



REPORT No.: SZ22030213W05

TEST REPORT

APPLICANT : Reliance Communications LLC

PRODUCT NAME : Orbic Journey R

MODEL NAME : RC2250L

BRAND NAME : Orbic

FCC ID : 2ABGH-RC2250L

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart F&H&L&M

RECEIPT DATE : 2022-03-25

TEST DATE : 2022-03-25 to 2022-05-17

ISSUE DATE : 2022-06-17

Edited by:

Zeng Xiaoying
Zeng Xiaoying (Rapporteur)

Approved by:

Shen Junsheng
Shen Junsheng (Supervisor)

NOTE: This document is issued by Shenzhen Morlab Communications Technology Co., Ltd., the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
1.3. Maximum E.R.P./E.I.R.P. and Emission Designator	6
1.4. Test Standards and Results	8
1.5. Environmental Conditions	9
2. 47 CFR Part 2, Part 22H, Part 24E, Part 27F&H&L&M Requirements	10
2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.	10
2.2. Occupied Bandwidth	102
2.3. Frequency Stability	158
2.4. Peak to Average Ratio	164
2.5. Conducted Spurious Emissions	193
2.6. Band Edge	243
2.7. Radiated Spurious Emissions	282
Annex A Test Uncertainty	319
Annex B Testing Laboratory Information	320

Change History		
Version	Date	Reason for change
1.0	2022-06-17	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Reliance Communications LLC
Applicant Address:	91 Colin Drive, Unit 1, HOLBROOK, New York 11741, United States
Manufacturer:	Unimaxcomm
Manufacturer Address:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China 518110

1.2. Equipment Under Test (EUT) Description

Product Name:	Orbic Journey R	
Sample No.:	2#	
Hardware Version:	V1.1	
Software Version:	ORB2250LBAC_V1.1.0_NA	
Modulation Type:	QPSK, 16QAM	
Carrier Aggregation:	Not Support	
Operation Band:	Band 2 / 4 / 5 / 12 / 13 / 17 / 25 / 26 / 41 / 66	
Frequency Range:	LTE Band 2	Tx: 1850MHz–1910MHz
		Rx: 1930MHz–1990MHz
	LTE Band 4	Tx: 1710MHz–1755MHz
		Rx: 2110MHz–2155MHz
	LTE Band 5	Tx: 824MHz–849MHz
		Rx: 869MHz–894MHz
	LTE Band 12	Tx: 699MHz - 716MHz
		Rx: 729MHz – 746MHz
	LTE Band 13	Tx: 777MHz–787MHz
		Rx: 746MHz–756MHz
	LTE Band 17	Tx: 704MHz - 716MHz
		Rx: 734MHz – 746MHz
	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
	LTE Band 66	Tx: 1710MHz–1780MHz
		Rx: 2110MHz–2200MHz
Channel Bandwidth:	LTE Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 13	5 MHz, 10MHz
	LTE Band 17	5 MHz, 10MHz
	LTE Band 25	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 26	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz
	LTE Band 41	5 MHz, 10MHz, 15MHz, 20MHz
	LTE Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	LTE Band 2	0.06dBi
	LTE Band 4	0.28dBi
	LTE Band 5	-1.54dBi
	LTE Band 12	-2.48dBi
	LTE Band 13	-2.85dBi
	LTE Band 17	-3.13dBi
	LTE Band 25	0.06dBi
	LTE Band 26	-2.48dBi
	LTE Band 41	1.69dBi
	LTE Band 66	0.28dBi
Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	BTE-1400
	Serial No.:	N/A
	Capacity:	1400mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	DongGuan GuoXia Electronic Technology



REPORT No.: SZ22030213W05

Accessory Information:	AC Adapter	
	Brand Name:	N/A
	Model No.:	TPA-5950070UU
	Serial No.:	N/A
	Rated Output:	5V $\Rightarrow$ 700mA
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.2A
	Manufacturer:	Shenzhen Tianyin Electronics

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 E.R.P./E.I.R.P. and Emission Designator

LTE Band 2		Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
20		0.117	0.096	17M9G7D	17M9W7D
15		0.116	0.091	13M5G7D	13M4W7D
10		0.116	0.095	9M00G7D	8M96W7D
5		0.116	0.095	4M51G7D	4M51W7D
3		0.116	0.089	2M70G7D	2M71W7D
1.4		0.115	0.087	1M10G7D	1M10W7D
LTE Band 4		Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
20		0.092	0.079	18M0G7D	17M9W7D
15		0.091	0.075	13M5G7D	13M5W7D
10		0.090	0.076	9M01G7D	8M96W7D
5		0.089	0.076	4M52G7D	4M51W7D
3		0.091	0.078	2M71G7D	2M71W7D
1.4		0.089	0.078	1M10G7D	1M11W7D
LTE Band 5		Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
10		0.088	0.077	8M98G7D	8M96W7D
5		0.086	0.079	4M51G7D	4M50W7D
3		0.086	0.077	2M70G7D	2M71W7D
1.4		0.087	0.078	1M10G7D	1M10W7D
LTE Band 12		Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
10		0.075	0.060	8M98G7D	8M95W7D
5		0.073	0.060	4M51G7D	4M51W7D
3		0.074	0.060	2M70G7D	2M70W7D
1.4		0.073	0.062	1M10G7D	1M10W7D
LTE Band 13		Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)		QPSK	16QAM	BW(MHz)	QPSK
10		0.066	0.056	8M97G7D	8M93W7D
5		0.065	0.057	4M50G7D	4M51W7D
LTE Band 17		Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)		QPSK	16QAM	BW(MHz)	QPSK
10		0.064	0.051	8M99G7D	8M95W7D
5		0.062	0.056	4M51G7D	4M51W7D



LTE Band 25	Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.112	0.096	17M9G7D	17M9W7D
15	0.111	0.094	13M5G7D	13M5W7D
10	0.111	0.091	8M97G7D	8M96W7D
5	0.109	0.096	4M51G7D	4M51W7D
3	0.103	0.082	2M70G7D	2M70W7D
1.4	0.107	0.087	1M10G7D	1M10W7D
LTE Band 26	Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
15	0.072	0.062	13M4G7D	13M5W7D
10	0.070	0.063	8M97G7D	8M95W7D
5	0.070	0.059	4M51G7D	4M51W7D
3	0.070	0.060	2M70G7D	2M71W7D
1.4	0.070	0.058	1M10G7D	1M10W7D
LTE Band 41	Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.123	0.105	17M9G7D	18M0W7D
15	0.121	0.107	13M5G7D	13M5W7D
10	0.121	0.101	8M99G7D	8M98W7D
5	0.121	0.112	4M52G7D	4M52W7D
LTE Band 66	Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
20	0.092	0.076	17M9G7D	17M9W7D
15	0.089	0.075	13M4G7D	13M4W7D
10	0.086	0.079	8M99G7D	8M95W7D
5	0.086	0.079	4M51G7D	4M51W7D
3	0.085	0.076	2M71G7D	2M71W7D
1.4	0.085	0.078	1M10G7D	1M10W7D



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, 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(b)(10) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	May 11, 2022	Chen Hao Li Huaijie	PASS	No deviation
2.1049	Occupied Bandwidth	Mar. 29, 2022 Apr. 01, 2022	Li Huaijie	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Apr. 01, 2022	Li Huaijie	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Mar. 28, 2022 Apr. 13, 2022	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Mar. 29, 2022	Li Huaijie	PASS	No deviation
2.1051 22.917(a)	Band Edge	Mar. 25&28, 2022	Li Huaijie	PASS	No deviation



24.238(a) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)					
2.1053 22.917(a) 24.238(a) 27.53(g) 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	May 13&17, 2022	Su Zhan	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 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB.

Note 3: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

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, Part 27F&H&L&M Requirements

2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

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

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

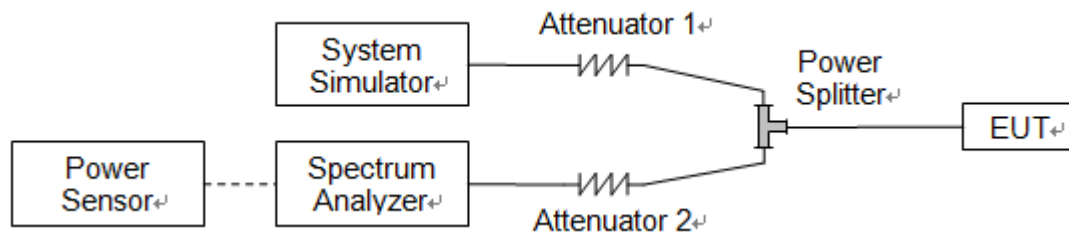
According to FCC section 22.913 (a)(2) for LTE Band 5/26, the E.R.P. of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h)(2) for LTE Band 41, Mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

According to FCC section 27.50 (b)(10) for LTE Band 13, Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts E.R.P.

