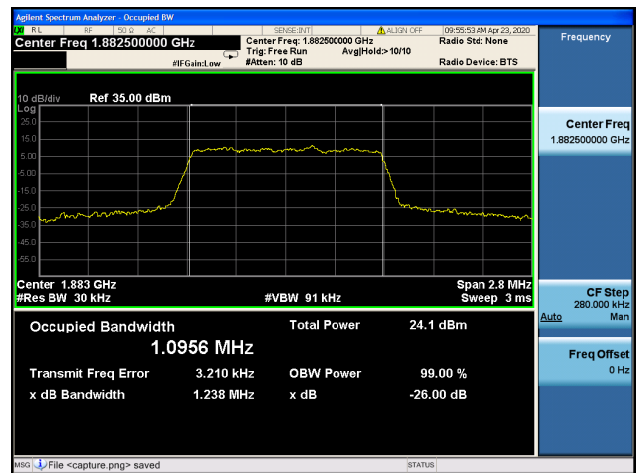
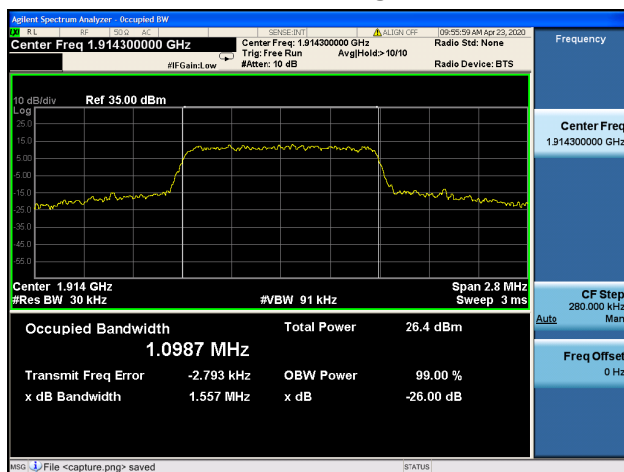
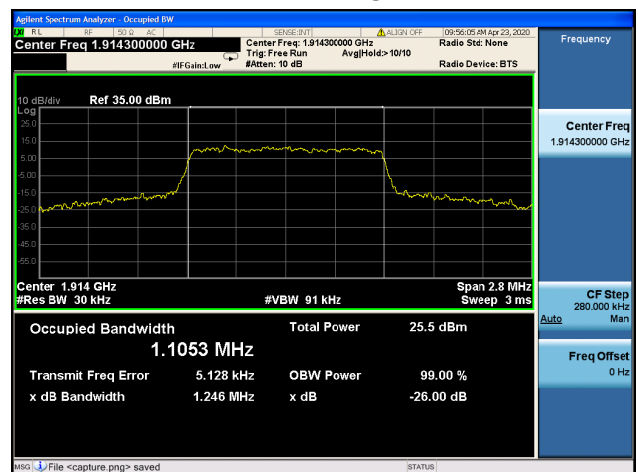
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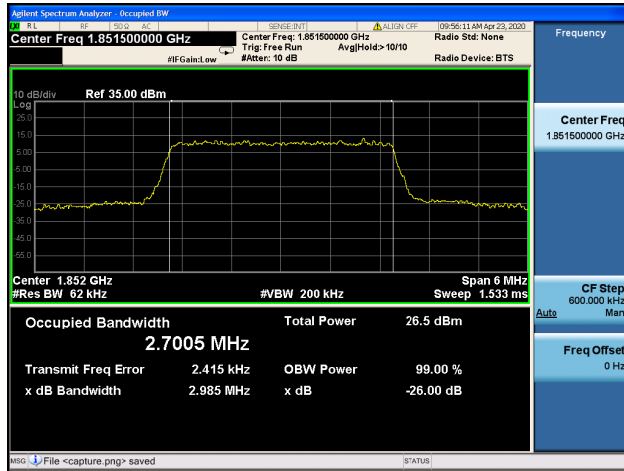
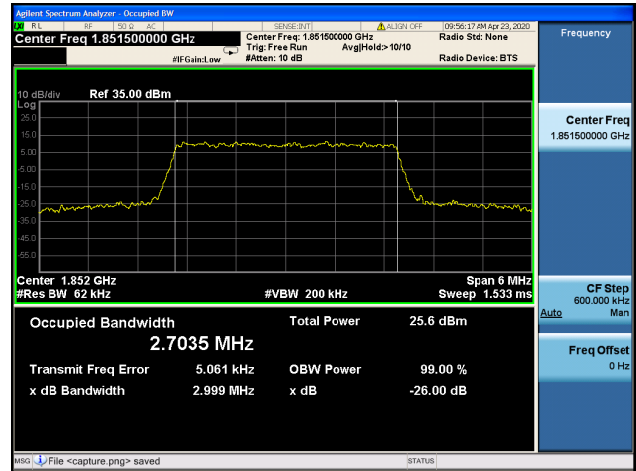
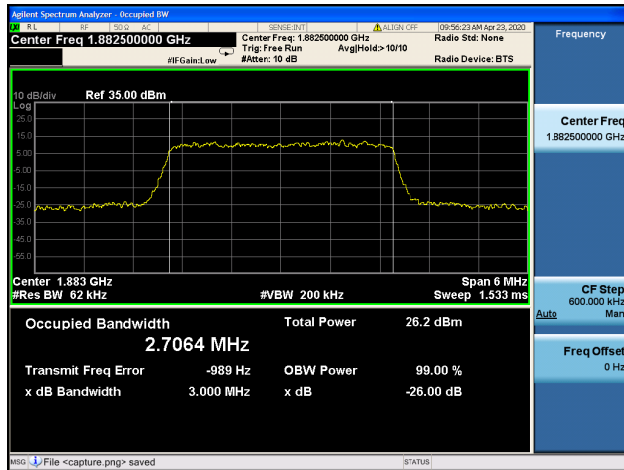
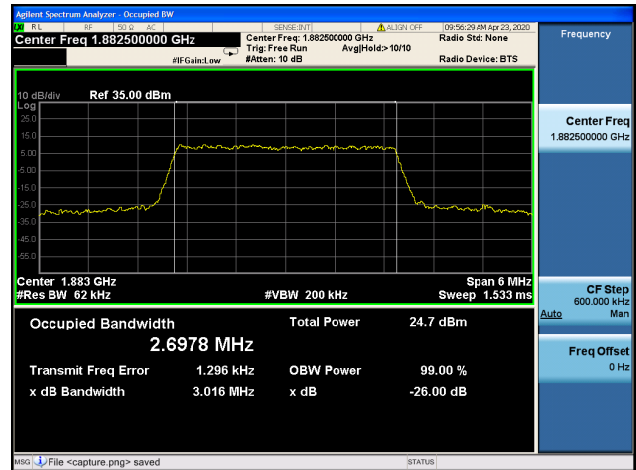
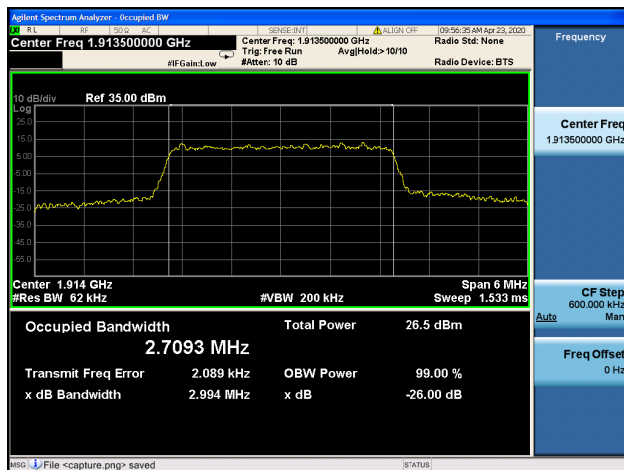
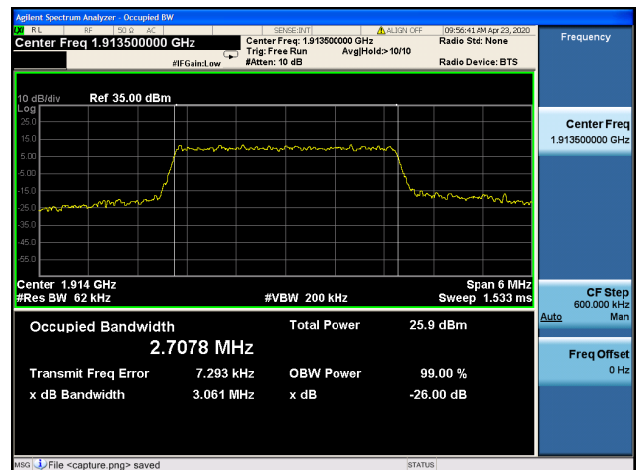
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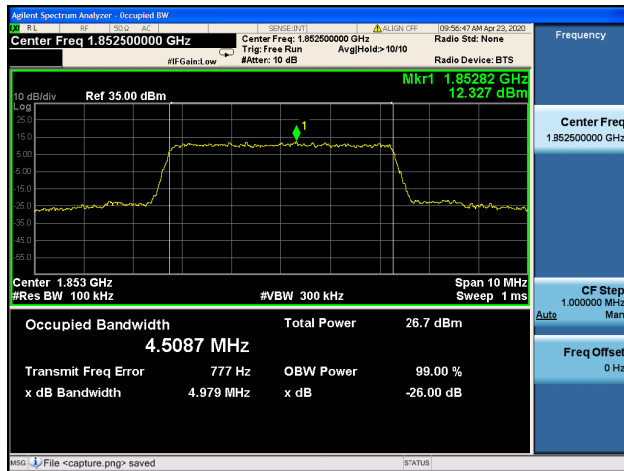
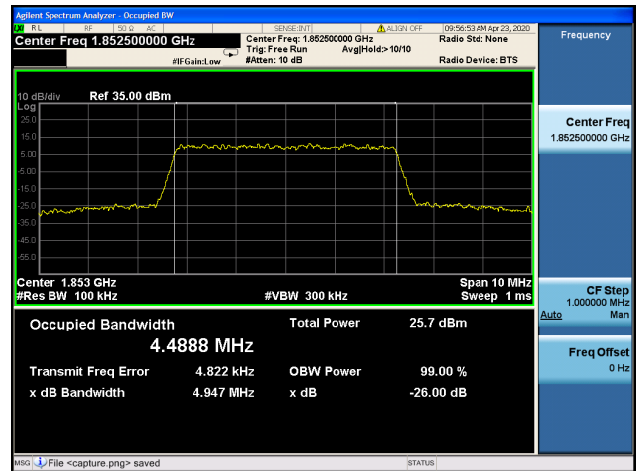
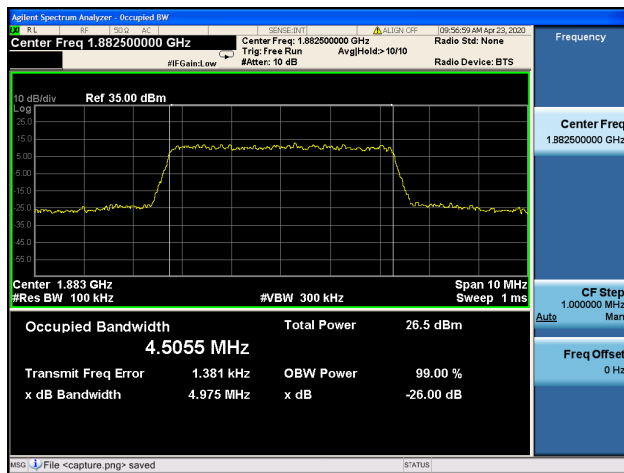
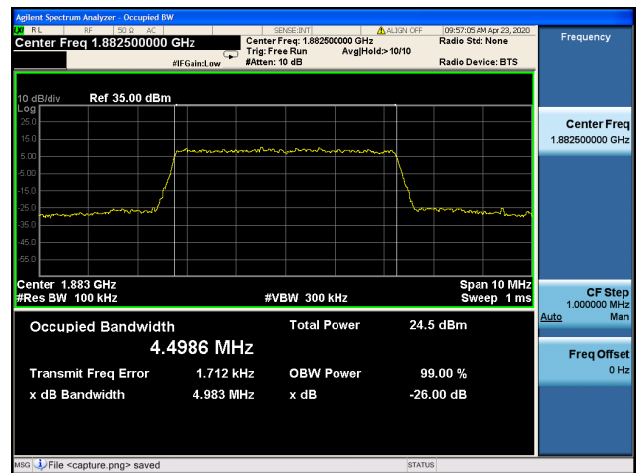
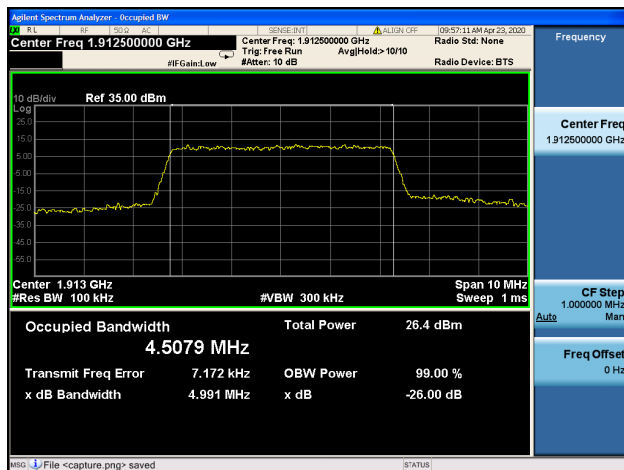
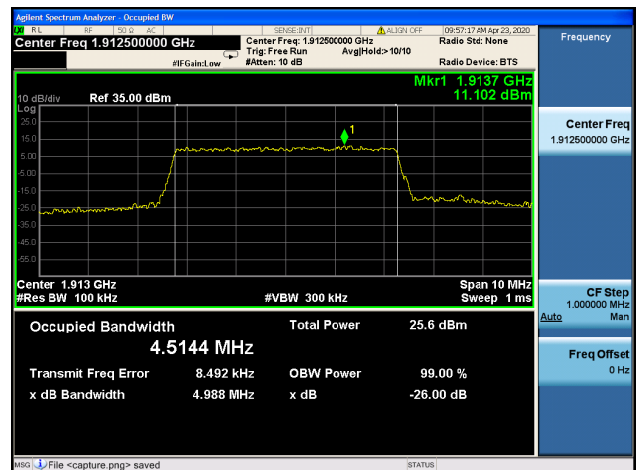
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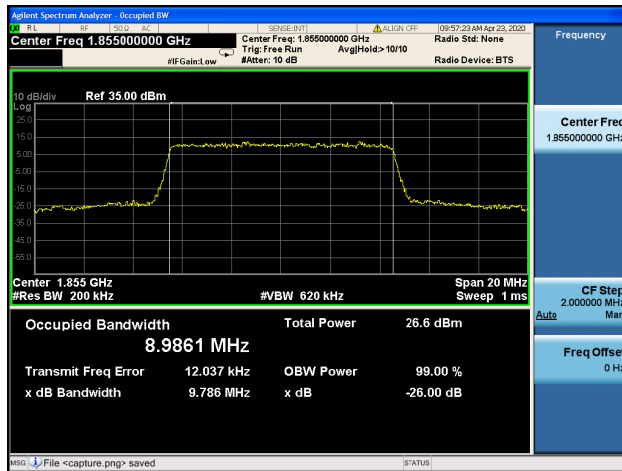
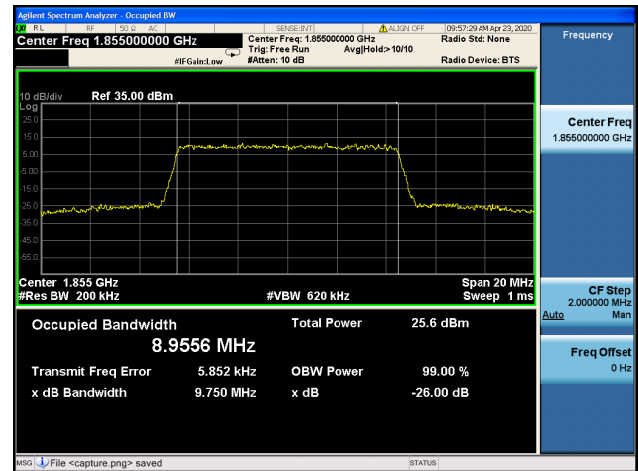
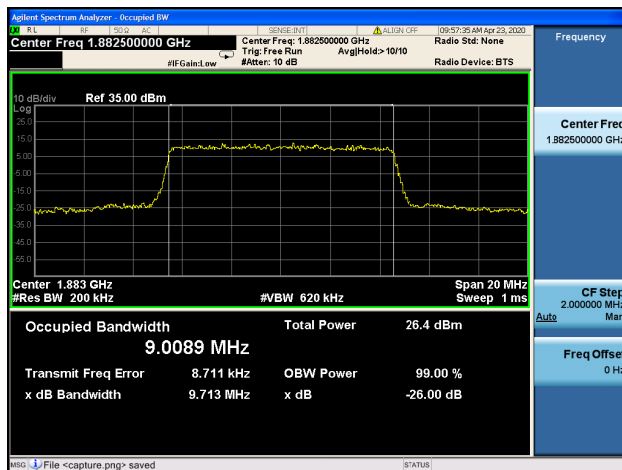
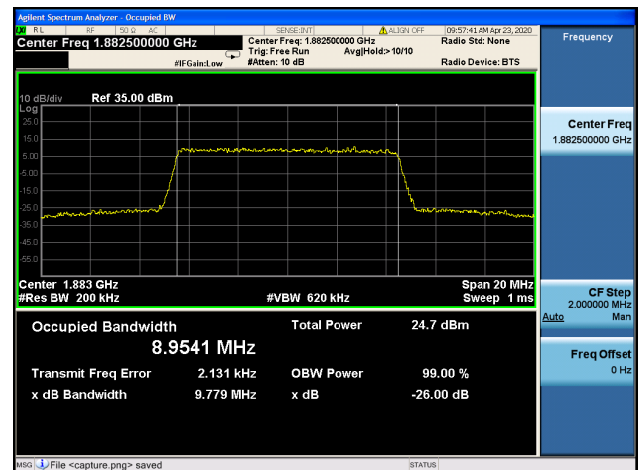
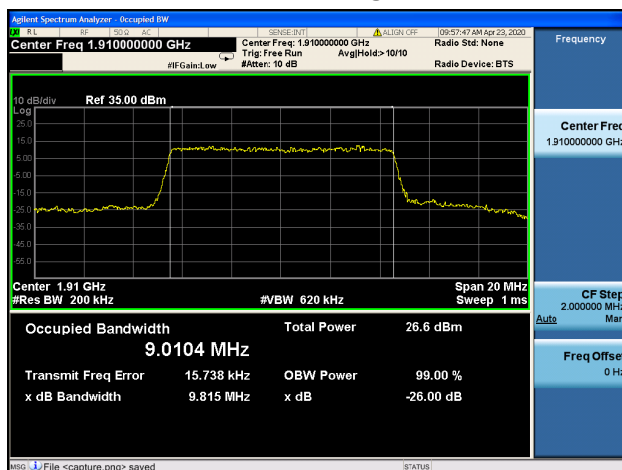
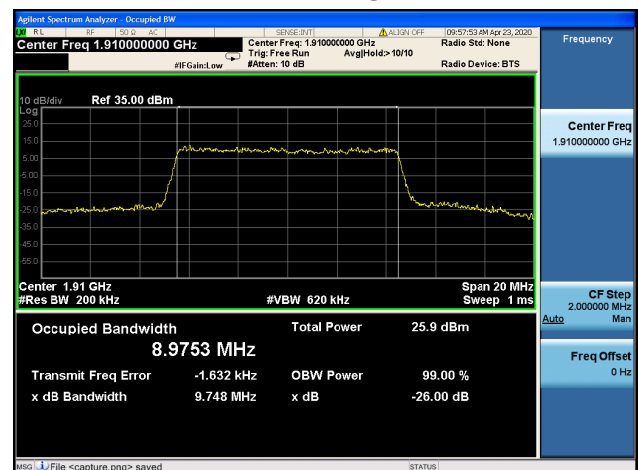
**Band2 / 15MHz / Low CH / QPSK****Band2 / 15MHz / Low CH / 16QAM****Band2 / 15MHz / Mid CH / QPSK****Band2 / 15MHz / Mid CH / 16QAM****Band2 / 15MHz / High CH / QPSK****Band2 / 15MHz / High CH / 16QAM**