According to FCC section 27.50 (c)(10) for LTE Band 12/17, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts E.R.P.

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 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.

E.I.R.P. (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

E.R.P. (dBm) = E.I.R.P. (dBm) - 2.15

**2.1.4. Result****Conducted Output Power:**

LTE Band 2						
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	20.61	20.64	20.58
20	QPSK	1	49	20.59	20.53	20.46
20	QPSK	1	99	20.53	20.49	20.47
20	QPSK	50	0	19.36	19.45	19.38
20	QPSK	50	24	19.37	19.42	19.42
20	QPSK	50	50	19.42	19.38	19.44
20	QPSK	100	0	19.35	19.44	19.40
20	16QAM	1	0	19.41	19.41	19.43
20	16QAM	1	49	19.25	19.55	19.51
20	16QAM	1	99	19.50	19.35	19.75
20	16QAM	50	0	19.43	19.40	19.38
20	16QAM	50	24	19.39	19.44	19.45
20	16QAM	50	50	19.47	19.44	19.51
20	16QAM	100	0	19.50	19.51	19.38



LTE Band 2						
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	20.42	20.45	20.36
15	QPSK	1	37	20.21	20.57	20.45
15	QPSK	1	74	20.58	20.50	20.58
15	QPSK	36	0	19.22	19.31	19.30
15	QPSK	36	20	19.21	19.40	19.37
15	QPSK	36	39	19.33	19.34	19.31
15	QPSK	75	0	19.25	19.31	19.27
15	16QAM	1	0	19.34	19.42	19.36
15	16QAM	1	37	19.47	19.50	19.36
15	16QAM	1	74	19.42	19.54	19.54
15	16QAM	36	0	19.21	19.26	19.29
15	16QAM	36	20	19.30	19.23	19.36
15	16QAM	36	39	19.35	19.44	19.41
15	16QAM	75	0	19.22	19.24	19.33



LTE Band 2						
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	20.39	20.25	20.48
10	QPSK	1	25	20.50	20.59	20.48
10	QPSK	1	49	20.39	20.47	20.39
10	QPSK	25	0	19.33	19.34	19.30
10	QPSK	25	12	19.29	19.41	19.34
10	QPSK	25	25	19.20	19.33	19.29
10	QPSK	50	0	19.26	19.35	19.33
10	16QAM	1	0	19.74	19.67	19.66
10	16QAM	1	25	19.43	19.39	19.46
10	16QAM	1	49	19.38	19.46	19.25
10	16QAM	25	0	19.28	19.27	19.24
10	16QAM	25	12	19.44	19.24	19.24
10	16QAM	25	25	19.24	19.44	19.54
10	16QAM	50	0	19.36	19.29	19.33



LTE Band 2						
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	20.53	20.58	20.52
5	QPSK	1	12	20.52	20.47	20.50
5	QPSK	1	24	20.48	20.56	20.57
5	QPSK	12	0	19.32	19.23	19.30
5	QPSK	12	7	19.33	19.38	19.30
5	QPSK	12	13	19.32	19.31	19.34
5	QPSK	25	0	19.31	19.29	19.31
5	16QAM	1	0	19.44	19.34	19.72
5	16QAM	1	12	19.42	19.35	19.72
5	16QAM	1	24	19.45	19.32	19.71
5	16QAM	12	0	19.54	19.68	19.54
5	16QAM	12	7	19.44	19.44	19.24
5	16QAM	12	13	19.24	19.57	19.34
5	16QAM	25	0	19.34	19.35	19.33



LTE Band 2						
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	20.47	20.54	20.46
3	QPSK	1	8	20.57	20.42	20.43
3	QPSK	1	14	20.58	20.45	20.45
3	QPSK	8	0	19.20	19.15	19.17
3	QPSK	8	4	19.26	19.20	19.21
3	QPSK	8	7	19.26	19.20	19.16
3	QPSK	15	0	19.18	19.26	19.19
3	16QAM	1	0	19.34	19.25	19.19
3	16QAM	1	8	19.38	19.32	19.28
3	16QAM	1	14	19.31	19.28	19.16
3	16QAM	8	0	19.29	19.42	19.34
3	16QAM	8	4	19.36	19.33	19.39
3	16QAM	8	7	19.26	19.31	19.34
3	16QAM	15	0	19.29	19.33	19.28



LTE Band 2						
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	20.53	20.56	20.51
1.4	QPSK	1	3	20.43	20.41	20.40
1.4	QPSK	1	5	20.40	20.38	20.36
1.4	QPSK	3	0	20.40	20.40	20.36
1.4	QPSK	3	1	20.44	20.41	20.39
1.4	QPSK	3	3	20.46	20.50	20.39
1.4	QPSK	6	0	19.16	19.14	19.13
1.4	16QAM	1	0	19.19	19.19	19.13
1.4	16QAM	1	3	19.15	19.35	19.33
1.4	16QAM	1	5	19.03	19.23	18.91
1.4	16QAM	3	0	19.05	19.10	19.07
1.4	16QAM	3	1	19.23	19.05	19.10
1.4	16QAM	3	3	19.25	19.22	18.96
1.4	16QAM	6	0	19.26	19.19	19.14



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	19.26	19.34	19.33
20	QPSK	1	49	19.12	19.20	19.19
20	QPSK	1	99	19.04	19.17	19.29
20	QPSK	50	0	18.33	18.46	18.43
20	QPSK	50	24	18.33	18.41	18.41
20	QPSK	50	50	18.22	18.33	18.34
20	QPSK	100	0	18.32	18.48	18.43
20	16QAM	1	0	18.19	18.49	18.36
20	16QAM	1	49	18.34	18.11	18.25
20	16QAM	1	99	18.13	18.35	18.19
20	16QAM	50	0	18.32	18.25	18.39
20	16QAM	50	24	18.58	18.69	18.58
20	16QAM	50	50	18.54	18.55	18.55
20	16QAM	100	0	18.56	18.64	18.65



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	19.13	19.17	19.27
15	QPSK	1	37	19.17	19.26	19.18
15	QPSK	1	74	19.04	19.26	19.29
15	QPSK	36	0	18.27	18.34	18.37
15	QPSK	36	20	18.31	18.44	18.40
15	QPSK	36	39	18.36	18.35	18.44
15	QPSK	75	0	18.31	18.33	18.34
15	16QAM	1	0	18.25	18.47	18.19
15	16QAM	1	37	18.33	18.33	18.17
15	16QAM	1	74	18.19	18.49	18.28
15	16QAM	36	0	18.20	18.22	18.41
15	16QAM	36	20	18.15	18.22	18.28
15	16QAM	36	39	18.11	18.20	18.26
15	16QAM	75	0	18.22	18.23	18.32



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	19.05	19.24	19.07
10	QPSK	1	25	19.03	19.16	19.17
10	QPSK	1	49	19.11	18.94	19.17
10	QPSK	25	0	18.10	18.32	18.34
10	QPSK	25	12	18.22	18.28	18.32
10	QPSK	25	25	18.11	18.22	18.29
10	QPSK	50	0	18.17	18.27	18.19
10	16QAM	1	0	18.16	18.31	18.07
10	16QAM	1	25	18.43	18.17	18.49
10	16QAM	1	49	18.50	18.40	18.39
10	16QAM	25	0	18.16	18.15	18.14
10	16QAM	25	12	18.08	18.18	18.15
10	16QAM	25	25	18.42	18.33	18.42
10	16QAM	50	0	18.36	18.40	18.52



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	18.95	19.17	19.22
5	QPSK	1	12	19.01	19.16	19.13
5	QPSK	1	24	18.96	19.08	19.07
5	QPSK	12	0	18.18	18.18	18.22
5	QPSK	12	7	18.18	18.29	18.26
5	QPSK	12	13	18.13	18.30	18.22
5	QPSK	25	0	18.16	18.20	18.26
5	16QAM	1	0	18.06	18.47	18.15
5	16QAM	1	12	18.17	18.52	18.11
5	16QAM	1	24	18.11	18.46	18.06
5	16QAM	12	0	18.10	18.04	18.07
5	16QAM	12	7	18.13	18.17	18.15
5	16QAM	12	13	18.40	18.47	18.51
5	16QAM	25	0	18.41	18.52	18.45