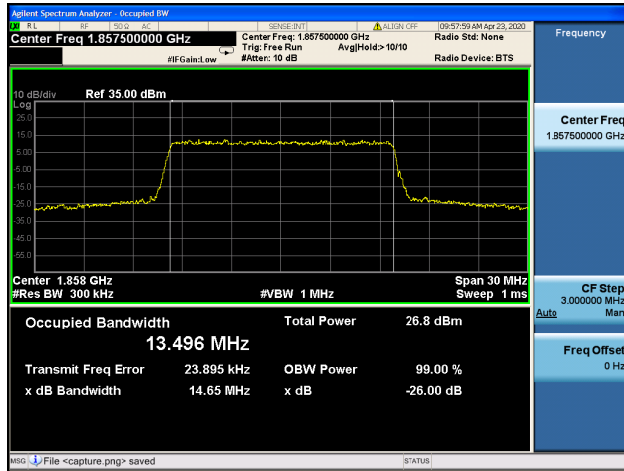
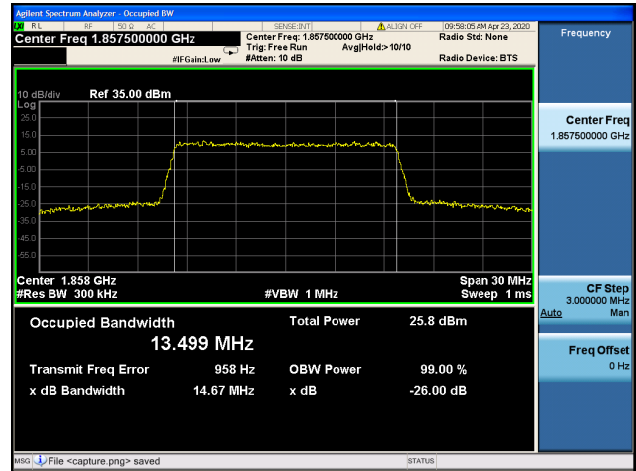
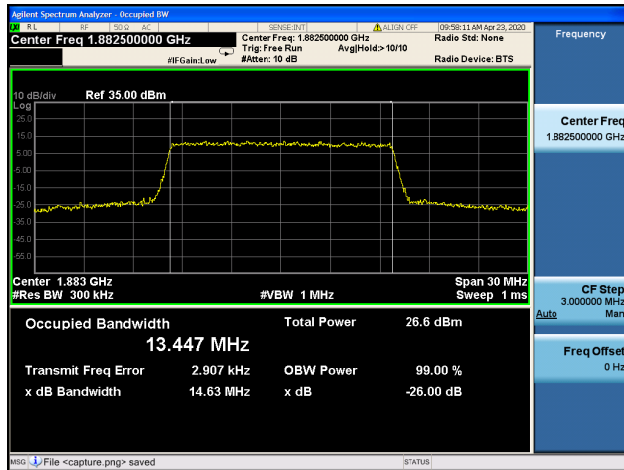
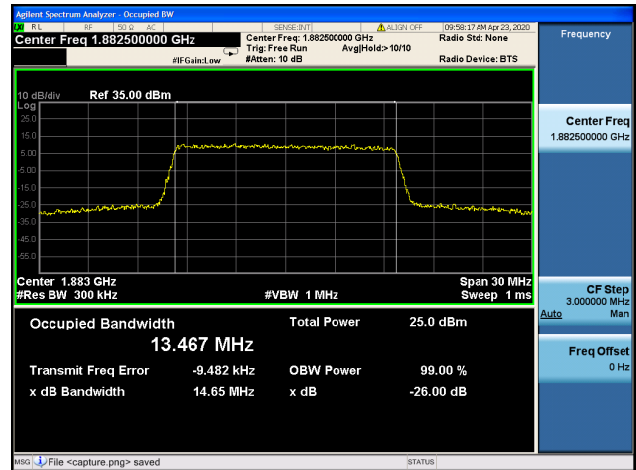
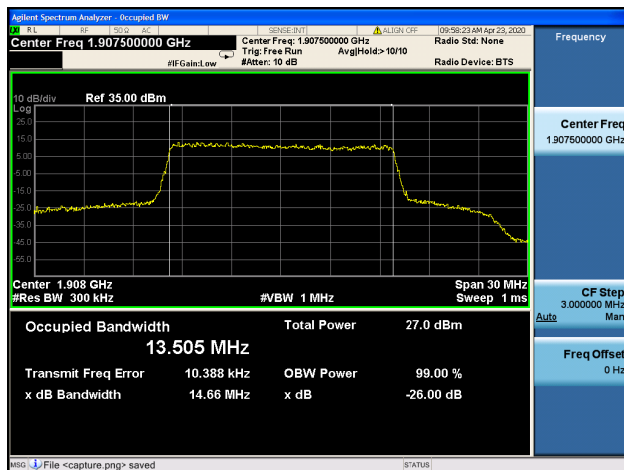
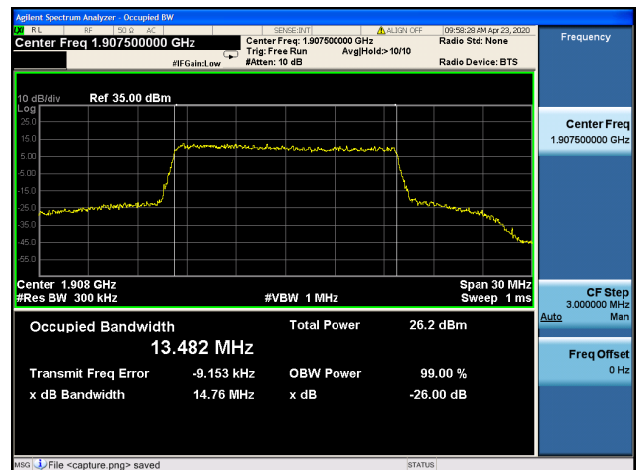
**Band2 / 20MHz / Low CH / QPSK****Band2 / 20MHz / Low CH / 16QAM****Band2 / 20MHz / Mid CH / QPSK****Band2 / 20MHz / Mid CH / 16QAM****Band2 / 20MHz / High CH / QPSK****Band2 / 20MHz / High CH / 16QAM**