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	19.07	19.08	19.20
3	QPSK	1	8	19.16	19.30	19.24
3	QPSK	1	14	18.96	19.15	19.15
3	QPSK	8	0	18.16	18.22	18.23
3	QPSK	8	4	18.22	18.30	18.32
3	QPSK	8	7	18.18	18.28	18.28
3	QPSK	15	0	18.18	18.24	18.18
3	16QAM	1	0	18.26	18.35	18.39
3	16QAM	1	8	18.48	18.48	18.22
3	16QAM	1	14	18.39	18.17	18.25
3	16QAM	8	0	18.18	18.19	18.28
3	16QAM	8	4	18.28	18.28	18.29
3	16QAM	8	7	18.50	18.58	18.62
3	16QAM	15	0	18.50	18.48	18.55



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	18.82	19.03	19.04
1.4	QPSK	1	3	19.16	19.16	19.20
1.4	QPSK	1	5	19.02	19.11	19.13
1.4	QPSK	3	0	19.10	19.07	19.06
1.4	QPSK	3	1	19.06	19.16	19.21
1.4	QPSK	3	3	19.05	19.12	19.11
1.4	QPSK	6	0	18.21	18.23	18.19
1.4	16QAM	1	0	18.15	18.62	18.28
1.4	16QAM	1	3	18.28	18.36	18.40
1.4	16QAM	1	5	18.34	18.50	18.30
1.4	16QAM	3	0	18.37	18.41	18.32
1.4	16QAM	3	1	18.38	18.41	18.43
1.4	16QAM	3	3	18.37	18.49	18.38
1.4	16QAM	6	0	18.28	18.29	18.20



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.10	23.14	23.13
10	QPSK	1	25	22.96	22.99	22.79
10	QPSK	1	49	22.88	23.00	22.68
10	QPSK	25	0	22.41	22.43	22.24
10	QPSK	25	12	22.17	22.19	22.24
10	QPSK	25	25	22.17	22.28	22.33
10	QPSK	50	0	22.23	22.36	22.25
10	16QAM	1	0	22.27	22.46	22.17
10	16QAM	1	25	22.50	22.53	22.21
10	16QAM	1	49	22.33	22.39	22.46
10	16QAM	25	0	22.42	22.43	22.25
10	16QAM	25	12	22.36	22.44	22.22
10	16QAM	25	25	22.39	22.32	22.35
10	16QAM	50	0	22.40	22.31	22.21



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.05	23.01	22.99
5	QPSK	1	12	22.95	23.06	22.90
5	QPSK	1	24	22.95	22.90	22.90
5	QPSK	12	0	22.32	22.37	22.23
5	QPSK	12	7	22.39	22.40	22.32
5	QPSK	12	13	22.44	22.28	22.23
5	QPSK	25	0	22.35	22.31	22.23
5	16QAM	1	0	22.64	22.57	22.33
5	16QAM	1	12	22.34	22.56	22.32
5	16QAM	1	24	22.21	22.56	22.39
5	16QAM	12	0	22.30	22.39	22.38
5	16QAM	12	7	22.37	22.40	22.22
5	16QAM	12	13	22.37	22.28	22.33
5	16QAM	25	0	22.38	22.43	22.38



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.74	23.05	22.90
3	QPSK	1	8	23.00	23.01	22.92
3	QPSK	1	14	23.01	22.99	22.73
3	QPSK	8	0	22.25	22.38	22.36
3	QPSK	8	4	22.39	22.45	22.42
3	QPSK	8	7	22.34	22.36	22.23
3	QPSK	15	0	22.32	22.38	22.37
3	16QAM	1	0	22.34	22.45	22.52
3	16QAM	1	8	22.27	22.53	22.37
3	16QAM	1	14	22.32	22.58	22.33
3	16QAM	8	0	22.28	22.37	22.11
3	16QAM	8	4	22.44	22.55	22.12
3	16QAM	8	7	22.36	22.42	22.16
3	16QAM	15	0	22.30	22.32	21.87



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.95	23.02	23.06
1.4	QPSK	1	3	23.08	23.01	23.08
1.4	QPSK	1	5	22.97	22.91	22.92
1.4	QPSK	3	0	22.98	23.04	23.00
1.4	QPSK	3	1	23.04	22.91	23.01
1.4	QPSK	3	3	23.05	22.97	22.97
1.4	QPSK	6	0	22.30	22.29	22.28
1.4	16QAM	1	0	22.43	22.24	22.41
1.4	16QAM	1	3	22.23	22.47	22.36
1.4	16QAM	1	5	22.62	22.30	22.36
1.4	16QAM	3	0	22.15	22.13	22.27
1.4	16QAM	3	1	22.18	22.45	22.31
1.4	16QAM	3	3	22.26	22.37	22.25
1.4	16QAM	6	0	22.45	22.32	22.36



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.21	23.37	23.26
10	QPSK	1	25	23.07	23.20	23.23
10	QPSK	1	49	23.17	23.18	23.17
10	QPSK	25	0	22.46	22.56	22.47
10	QPSK	25	12	22.43	22.37	22.16
10	QPSK	25	25	22.48	22.54	22.47
10	QPSK	50	0	22.49	22.59	22.42
10	16QAM	1	0	22.42	21.97	22.10
10	16QAM	1	25	22.17	22.12	22.26
10	16QAM	1	49	22.26	22.31	22.20
10	16QAM	25	0	22.15	22.17	22.11
10	16QAM	25	12	22.19	22.23	22.12
10	16QAM	25	25	22.24	22.25	22.19
10	16QAM	50	0	22.14	22.22	22.27



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	22.96	23.29	23.07
5	QPSK	1	12	23.12	23.28	23.12
5	QPSK	1	24	23.08	23.27	23.13
5	QPSK	12	0	22.19	22.26	22.25
5	QPSK	12	7	22.30	22.32	22.29
5	QPSK	12	13	22.25	22.28	22.25
5	QPSK	25	0	22.21	22.33	22.29
5	16QAM	1	0	22.22	22.24	22.26
5	16QAM	1	12	22.39	22.34	22.35
5	16QAM	1	24	22.35	22.33	22.29
5	16QAM	12	0	22.09	22.06	22.09
5	16QAM	12	7	22.23	22.28	22.12
5	16QAM	12	13	22.18	22.15	22.20
5	16QAM	25	0	22.19	22.15	22.17



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	23.04	23.31	22.98
3	QPSK	1	8	23.22	23.21	23.11
3	QPSK	1	14	23.16	23.27	23.22
3	QPSK	8	0	22.27	22.25	22.25
3	QPSK	8	4	22.30	22.33	22.34
3	QPSK	8	7	22.25	22.33	22.27
3	QPSK	15	0	22.03	22.11	21.97
3	16QAM	1	0	22.04	22.40	21.99
3	16QAM	1	8	22.24	22.22	22.17
3	16QAM	1	14	22.07	22.12	21.98
3	16QAM	8	0	22.04	21.93	21.96
3	16QAM	8	4	22.09	22.06	22.17
3	16QAM	8	7	21.93	21.96	22.02
3	16QAM	15	0	22.12	22.05	22.04



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	23.07	23.24	23.04
1.4	QPSK	1	3	23.18	23.17	23.19
1.4	QPSK	1	5	23.07	23.12	23.08
1.4	QPSK	3	0	23.02	23.15	23.13
1.4	QPSK	3	1	23.23	23.23	22.90
1.4	QPSK	3	3	23.18	23.20	23.16
1.4	QPSK	6	0	22.24	22.21	22.19
1.4	16QAM	1	0	22.28	22.22	22.07
1.4	16QAM	1	3	22.09	22.52	22.19
1.4	16QAM	1	5	22.21	22.22	22.21
1.4	16QAM	3	0	22.05	22.08	22.09
1.4	16QAM	3	1	22.21	22.29	22.13
1.4	16QAM	3	3	22.04	22.18	22.18
1.4	16QAM	6	0	21.97	22.17	22.07



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	23230	/
Frequency (MHz)				/	782	/
10	QPSK	1	0	/	23.21	/
10	QPSK	1	25	/	23.19	/
10	QPSK	1	49	/	23.05	/
10	QPSK	25	0	/	22.34	/
10	QPSK	25	12	/	22.21	/
10	QPSK	25	25	/	22.30	/
10	QPSK	50	0	/	22.31	/
10	16QAM	1	0	/	22.20	/
10	16QAM	1	25	/	22.11	/
10	16QAM	1	49	/	22.50	/
10	16QAM	25	0	/	22.14	/
10	16QAM	25	12	/	22.01	/
10	16QAM	25	25	/	22.22	/
10	16QAM	50	0	/	22.17	/



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	23.03	23.12	23.12
5	QPSK	1	12	23.13	23.10	23.14
5	QPSK	1	24	23.07	23.14	23.14
5	QPSK	12	0	22.06	22.15	22.17
5	QPSK	12	7	22.14	22.21	22.16
5	QPSK	12	13	22.17	22.20	22.24
5	QPSK	25	0	22.23	22.16	22.18
5	16QAM	1	0	22.39	22.50	22.57
5	16QAM	1	12	22.21	22.32	22.30
5	16QAM	1	24	22.25	22.25	22.47
5	16QAM	12	0	22.05	22.16	22.18
5	16QAM	12	7	22.12	22.15	22.14
5	16QAM	12	13	22.18	22.16	22.05
5	16QAM	25	0	22.13	22.21	22.13



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	23.28	23.31	23.28
10	QPSK	1	25	23.16	23.12	23.18
10	QPSK	1	49	23.09	23.12	23.07
10	QPSK	25	0	22.39	22.45	22.37
10	QPSK	25	12	22.24	22.18	22.32
10	QPSK	25	25	22.22	22.22	22.31
10	QPSK	50	0	22.35	22.22	22.23
10	16QAM	1	0	21.87	22.06	22.20
10	16QAM	1	25	22.08	22.37	22.21
10	16QAM	1	49	22.04	22.29	22.34
10	16QAM	25	0	21.98	22.22	22.21
10	16QAM	25	12	22.04	22.19	22.17
10	16QAM	25	25	21.87	22.13	22.18
10	16QAM	50	0	21.91	22.20	22.17



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	23.22	23.18	23.14
5	QPSK	1	12	23.21	23.17	23.16
5	QPSK	1	24	23.13	23.19	23.18
5	QPSK	12	0	22.29	22.47	22.63
5	QPSK	12	7	22.41	22.50	22.58
5	QPSK	12	13	22.24	22.52	22.58
5	QPSK	25	0	22.06	22.23	22.36
5	16QAM	1	0	22.54	22.59	22.31
5	16QAM	1	12	22.71	22.27	22.64
5	16QAM	1	24	22.55	22.60	22.76
5	16QAM	12	0	21.99	22.02	22.23
5	16QAM	12	7	21.99	22.06	22.18
5	16QAM	12	13	21.90	22.15	22.18
5	16QAM	25	0	22.00	22.12	22.16



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	20.43	20.45	20.38
20	QPSK	1	49	20.38	20.38	20.39
20	QPSK	1	99	20.39	20.34	20.44
20	QPSK	50	0	19.54	19.55	19.53
20	QPSK	50	24	19.39	19.32	19.29
20	QPSK	50	50	19.53	19.33	19.32
20	QPSK	100	0	19.32	19.39	19.33
20	16QAM	1	0	19.49	19.32	19.39
20	16QAM	1	49	19.37	19.32	19.27
20	16QAM	1	99	19.29	19.39	19.37
20	16QAM	50	0	19.39	19.32	19.62
20	16QAM	50	24	19.60	19.29	19.39
20	16QAM	50	50	19.66	19.75	19.36
20	16QAM	100	0	19.59	19.74	19.43



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	20.15	20.35	20.22
15	QPSK	1	37	20.33	20.39	20.22
15	QPSK	1	74	20.31	20.32	20.15
15	QPSK	36	0	19.49	19.34	19.54
15	QPSK	36	20	19.54	19.30	19.50
15	QPSK	36	39	19.57	19.29	19.53
15	QPSK	75	0	19.59	19.32	19.56
15	16QAM	1	0	19.40	19.69	19.34
15	16QAM	1	37	19.57	19.26	19.40
15	16QAM	1	74	19.49	19.33	19.24
15	16QAM	36	0	19.56	19.23	19.43
15	16QAM	36	20	19.50	19.19	19.39
15	16QAM	36	39	19.63	19.50	19.43
15	16QAM	75	0	19.64	19.21	19.43



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	20.24	20.32	20.20
10	QPSK	1	25	20.29	20.19	20.15
10	QPSK	1	49	20.16	20.39	20.39
10	QPSK	25	0	19.54	19.42	19.38
10	QPSK	25	12	19.53	19.31	19.38
10	QPSK	25	25	19.62	19.26	19.42
10	QPSK	50	0	19.66	19.34	19.40
10	16QAM	1	0	19.01	19.16	19.41
10	16QAM	1	25	19.10	19.31	19.24
10	16QAM	1	49	19.06	19.23	19.37
10	16QAM	25	0	19.09	19.37	19.55
10	16QAM	25	12	19.06	19.23	19.49
10	16QAM	25	25	19.13	19.35	19.20
10	16QAM	50	0	19.09	19.33	19.51



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	20.09	20.32	20.29
5	QPSK	1	12	20.24	20.19	20.32
5	QPSK	1	24	20.15	20.29	20.02
5	QPSK	12	0	19.47	19.51	19.60
5	QPSK	12	7	19.60	19.36	19.66
5	QPSK	12	13	19.60	19.58	19.72
5	QPSK	25	0	19.61	19.59	19.74
5	16QAM	1	0	19.44	19.60	19.29
5	16QAM	1	12	19.61	19.77	19.45
5	16QAM	1	24	19.47	19.58	19.30
5	16QAM	12	0	19.24	19.24	19.42
5	16QAM	12	7	19.19	19.34	19.53
5	16QAM	12	13	19.32	19.24	19.46
5	16QAM	25	0	19.30	18.90	19.00



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				26055	26365	26675
Frequency (MHz)				1851.5	1882.5	1913.5
3	QPSK	1	0	20.05	20.08	20.06
3	QPSK	1	8	20.05	20.07	20.03
3	QPSK	1	14	20.04	20.02	19.95
3	QPSK	8	0	18.75	18.83	18.92
3	QPSK	8	4	18.82	18.81	18.90
3	QPSK	8	7	18.74	18.90	18.88
3	QPSK	15	0	18.81	18.78	18.88
3	16QAM	1	0	18.46	18.82	18.61
3	16QAM	1	8	18.52	18.67	18.55
3	16QAM	1	14	18.62	18.44	18.45
3	16QAM	8	0	19.05	19.02	18.95
3	16QAM	8	4	19.06	18.95	19.07
3	16QAM	8	7	19.03	19.02	19.06
3	16QAM	15	0	18.82	18.86	18.88



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	19.93	20.05	20.04
1.4	QPSK	1	3	20.09	20.04	20.09
1.4	QPSK	1	5	20.05	20.03	20.10
1.4	QPSK	3	0	20.25	20.07	20.06
1.4	QPSK	3	1	20.11	20.13	20.10
1.4	QPSK	3	3	20.06	20.09	20.06
1.4	QPSK	6	0	19.18	19.30	19.26
1.4	16QAM	1	0	19.19	19.21	19.23
1.4	16QAM	1	3	19.36	19.31	19.32
1.4	16QAM	1	5	19.32	19.30	19.26
1.4	16QAM	3	0	19.06	19.03	19.06
1.4	16QAM	3	1	19.20	19.25	19.09
1.4	16QAM	3	3	19.15	19.12	19.17
1.4	16QAM	6	0	19.16	19.12	19.14



LTE Band 26						
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	23.16	23.18	23.15
15	QPSK	1	37	23.02	23.09	23.15
15	QPSK	1	74	23.03	23.08	23.10
15	QPSK	36	0	22.47	22.54	22.42
15	QPSK	36	20	22.24	22.29	22.14
15	QPSK	36	39	22.08	22.16	22.22
15	QPSK	75	0	22.09	22.17	22.24
15	16QAM	1	0	22.27	22.30	22.58
15	16QAM	1	37	22.13	22.22	22.36
15	16QAM	1	74	22.07	22.15	22.16
15	16QAM	36	0	22.00	22.12	22.15
15	16QAM	36	20	21.90	22.01	22.16
15	16QAM	36	39	22.00	22.08	22.16
15	16QAM	75	0	22.06	22.18	22.18