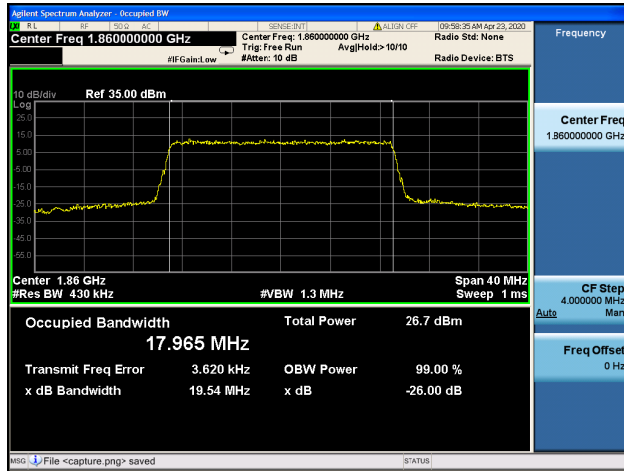
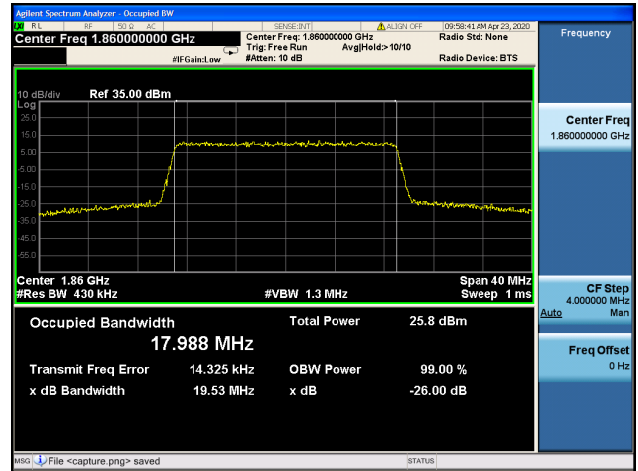
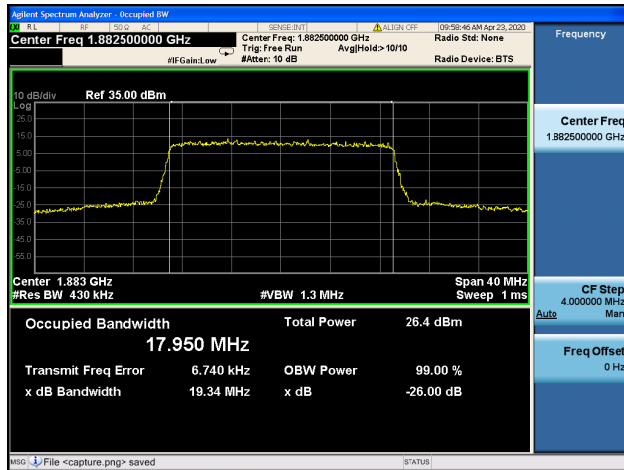
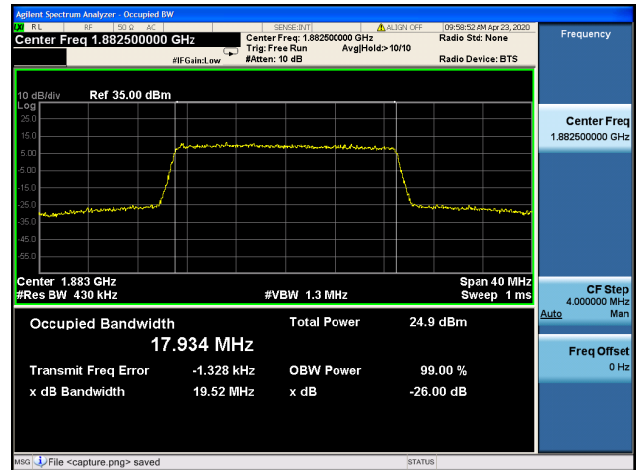
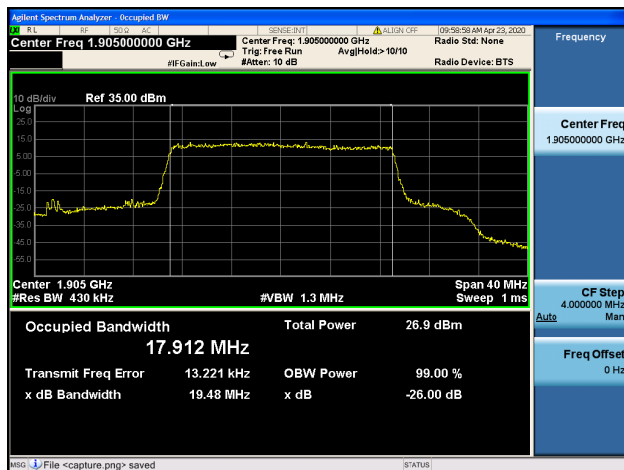
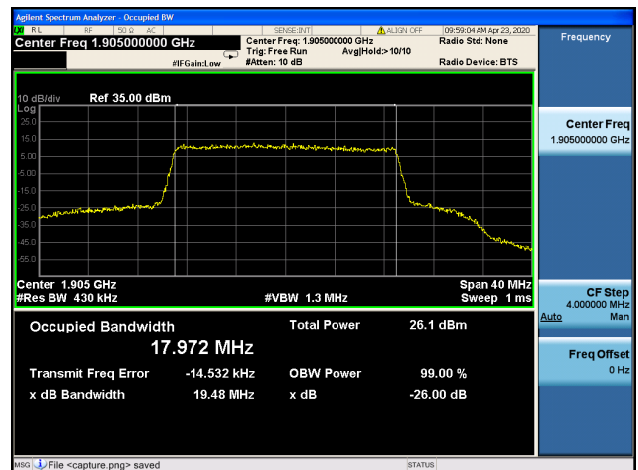
**Band25 / 1.4MHz / Low CH / QPSK****Band25 / 1.4MHz / Low CH / 16QAM****Band25 / 1.4MHz / Mid CH / QPSK****Band25 / 1.4MHz / Mid CH / 16QAM****Band25 / 1.4MHz / High CH / QPSK****Band25 / 1.4MHz / High CH / 16QAM**