LTE Band 26						
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	836.5	844
10	QPSK	1	0	23.06	23.03	23.07
10	QPSK	1	25	22.90	22.98	23.01
10	QPSK	1	49	22.96	22.92	23.00
10	QPSK	25	0	22.03	22.06	22.15
10	QPSK	25	12	21.98	22.00	22.05
10	QPSK	25	25	22.08	22.06	22.12
10	QPSK	50	0	21.88	21.99	22.00
10	16QAM	1	0	22.05	22.02	22.11
10	16QAM	1	25	22.36	22.25	22.37
10	16QAM	1	49	22.07	22.11	22.14
10	16QAM	25	0	22.54	22.55	22.61
10	16QAM	25	12	22.32	22.34	22.43
10	16QAM	25	25	22.06	22.15	22.18
10	16QAM	50	0	22.43	22.34	22.44



LTE Band 26						
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	23.02	23.00	23.06
5	QPSK	1	12	23.05	22.99	23.06
5	QPSK	1	24	23.07	23.07	23.08
5	QPSK	12	0	22.02	22.09	22.13
5	QPSK	12	7	22.16	22.13	22.23
5	QPSK	12	13	22.07	22.06	22.12
5	QPSK	25	0	22.24	22.30	22.31
5	16QAM	1	0	22.11	22.06	22.17
5	16QAM	1	12	21.96	22.02	22.07
5	16QAM	1	24	22.23	22.23	22.30
5	16QAM	12	0	22.29	22.32	22.33
5	16QAM	12	7	22.01	22.06	22.09
5	16QAM	12	13	22.05	22.07	22.14
5	16QAM	25	0	22.08	22.08	22.16



LTE Band 26						
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	23.03	23.06	23.11
3	QPSK	1	8	22.94	22.88	23.00
3	QPSK	1	14	22.97	22.95	23.07
3	QPSK	8	0	22.29	22.26	22.35
3	QPSK	8	4	22.06	22.09	22.12
3	QPSK	8	7	22.24	22.30	22.33
3	QPSK	15	0	22.13	22.16	22.24
3	16QAM	1	0	22.36	22.37	22.40
3	16QAM	1	8	22.30	22.35	22.36
3	16QAM	1	14	22.16	22.23	22.27
3	16QAM	8	0	22.11	22.18	22.21
3	16QAM	8	4	22.15	22.06	22.16
3	16QAM	8	7	22.01	22.10	22.12
3	16QAM	15	0	22.24	22.17	22.25



LTE Band 26						
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	23.04	22.95	23.06
1.4	QPSK	1	3	22.86	22.91	22.98
1.4	QPSK	1	5	22.93	22.86	22.97
1.4	QPSK	3	0	22.92	22.93	22.99
1.4	QPSK	3	1	22.97	22.95	23.05
1.4	QPSK	3	3	22.69	22.66	22.78
1.4	QPSK	6	0	22.24	22.27	22.35
1.4	16QAM	1	0	22.14	22.21	22.22
1.4	16QAM	1	3	22.10	22.07	22.16
1.4	16QAM	1	5	22.17	22.19	22.26
1.4	16QAM	3	0	22.19	22.27	22.30
1.4	16QAM	3	1	22.19	22.10	22.21
1.4	16QAM	3	3	21.92	21.93	22.02
1.4	16QAM	6	0	22.20	22.22	22.29



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	19.09	19.21	19.15
20	QPSK	1	49	19.05	19.14	19.15
20	QPSK	1	99	18.99	19.10	18.95
20	QPSK	50	0	18.05	18.31	18.24
20	QPSK	50	24	18.05	18.08	18.05
20	QPSK	50	50	18.08	18.09	18.15
20	QPSK	100	0	18.05	18.15	18.05
20	16QAM	1	0	18.09	18.08	18.05
20	16QAM	1	49	18.08	18.08	18.05
20	16QAM	1	99	18.15	18.15	18.15
20	16QAM	50	0	18.06	18.08	18.05
20	16QAM	50	24	18.04	18.05	18.05
20	16QAM	50	50	18.10	18.51	18.15
20	16QAM	100	0	18.04	18.50	18.08



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	18.75	19.11	18.97
15	QPSK	1	37	18.74	19.15	19.08
15	QPSK	1	74	18.74	19.08	18.88
15	QPSK	36	0	18.13	18.10	18.91
15	QPSK	36	20	18.18	18.06	18.98
15	QPSK	36	39	18.34	18.05	18.93
15	QPSK	75	0	18.12	18.08	18.90
15	16QAM	1	0	18.06	18.45	18.12
15	16QAM	1	37	18.27	18.02	18.21
15	16QAM	1	74	18.23	17.59	18.14
15	16QAM	36	0	18.10	17.99	18.59
15	16QAM	36	20	18.15	17.95	18.61
15	16QAM	36	39	18.22	18.49	18.37
15	16QAM	75	0	18.13	17.97	17.97



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	18.79	19.08	18.95
10	QPSK	1	25	18.99	18.95	18.90
10	QPSK	1	49	18.76	19.15	18.91
10	QPSK	25	0	18.09	18.40	18.37
10	QPSK	25	12	18.17	18.29	18.37
10	QPSK	25	25	18.21	18.24	18.73
10	QPSK	50	0	18.26	18.32	17.97
10	16QAM	1	0	18.12	18.14	18.17
10	16QAM	1	25	18.30	18.29	18.21
10	16QAM	1	49	18.16	18.21	18.36
10	16QAM	25	0	18.16	18.35	18.02
10	16QAM	25	12	18.29	18.21	17.78
10	16QAM	25	25	18.26	18.33	18.29
10	16QAM	50	0	18.24	18.31	18.05



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	18.83	19.15	18.93
5	QPSK	1	12	18.82	19.02	18.97
5	QPSK	1	24	18.95	19.12	18.98
5	QPSK	12	0	18.18	18.56	18.16
5	QPSK	12	7	18.26	18.41	18.38
5	QPSK	12	13	18.20	18.63	18.44
5	QPSK	25	0	18.23	18.64	18.37
5	16QAM	1	0	18.67	18.65	18.28
5	16QAM	1	12	18.28	18.82	18.18
5	16QAM	1	24	18.14	18.63	18.44
5	16QAM	12	0	18.12	18.29	18.24
5	16QAM	12	7	18.24	18.39	18.37
5	16QAM	12	13	18.30	18.29	18.16
5	16QAM	25	0	18.22	18.37	18.14



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	19.32	19.38	19.36
20	QPSK	1	49	19.17	19.16	19.12
20	QPSK	1	99	19.10	19.09	19.12
20	QPSK	50	0	18.55	18.62	18.58
20	QPSK	50	24	18.24	18.26	18.39
20	QPSK	50	50	18.28	18.36	18.24
20	QPSK	100	0	18.26	18.31	18.18
20	16QAM	1	0	18.31	18.07	18.35
20	16QAM	1	49	18.36	18.10	18.16
20	16QAM	1	99	18.36	18.54	18.33
20	16QAM	50	0	18.48	18.45	18.42
20	16QAM	50	24	18.37	18.37	18.38
20	16QAM	50	50	18.34	18.26	18.22
20	16QAM	100	0	18.30	18.33	18.39



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	19.06	19.10	19.08
15	QPSK	1	37	19.20	19.06	19.04
15	QPSK	1	74	19.04	19.00	18.98
15	QPSK	36	0	18.25	18.22	18.26
15	QPSK	36	20	18.25	18.17	18.27
15	QPSK	36	39	18.11	18.16	18.13
15	QPSK	75	0	18.20	18.24	18.17
15	16QAM	1	0	18.19	18.06	18.36
15	16QAM	1	37	18.06	18.36	18.29
15	16QAM	1	74	18.16	18.06	18.06
15	16QAM	36	0	18.37	18.37	18.28
15	16QAM	36	20	18.40	18.39	18.45
15	16QAM	36	39	18.32	18.47	18.41
15	16QAM	75	0	18.42	18.40	18.36



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	19.04	19.04	19.05
10	QPSK	1	25	18.94	18.92	19.00
10	QPSK	1	49	19.08	18.96	18.86
10	QPSK	25	0	18.51	18.44	18.51
10	QPSK	25	12	18.48	18.67	18.45
10	QPSK	25	25	18.49	18.45	18.37
10	QPSK	50	0	18.57	18.42	18.61
10	16QAM	1	0	18.49	18.49	18.69
10	16QAM	1	25	18.49	18.58	18.70
10	16QAM	1	49	18.32	18.52	18.40
10	16QAM	25	0	18.33	18.50	18.38
10	16QAM	25	12	18.32	18.52	18.43
10	16QAM	25	25	18.23	18.28	18.28
10	16QAM	50	0	18.39	18.43	18.44