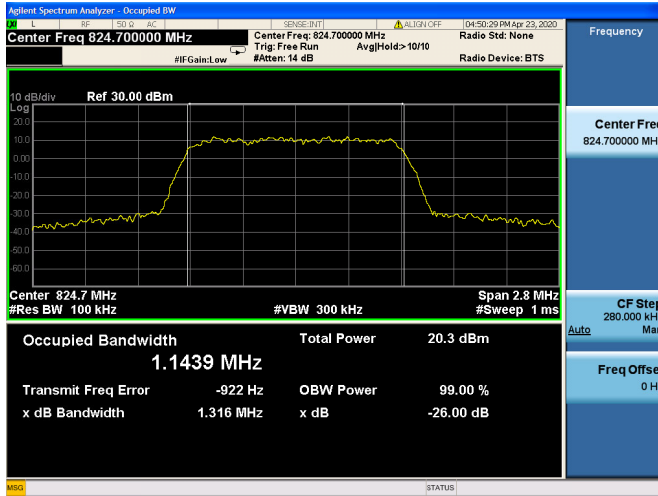
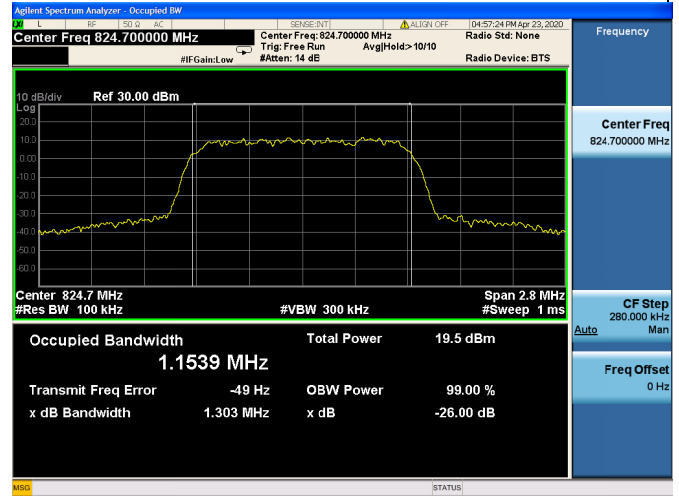
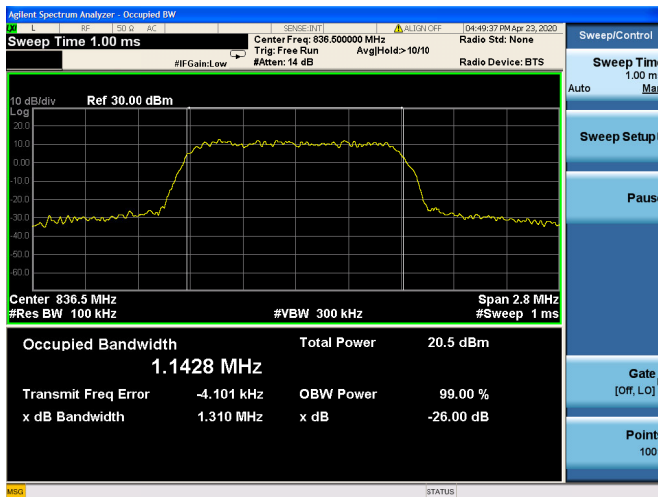
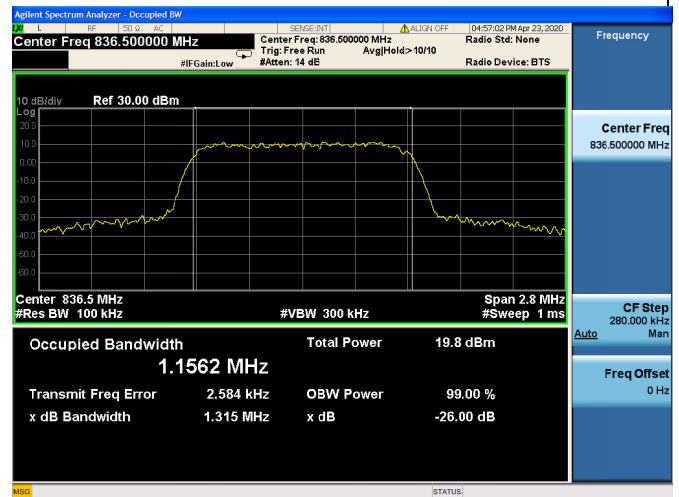
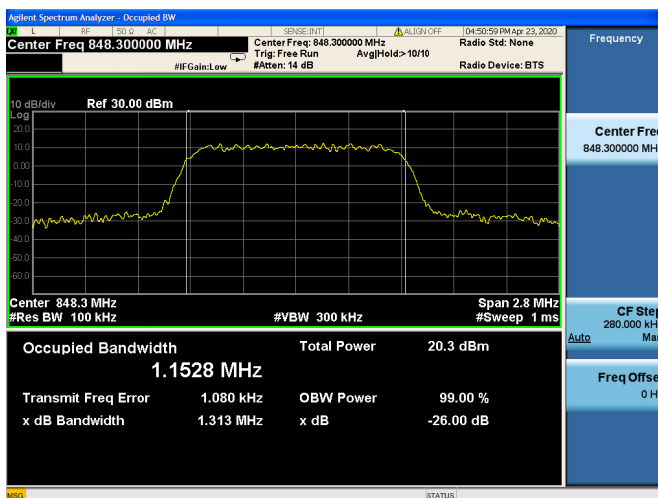
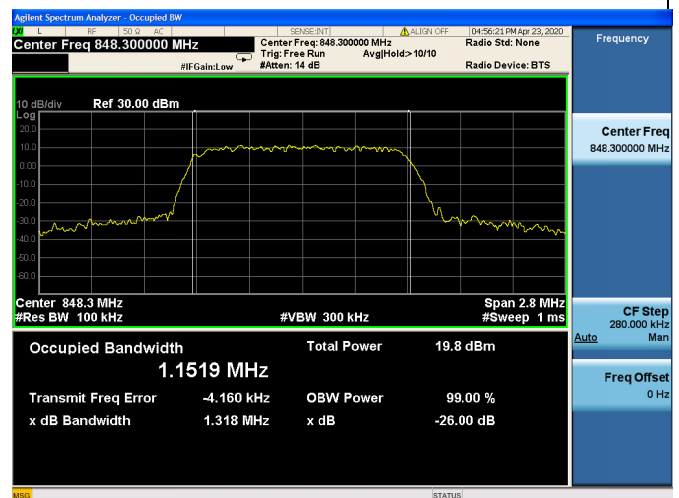
**Band25 / 3MHz / Low CH / QPSK****Band25 / 3MHz / Low CH / 16QAM****Band25 / 3MHz / Mid CH / QPSK****Band25 / 3MHz / Mid CH / 16QAM****Band25 / 3MHz / High CH / QPSK****Band25 / 3MHz / High CH / 16QAM**

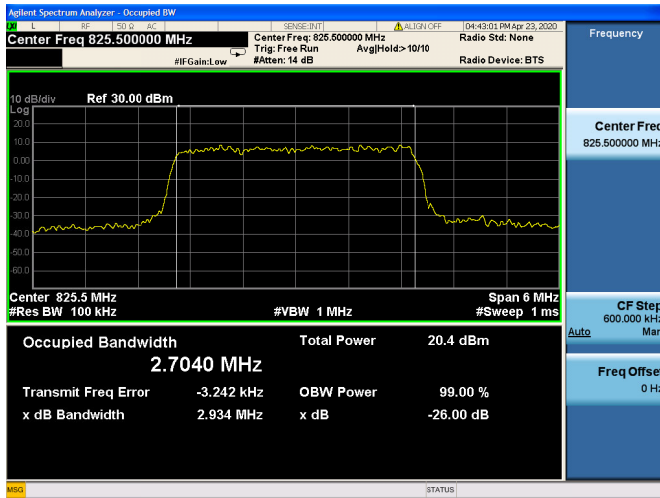
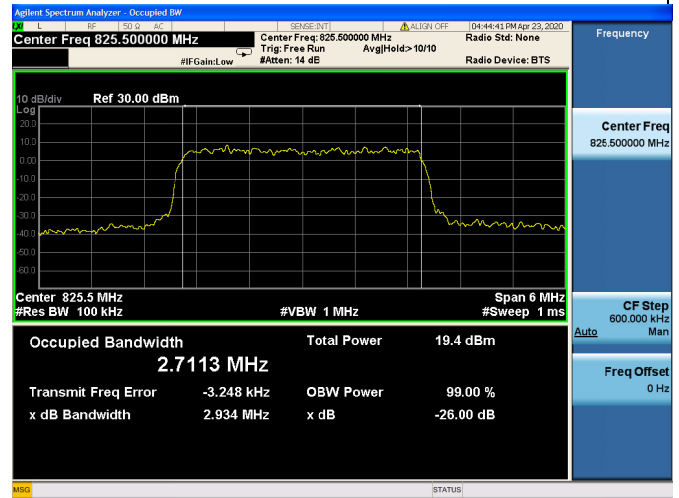
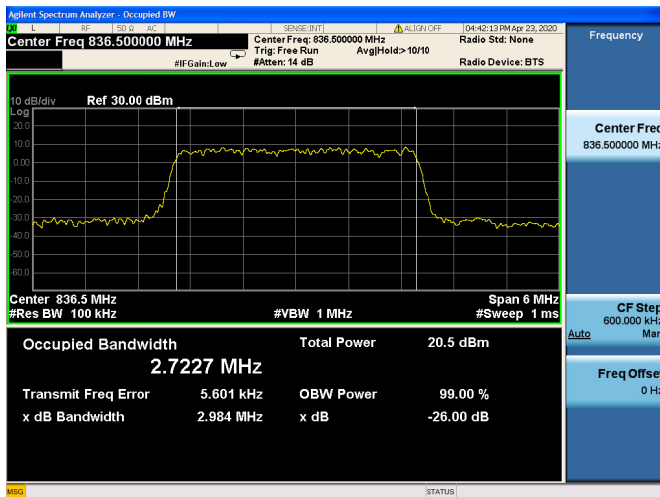
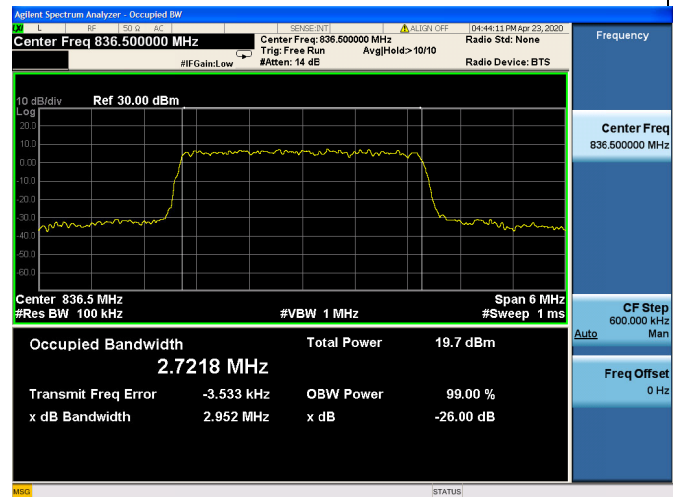
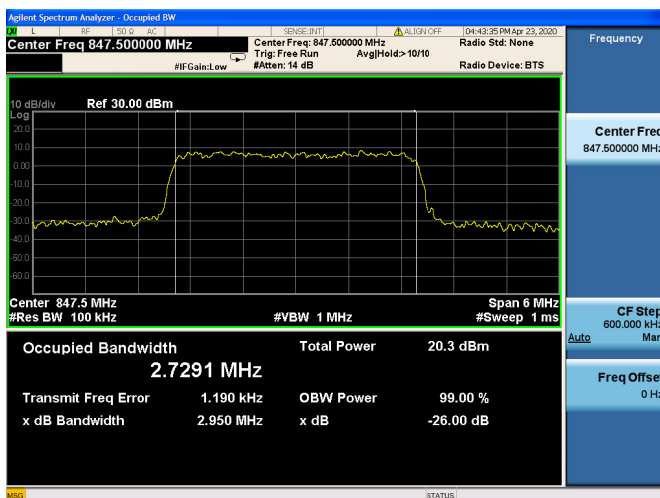
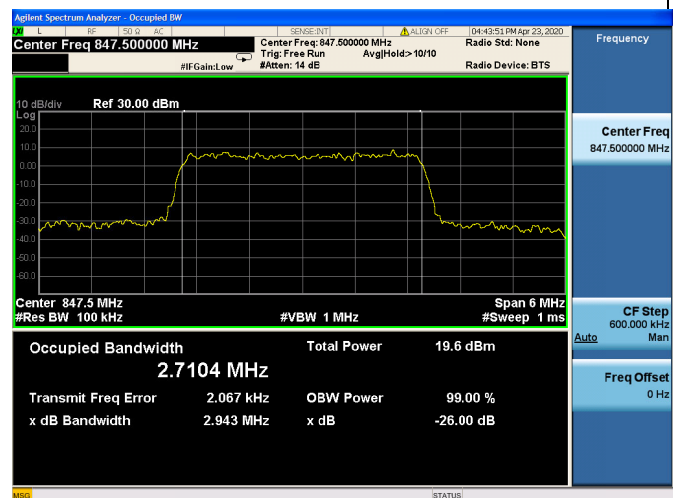
**Band25 / 5MHz / Low CH / QPSK****Band25 / 5MHz / Low CH / 16QAM****Band25 / 5MHz / Mid CH / QPSK****Band25 / 5MHz / Mid CH / 16QAM****Band25 / 5MHz / High CH / QPSK****Band25 / 5MHz / High CH / 16QAM**