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	18.93	18.96	19.01
5	QPSK	1	12	18.96	18.96	18.95
5	QPSK	1	24	19.04	18.94	19.00
5	QPSK	12	0	18.20	18.22	18.18
5	QPSK	12	7	18.22	18.30	18.23
5	QPSK	12	13	18.13	18.19	18.20
5	QPSK	25	0	18.23	18.24	18.23
5	16QAM	1	0	18.72	18.41	18.42
5	16QAM	1	12	18.35	18.64	18.59
5	16QAM	1	24	18.47	18.36	18.71
5	16QAM	12	0	18.36	18.47	18.43
5	16QAM	12	7	18.53	18.45	18.57
5	16QAM	12	13	18.44	18.38	18.45
5	16QAM	25	0	18.45	18.47	18.39



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	19.00	18.91	18.90
3	QPSK	1	8	18.87	18.88	18.96
3	QPSK	1	14	18.78	18.59	18.89
3	QPSK	8	0	18.46	18.43	18.47
3	QPSK	8	4	18.46	18.38	18.48
3	QPSK	8	7	18.32	18.37	18.34
3	QPSK	15	0	18.41	18.45	18.38
3	16QAM	1	0	18.10	18.51	18.27
3	16QAM	1	8	18.43	18.37	18.36
3	16QAM	1	14	18.47	18.36	18.06
3	16QAM	8	0	18.28	18.28	18.19
3	16QAM	8	4	18.31	18.30	18.36
3	16QAM	8	7	18.23	18.38	18.32
3	16QAM	15	0	18.33	18.31	18.27



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	18.94	18.85	18.86
1.4	QPSK	1	3	19.00	19.02	19.02
1.4	QPSK	1	5	18.92	18.80	18.96
1.4	QPSK	3	0	18.91	18.84	18.91
1.4	QPSK	3	1	18.88	18.94	18.85
1.4	QPSK	3	3	18.89	18.85	18.77
1.4	QPSK	6	0	18.49	18.34	18.53
1.4	16QAM	1	0	18.41	18.41	18.61
1.4	16QAM	1	3	18.41	18.50	18.62
1.4	16QAM	1	5	18.24	18.44	18.32
1.4	16QAM	3	0	18.19	18.16	18.42
1.4	16QAM	3	1	18.28	18.18	18.30
1.4	16QAM	3	3	18.29	18.30	18.24
1.4	16QAM	6	0	18.20	18.10	18.20

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

LTE Band 2				Measured E.I.R.P.					
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	20.67	0.117	20.70	0.117	20.64	0.116
20	QPSK	1	49	20.65	0.116	20.59	0.115	20.52	0.113
20	QPSK	1	99	20.59	0.115	20.55	0.114	20.53	0.113
20	QPSK	50	0	19.42	0.087	19.51	0.089	19.44	0.088
20	QPSK	50	24	19.43	0.088	19.48	0.089	19.48	0.089
20	QPSK	50	50	19.48	0.089	19.44	0.088	19.50	0.089
20	QPSK	100	0	19.41	0.087	19.50	0.089	19.46	0.088
20	16QAM	1	0	19.47	0.089	19.47	0.089	19.49	0.089
20	16QAM	1	49	19.31	0.085	19.61	0.091	19.57	0.091
20	16QAM	1	99	19.56	0.090	19.41	0.087	19.81	0.096
20	16QAM	50	0	19.49	0.089	19.46	0.088	19.44	0.088
20	16QAM	50	24	19.45	0.088	19.50	0.089	19.51	0.089
20	16QAM	50	50	19.53	0.090	19.50	0.089	19.57	0.091
20	16QAM	100	0	19.56	0.090	19.57	0.091	19.44	0.088



LTE Band 2				Measured E.I.R.P.					
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	20.48	0.112	20.51	0.112	20.42	0.110
15	QPSK	1	37	20.27	0.106	20.63	0.116	20.51	0.112
15	QPSK	1	74	20.64	0.116	20.56	0.114	20.64	0.116
15	QPSK	36	0	19.28	0.085	19.37	0.086	19.36	0.086
15	QPSK	36	20	19.27	0.085	19.46	0.088	19.43	0.088
15	QPSK	36	39	19.39	0.087	19.40	0.087	19.37	0.086
15	QPSK	75	0	19.31	0.085	19.37	0.086	19.33	0.086
15	16QAM	1	0	19.40	0.087	19.48	0.089	19.42	0.087
15	16QAM	1	37	19.53	0.090	19.56	0.090	19.42	0.087
15	16QAM	1	74	19.48	0.089	19.60	0.091	19.60	0.091
15	16QAM	36	0	19.27	0.085	19.32	0.086	19.35	0.086
15	16QAM	36	20	19.36	0.086	19.29	0.085	19.42	0.087
15	16QAM	36	39	19.41	0.087	19.50	0.089	19.47	0.089
15	16QAM	75	0	19.28	0.085	19.30	0.085	19.39	0.087



LTE Band 2				Measured E.I.R.P.					
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	20.45	0.111	20.31	0.107	20.54	0.113
10	QPSK	1	25	20.56	0.114	20.65	0.116	20.54	0.113
10	QPSK	1	49	20.45	0.111	20.53	0.113	20.45	0.111
10	QPSK	25	0	19.39	0.087	19.40	0.087	19.36	0.086
10	QPSK	25	12	19.35	0.086	19.47	0.089	19.40	0.087
10	QPSK	25	25	19.26	0.084	19.39	0.087	19.35	0.086
10	QPSK	50	0	19.32	0.086	19.41	0.087	19.39	0.087
10	16QAM	1	0	19.80	0.095	19.73	0.094	19.72	0.094
10	16QAM	1	25	19.49	0.089	19.45	0.088	19.52	0.090
10	16QAM	1	49	19.44	0.088	19.52	0.090	19.31	0.085
10	16QAM	25	0	19.34	0.086	19.33	0.086	19.30	0.085
10	16QAM	25	12	19.50	0.089	19.30	0.085	19.30	0.085
10	16QAM	25	25	19.30	0.085	19.50	0.089	19.60	0.091
10	16QAM	50	0	19.42	0.087	19.35	0.086	19.39	0.087



LTE Band 2				Measured E.I.R.P.					
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	20.59	0.115	20.64	0.116	20.58	0.114
5	QPSK	1	12	20.58	0.114	20.53	0.113	20.56	0.114
5	QPSK	1	24	20.54	0.113	20.62	0.115	20.63	0.116
5	QPSK	12	0	19.38	0.087	19.29	0.085	19.36	0.086
5	QPSK	12	7	19.39	0.087	19.44	0.088	19.36	0.086
5	QPSK	12	13	19.38	0.087	19.37	0.086	19.40	0.087
5	QPSK	25	0	19.37	0.086	19.35	0.086	19.37	0.086
5	16QAM	1	0	19.50	0.089	19.40	0.087	19.78	0.095
5	16QAM	1	12	19.48	0.089	19.41	0.087	19.78	0.095
5	16QAM	1	24	19.51	0.089	19.38	0.087	19.77	0.095
5	16QAM	12	0	19.60	0.091	19.74	0.094	19.60	0.091
5	16QAM	12	7	19.50	0.089	19.50	0.089	19.30	0.085
5	16QAM	12	13	19.30	0.085	19.63	0.092	19.40	0.087
5	16QAM	25	0	19.40	0.087	19.41	0.087	19.39	0.087



LTE Band 2				Measured E.I.R.P.					
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	20.53	0.113	20.60	0.115	20.52	0.113
3	QPSK	1	8	20.63	0.116	20.48	0.112	20.49	0.112
3	QPSK	1	14	20.64	0.116	20.51	0.112	20.51	0.112
3	QPSK	8	0	19.26	0.084	19.21	0.083	19.23	0.084
3	QPSK	8	4	19.32	0.086	19.26	0.084	19.27	0.085
3	QPSK	8	7	19.32	0.086	19.26	0.084	19.22	0.084
3	QPSK	15	0	19.24	0.084	19.32	0.086	19.25	0.084
3	16QAM	1	0	19.40	0.087	19.31	0.085	19.25	0.084
3	16QAM	1	8	19.44	0.088	19.38	0.087	19.34	0.086
3	16QAM	1	14	19.37	0.086	19.34	0.086	19.22	0.084
3	16QAM	8	0	19.35	0.086	19.48	0.089	19.40	0.087
3	16QAM	8	4	19.42	0.087	19.39	0.087	19.45	0.088
3	16QAM	8	7	19.32	0.086	19.37	0.086	19.40	0.087
3	16QAM	15	0	19.35	0.086	19.39	0.087	19.34	0.086