**Band25 / 10MHz / Low CH / QPSK****Band25 / 10MHz / Low CH / 16QAM****Band25 / 10MHz / Mid CH / QPSK****Band25 / 10MHz / Mid CH / 16QAM****Band25 / 10MHz / High CH / QPSK****Band25 / 10MHz / High CH / 16QAM**

**Band25 / 15MHz / Low CH / QPSK****Band25 / 15MHz / Low CH / 16QAM****Band25 / 15MHz / Mid CH / QPSK****Band25 / 15MHz / Mid CH / 16QAM****Band25 / 15MHz / High CH / QPSK****Band25 / 15MHz / High CH / 16QAM**

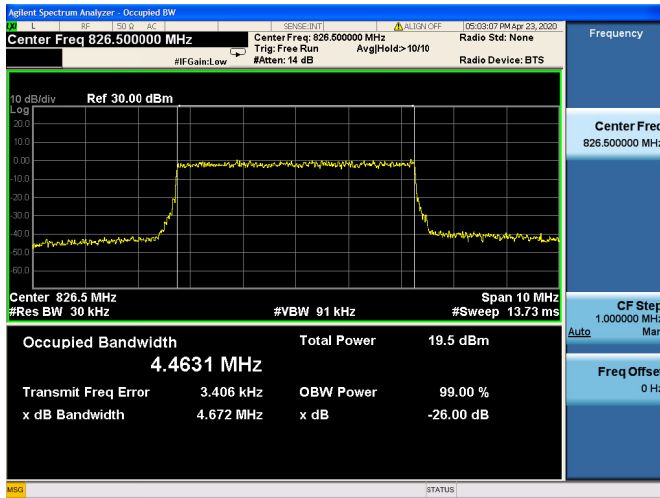
**Band25 / 20MHz / Low CH / QPSK****Band25 / 20MHz / Low CH / 16QAM****Band25 / 20MHz / Mid CH / QPSK****Band25 / 20MHz / Mid CH / 16QAM****Band25 / 20MHz / High CH / QPSK****Band25 / 20MHz / High CH / 16QAM**

**Band 26 / 1.4MHz BW / Low CH QPSK****Band 26 / 1.4MHz BW / Low CH / 16QAM****Band 26 / 1.4MHz BW / Mid CH QPSK****Band 26 / 1.4MHz BW / Mid CH / 16QAM****Band 26 / 1.4MHz BW / High CH QPSK****Band 26 / 1.4MHz BW / High CH / 16QAM**

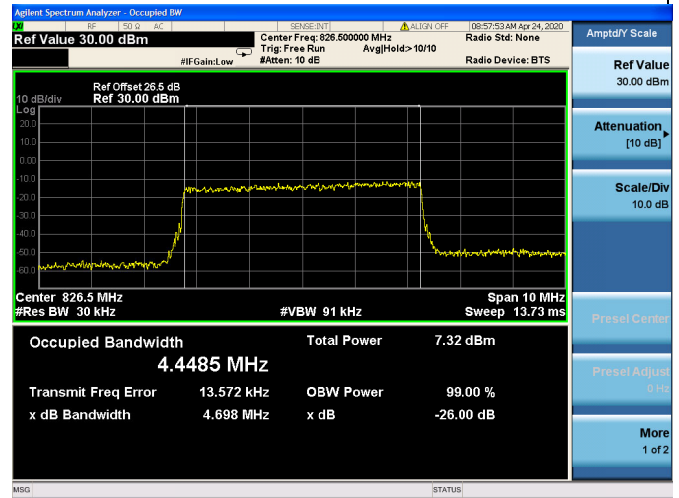
**Band 26 / 3MHz BW / Low CH QPSK****Band 26 / 3MHz BW / Low CH / 16QAM****Band 26 / 3MHz BW / Mid CH QPSK****Band 26 / 3MHz BW / Mid CH / 16QAM****Band 26 / 3MHz BW / High CH QPSK****Band 26 / 3MHz BW / High CH / 16QAM**



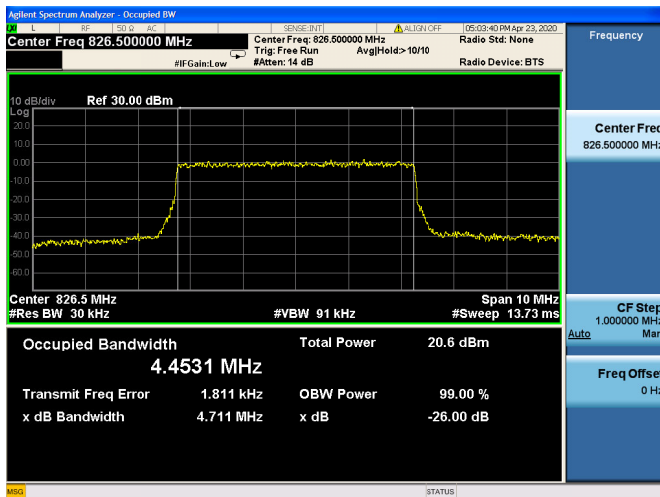
Band 26 / 5MHz BW / Low CH QPSK



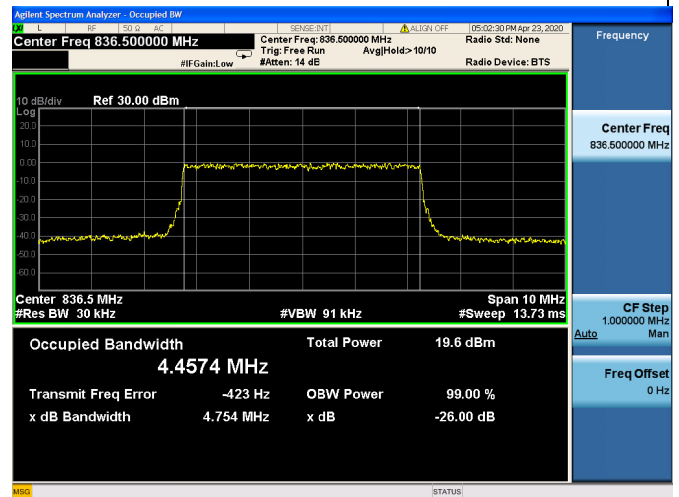
Band 26 / 5MHz BW / Low CH / 16QAM



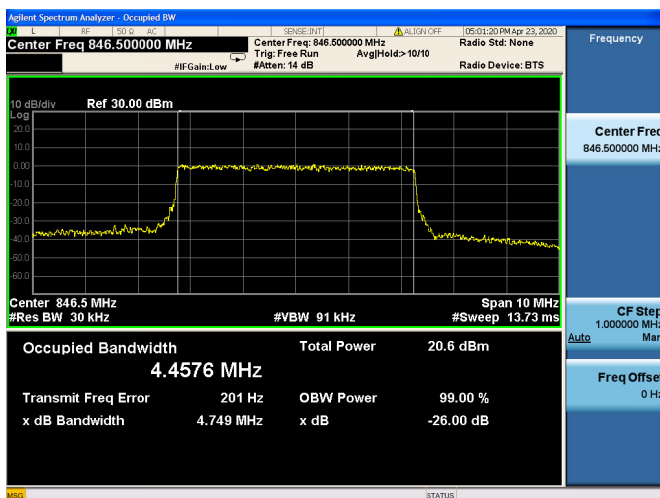
Band 26 / 5MHz BW / Mid CH QPSK



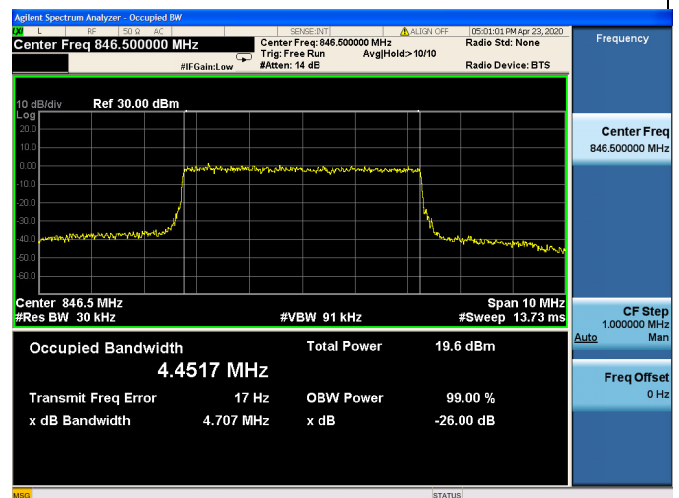
Band 26 / 5MHz BW / Mid CH / 16QAM



Band 26 / 5MHz BW / High CH QPSK

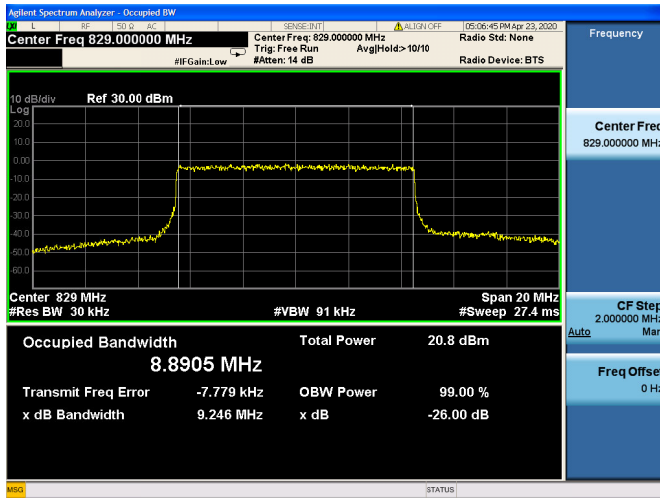


Band 26 / 5MHz BW / High CH / 16QAM

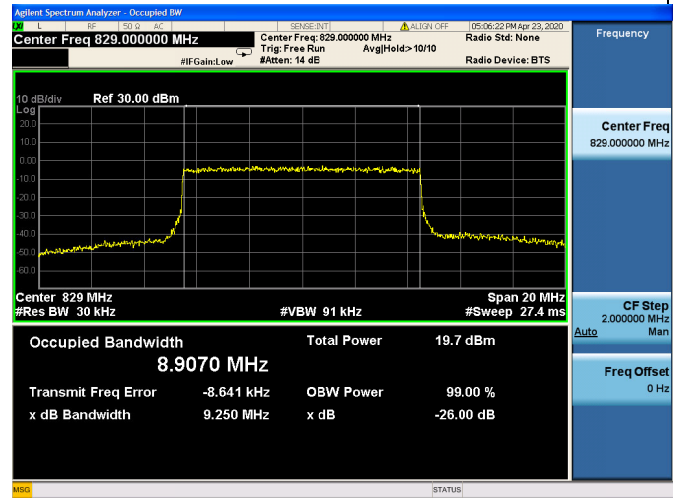




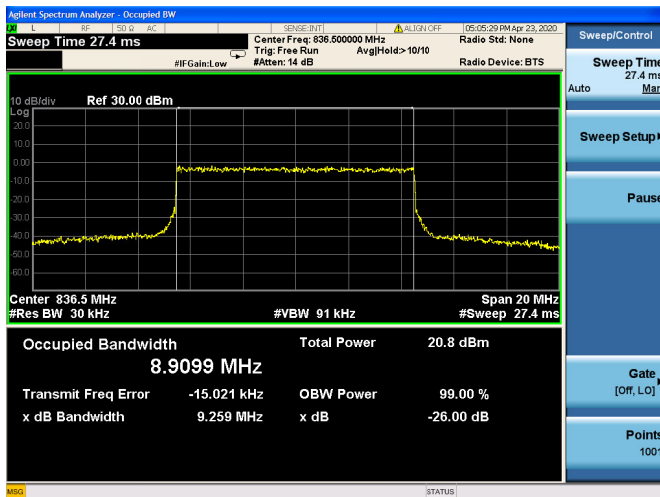
Band 26 / 10MHz BW / Low CH QPSK



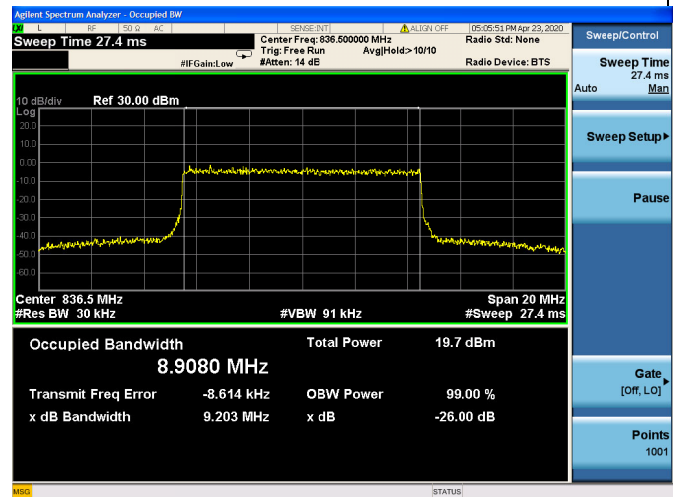
Band 26 / 10MHz BW / Low CH / 16QAM



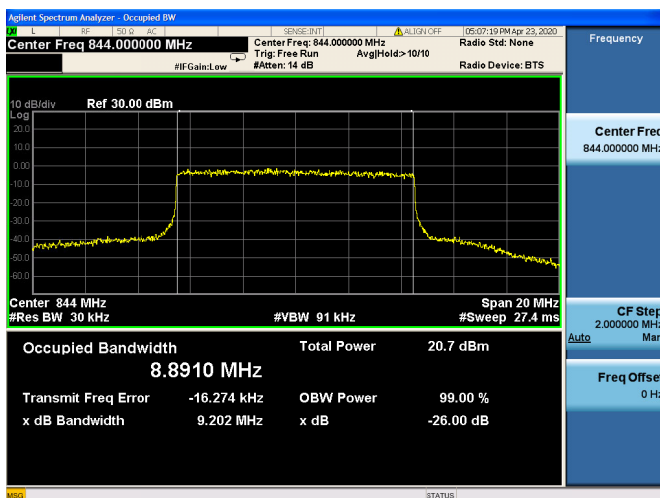
Band 26 / 10MHz BW / Mid CH QPSK



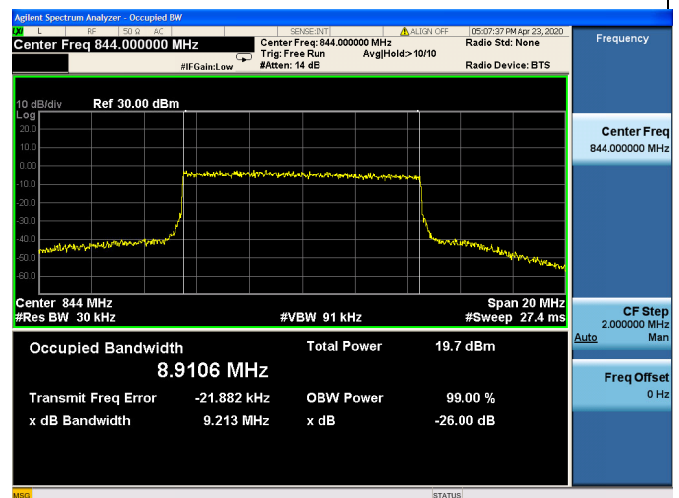
Band 26 / 10MHz BW / Mid CH / 16QAM



Band 26 / 10MHz BW / High CH QPSK

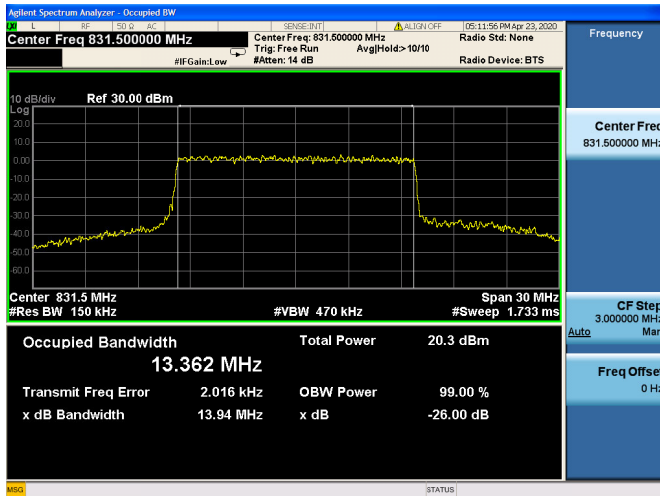