LTE Band 2				Measured E.I.R.P.					
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	20.59	0.115	20.62	0.115	20.57	0.114
1.4	QPSK	1	3	20.49	0.112	20.47	0.111	20.46	0.111
1.4	QPSK	1	5	20.46	0.111	20.44	0.111	20.42	0.110
1.4	QPSK	3	0	20.46	0.111	20.46	0.111	20.42	0.110
1.4	QPSK	3	1	20.50	0.112	20.47	0.111	20.45	0.111
1.4	QPSK	3	3	20.52	0.113	20.56	0.114	20.45	0.111
1.4	QPSK	6	0	19.22	0.084	19.20	0.083	19.19	0.083
1.4	16QAM	1	0	19.25	0.084	19.25	0.084	19.19	0.083
1.4	16QAM	1	3	19.21	0.083	19.41	0.087	19.39	0.087
1.4	16QAM	1	5	19.09	0.081	19.29	0.085	18.97	0.079
1.4	16QAM	3	0	19.11	0.081	19.16	0.082	19.13	0.082
1.4	16QAM	3	1	19.29	0.085	19.11	0.081	19.16	0.082
1.4	16QAM	3	3	19.31	0.085	19.28	0.085	19.02	0.080
1.4	16QAM	6	0	19.32	0.086	19.25	0.084	19.20	0.083



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20050		20175		20300	
Frequency (MHz)				1720		1732.5		1745	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	19.54	0.090	19.62	0.092	19.61	0.091
20	QPSK	1	49	19.40	0.087	19.48	0.089	19.47	0.089
20	QPSK	1	99	19.32	0.086	19.45	0.088	19.57	0.091
20	QPSK	50	0	18.61	0.073	18.74	0.075	18.71	0.074
20	QPSK	50	24	18.61	0.073	18.69	0.074	18.69	0.074
20	QPSK	50	50	18.50	0.071	18.61	0.073	18.62	0.073
20	QPSK	100	0	18.60	0.072	18.76	0.075	18.71	0.074
20	16QAM	1	0	18.47	0.070	18.77	0.075	18.64	0.073
20	16QAM	1	49	18.62	0.073	18.39	0.069	18.53	0.071
20	16QAM	1	99	18.41	0.069	18.63	0.073	18.47	0.070
20	16QAM	50	0	18.60	0.072	18.53	0.071	18.67	0.074
20	16QAM	50	24	18.86	0.077	18.97	0.079	18.86	0.077
20	16QAM	50	50	18.82	0.076	18.83	0.076	18.83	0.076
20	16QAM	100	0	18.84	0.077	18.92	0.078	18.93	0.078



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	19.41	0.087	19.45	0.088	19.55	0.090
15	QPSK	1	37	19.45	0.088	19.54	0.090	19.46	0.088
15	QPSK	1	74	19.32	0.086	19.54	0.090	19.57	0.091
15	QPSK	36	0	18.55	0.072	18.62	0.073	18.65	0.073
15	QPSK	36	20	18.59	0.072	18.72	0.074	18.68	0.074
15	QPSK	36	39	18.64	0.073	18.63	0.073	18.72	0.074
15	QPSK	75	0	18.59	0.072	18.61	0.073	18.62	0.073
15	16QAM	1	0	18.53	0.071	18.75	0.075	18.47	0.070
15	16QAM	1	37	18.61	0.073	18.61	0.073	18.45	0.070
15	16QAM	1	74	18.47	0.070	18.77	0.075	18.56	0.072
15	16QAM	36	0	18.48	0.070	18.50	0.071	18.69	0.074
15	16QAM	36	20	18.43	0.070	18.50	0.071	18.56	0.072
15	16QAM	36	39	18.39	0.069	18.48	0.070	18.54	0.071
15	16QAM	75	0	18.50	0.071	18.51	0.071	18.60	0.072



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	19.33	0.086	19.52	0.090	19.35	0.086
10	QPSK	1	25	19.31	0.085	19.44	0.088	19.45	0.088
10	QPSK	1	49	19.39	0.087	19.22	0.084	19.45	0.088
10	QPSK	25	0	18.38	0.069	18.60	0.072	18.62	0.073
10	QPSK	25	12	18.50	0.071	18.56	0.072	18.60	0.072
10	QPSK	25	25	18.39	0.069	18.50	0.071	18.57	0.072
10	QPSK	50	0	18.45	0.070	18.55	0.072	18.47	0.070
10	16QAM	1	0	18.44	0.070	18.59	0.072	18.35	0.068
10	16QAM	1	25	18.71	0.074	18.45	0.070	18.77	0.075
10	16QAM	1	49	18.78	0.076	18.68	0.074	18.67	0.074
10	16QAM	25	0	18.44	0.070	18.43	0.070	18.42	0.070
10	16QAM	25	12	18.36	0.069	18.46	0.070	18.43	0.070
10	16QAM	25	25	18.70	0.074	18.61	0.073	18.70	0.074
10	16QAM	50	0	18.64	0.073	18.68	0.074	18.80	0.076



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19975		20175		20375	
Frequency (MHz)				1712.5		1732.5		1752.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.23	0.084	19.45	0.088	19.50	0.089
5	QPSK	1	12	19.29	0.085	19.44	0.088	19.41	0.087
5	QPSK	1	24	19.24	0.084	19.36	0.086	19.35	0.086
5	QPSK	12	0	18.46	0.070	18.46	0.070	18.50	0.071
5	QPSK	12	7	18.46	0.070	18.57	0.072	18.54	0.071
5	QPSK	12	13	18.41	0.069	18.58	0.072	18.50	0.071
5	QPSK	25	0	18.44	0.070	18.48	0.070	18.54	0.071
5	16QAM	1	0	18.34	0.068	18.75	0.075	18.43	0.070
5	16QAM	1	12	18.45	0.070	18.80	0.076	18.39	0.069
5	16QAM	1	24	18.39	0.069	18.74	0.075	18.34	0.068
5	16QAM	12	0	18.38	0.069	18.32	0.068	18.35	0.068
5	16QAM	12	7	18.41	0.069	18.45	0.070	18.43	0.070
5	16QAM	12	13	18.68	0.074	18.75	0.075	18.79	0.076
5	16QAM	25	0	18.69	0.074	18.80	0.076	18.73	0.075



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	19.35	0.086	19.36	0.086	19.48	0.089
3	QPSK	1	8	19.44	0.088	19.58	0.091	19.52	0.090
3	QPSK	1	14	19.24	0.084	19.43	0.088	19.43	0.088
3	QPSK	8	0	18.44	0.070	18.50	0.071	18.51	0.071
3	QPSK	8	4	18.50	0.071	18.58	0.072	18.60	0.072
3	QPSK	8	7	18.46	0.070	18.56	0.072	18.56	0.072
3	QPSK	15	0	18.46	0.070	18.52	0.071	18.46	0.070
3	16QAM	1	0	18.54	0.071	18.63	0.073	18.67	0.074
3	16QAM	1	8	18.76	0.075	18.76	0.075	18.50	0.071
3	16QAM	1	14	18.67	0.074	18.45	0.070	18.53	0.071
3	16QAM	8	0	18.46	0.070	18.47	0.070	18.56	0.072
3	16QAM	8	4	18.56	0.072	18.56	0.072	18.57	0.072
3	16QAM	8	7	18.78	0.076	18.86	0.077	18.90	0.078
3	16QAM	15	0	18.78	0.076	18.76	0.075	18.83	0.076