Band 26 / 10MHz BW / High CH / 16QAM

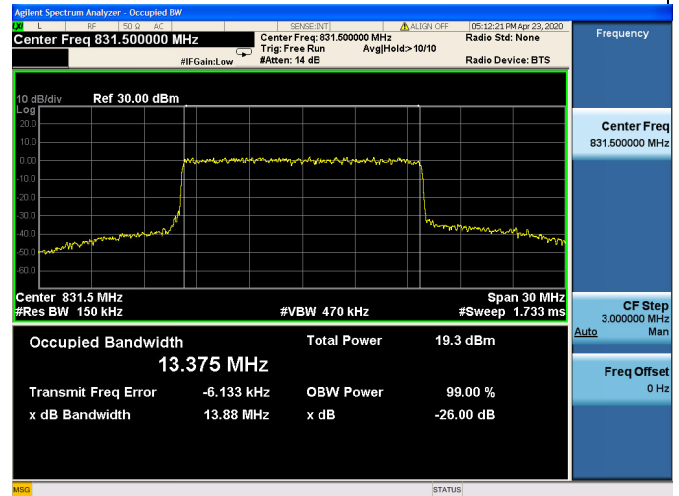




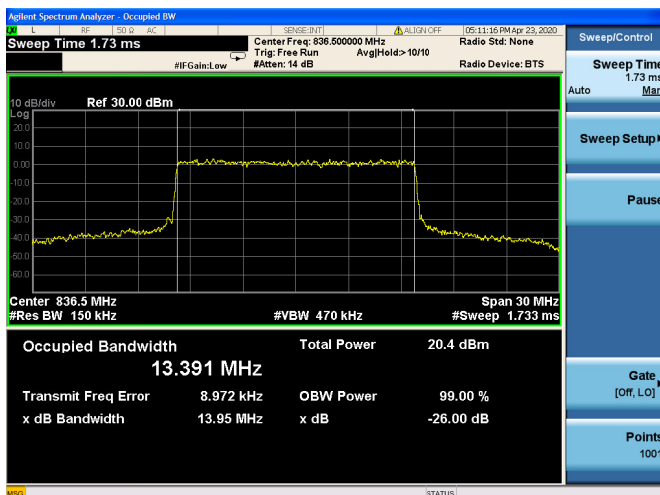
Band 26 / 15MHz BW / Low CH QPSK



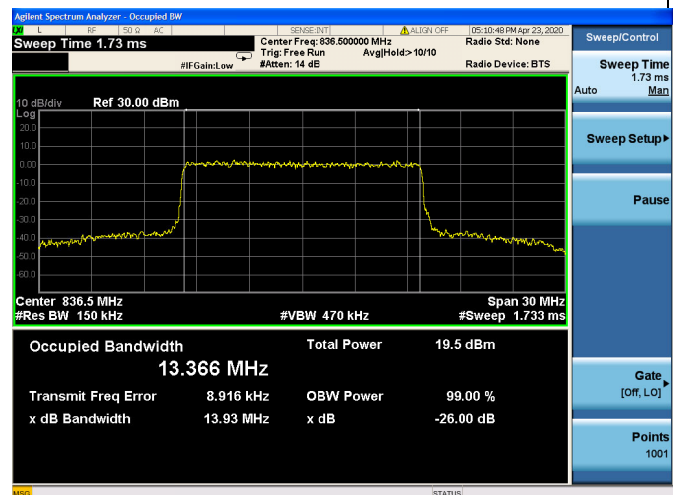
Band 26 / 15MHz BW / Low CH / 16QAM



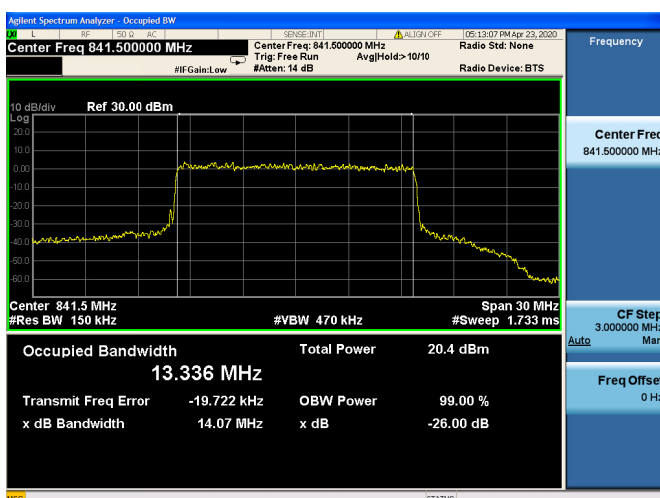
Band 26 / 15MHz BW / Mid CH QPSK



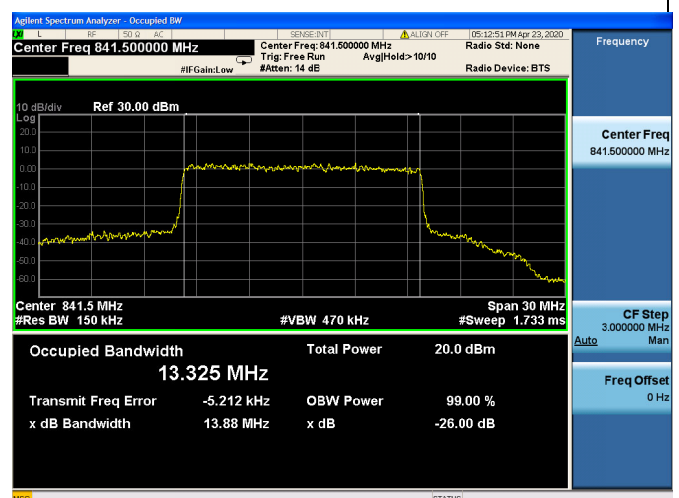
Band 26 / 15MHz BW / Mid CH / 16QAM

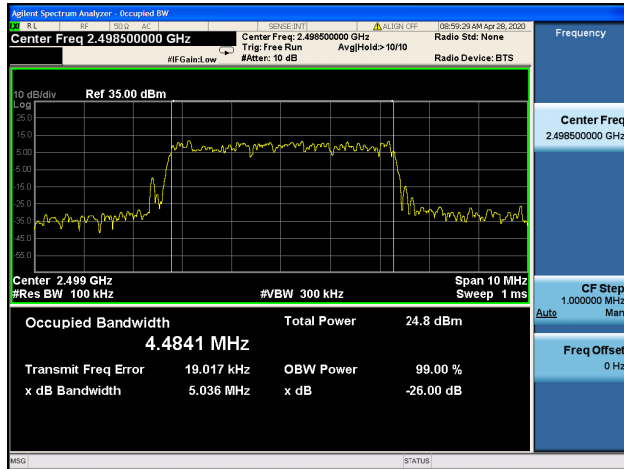
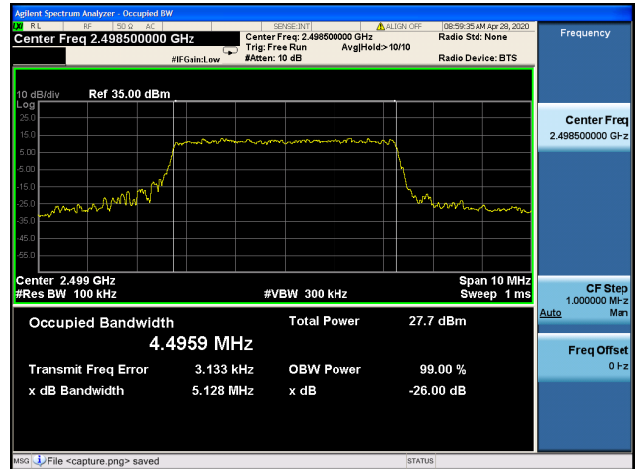
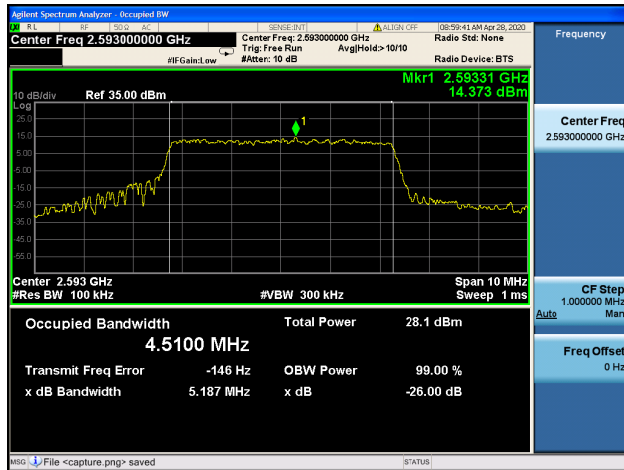
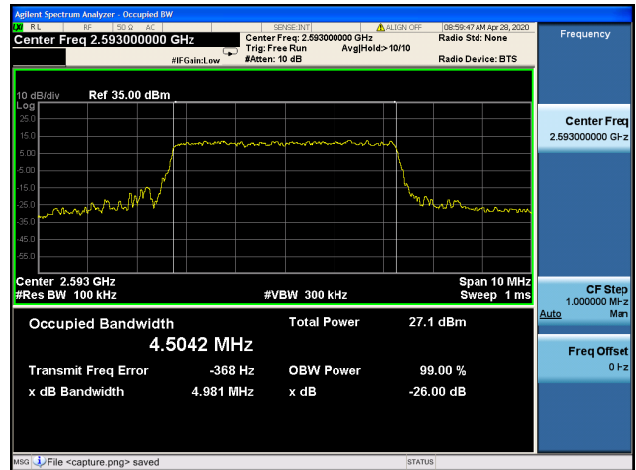
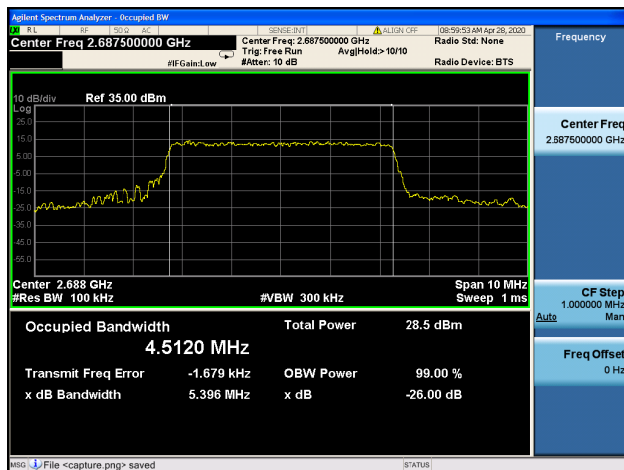


Band 26 / 15MHz BW / High CH QPSK



Band 26 / 15MHz BW / High CH / 16QAM



**Band41 / 5MHz / Low CH / QPSK****Band41 / 5MHz / Low CH / 16QAM****Band41 / 5MHz / Mid CH / QPSK****Band41 / 5MHz / Mid CH / 16QAM****Band41 / 5MHz / High CH / QPSK****Band41 / 5MHz / High CH / 16QAM**