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19957		20175		20393	
Frequency (MHz)				1710.7		1732.5		1754.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	19.10	0.081	19.31	0.085	19.32	0.086
1.4	QPSK	1	3	19.44	0.088	19.44	0.088	19.48	0.089
1.4	QPSK	1	5	19.30	0.085	19.39	0.087	19.41	0.087
1.4	QPSK	3	0	19.38	0.087	19.35	0.086	19.34	0.086
1.4	QPSK	3	1	19.34	0.086	19.44	0.088	19.49	0.089
1.4	QPSK	3	3	19.33	0.086	19.40	0.087	19.39	0.087
1.4	QPSK	6	0	18.49	0.071	18.51	0.071	18.47	0.070
1.4	16QAM	1	0	18.43	0.070	18.90	0.078	18.56	0.072
1.4	16QAM	1	3	18.56	0.072	18.64	0.073	18.68	0.074
1.4	16QAM	1	5	18.62	0.073	18.78	0.076	18.58	0.072
1.4	16QAM	3	0	18.65	0.073	18.69	0.074	18.60	0.072
1.4	16QAM	3	1	18.66	0.073	18.69	0.074	18.71	0.074
1.4	16QAM	3	3	18.65	0.073	18.77	0.075	18.66	0.073
1.4	16QAM	6	0	18.56	0.072	18.57	0.072	18.48	0.070



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20450		20525		20600	
Frequency (MHz)				829		836.5		844	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	19.41	0.087	19.45	0.088	19.44	0.088
10	QPSK	1	25	19.27	0.085	19.30	0.085	19.10	0.081
10	QPSK	1	49	19.19	0.083	19.31	0.085	18.99	0.079
10	QPSK	25	0	18.72	0.074	18.74	0.075	18.55	0.072
10	QPSK	25	12	18.48	0.070	18.50	0.071	18.55	0.072
10	QPSK	25	25	18.48	0.070	18.59	0.072	18.64	0.073
10	QPSK	50	0	18.54	0.071	18.67	0.074	18.56	0.072
10	16QAM	1	0	18.58	0.072	18.77	0.075	18.48	0.070
10	16QAM	1	25	18.81	0.076	18.84	0.077	18.52	0.071
10	16QAM	1	49	18.64	0.073	18.70	0.074	18.77	0.075
10	16QAM	25	0	18.73	0.075	18.74	0.075	18.56	0.072
10	16QAM	25	12	18.67	0.074	18.75	0.075	18.53	0.071
10	16QAM	25	25	18.70	0.074	18.63	0.073	18.66	0.073
10	16QAM	50	0	18.71	0.074	18.62	0.073	18.52	0.071



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.36	0.086	19.32	0.086	19.30	0.085
5	QPSK	1	12	19.26	0.084	19.37	0.086	19.21	0.083
5	QPSK	1	24	19.26	0.084	19.21	0.083	19.21	0.083
5	QPSK	12	0	18.63	0.073	18.68	0.074	18.54	0.071
5	QPSK	12	7	18.70	0.074	18.71	0.074	18.63	0.073
5	QPSK	12	13	18.75	0.075	18.59	0.072	18.54	0.071
5	QPSK	25	0	18.66	0.073	18.62	0.073	18.54	0.071
5	16QAM	1	0	18.95	0.079	18.88	0.077	18.64	0.073
5	16QAM	1	12	18.65	0.073	18.87	0.077	18.63	0.073
5	16QAM	1	24	18.52	0.071	18.87	0.077	18.70	0.074
5	16QAM	12	0	18.61	0.073	18.70	0.074	18.69	0.074
5	16QAM	12	7	18.68	0.074	18.71	0.074	18.53	0.071
5	16QAM	12	13	18.68	0.074	18.59	0.072	18.64	0.073
5	16QAM	25	0	18.69	0.074	18.74	0.075	18.69	0.074



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	19.05	0.080	19.36	0.086	19.21	0.083
3	QPSK	1	8	19.31	0.085	19.32	0.086	19.23	0.084
3	QPSK	1	14	19.32	0.086	19.30	0.085	19.04	0.080
3	QPSK	8	0	18.56	0.072	18.69	0.074	18.67	0.074
3	QPSK	8	4	18.70	0.074	18.76	0.075	18.73	0.075
3	QPSK	8	7	18.65	0.073	18.67	0.074	18.54	0.071
3	QPSK	15	0	18.63	0.073	18.69	0.074	18.68	0.074
3	16QAM	1	0	18.65	0.073	18.76	0.075	18.83	0.076
3	16QAM	1	8	18.58	0.072	18.84	0.077	18.68	0.074
3	16QAM	1	14	18.63	0.073	18.89	0.077	18.64	0.073
3	16QAM	8	0	18.59	0.072	18.68	0.074	18.42	0.070
3	16QAM	8	4	18.75	0.075	18.86	0.077	18.43	0.070
3	16QAM	8	7	18.67	0.074	18.73	0.075	18.47	0.070
3	16QAM	15	0	18.61	0.073	18.63	0.073	18.18	0.066



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	19.26	0.084	19.33	0.086	19.37	0.086
1.4	QPSK	1	3	19.39	0.087	19.32	0.086	19.39	0.087
1.4	QPSK	1	5	19.28	0.085	19.22	0.084	19.23	0.084
1.4	QPSK	3	0	19.29	0.085	19.35	0.086	19.31	0.085
1.4	QPSK	3	1	19.35	0.086	19.22	0.084	19.32	0.086
1.4	QPSK	3	3	19.36	0.086	19.28	0.085	19.28	0.085
1.4	QPSK	6	0	18.61	0.073	18.60	0.072	18.59	0.072
1.4	16QAM	1	0	18.74	0.075	18.55	0.072	18.72	0.074
1.4	16QAM	1	3	18.54	0.071	18.78	0.076	18.67	0.074
1.4	16QAM	1	5	18.93	0.078	18.61	0.073	18.67	0.074
1.4	16QAM	3	0	18.46	0.070	18.44	0.070	18.58	0.072
1.4	16QAM	3	1	18.49	0.071	18.76	0.075	18.62	0.073
1.4	16QAM	3	3	18.57	0.072	18.68	0.074	18.56	0.072
1.4	16QAM	6	0	18.76	0.075	18.63	0.073	18.67	0.074



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23060		23095		23130	
Frequency (MHz)				704		707.5		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.58	0.072	18.74	0.075	18.63	0.073
10	QPSK	1	25	18.44	0.070	18.57	0.072	18.60	0.072
10	QPSK	1	49	18.54	0.071	18.55	0.072	18.54	0.071
10	QPSK	25	0	17.83	0.061	17.93	0.062	17.84	0.061
10	QPSK	25	12	17.80	0.060	17.74	0.059	17.53	0.057
10	QPSK	25	25	17.85	0.061	17.91	0.062	17.84	0.061
10	QPSK	50	0	17.86	0.061	17.96	0.063	17.79	0.060
10	16QAM	1	0	17.79	0.060	17.34	0.054	17.47	0.056
10	16QAM	1	25	17.54	0.057	17.49	0.056	17.63	0.058
10	16QAM	1	49	17.63	0.058	17.68	0.059	17.57	0.057
10	16QAM	25	0	17.52	0.056	17.54	0.057	17.48	0.056
10	16QAM	25	12	17.56	0.057	17.60	0.058	17.49	0.056
10	16QAM	25	25	17.61	0.058	17.62	0.058	17.56	0.057
10	16QAM	50	0	17.51	0.056	17.59	0.057	17.64	0.058



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23095		23155	
Frequency (MHz)				701.5		707.5		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.33	0.068	18.66	0.073	18.44	0.070
5	QPSK	1	12	18.49	0.071	18.65	0.073	18.49	0.071
5	QPSK	1	24	18.45	0.070	18.64	0.073	18.50	0.071
5	QPSK	12	0	17.56	0.057	17.63	0.058	17.62	0.058
5	QPSK	12	7	17.67	0.058	17.69	0.059	17.66	0.058
5	QPSK	12	13	17.62	0.058	17.65	0.058	17.62	0.058
5	QPSK	25	0	17.58	0.057	17.70	0.059	17.66	0.058
5	16QAM	1	0	17.59	0.057	17.61	0.058	17.63	0.058
5	16QAM	1	12	17.76	0.060	17.71	0.059	17.72	0.059
5	16QAM	1	24	17.72	0.059	17.70	0.059	17.66	0.058
5	16QAM	12	0	17.46	0.056	17.43	0.055	17.46	0.056
5	16QAM	12	7	17.60	0.058	17.65	0.058	17.49	0.056
5	16QAM	12	13	17.55	0.057	17.52	0.056	17.57	0.057
5	16QAM	25	0	17.56	0.057	17.52	0.056	17.54	0.057



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23025		23095		23165	
Frequency (MHz)				700.5		707.5		714.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	18.41	0.069	18.68	0.074	18.35	0.068
3	QPSK	1	8	18.59	0.072	18.58	0.072	18.48	0.070
3	QPSK	1	14	18.53	0.071	18.64	0.073	18.59	0.072
3	QPSK	8	0	17.64	0.058	17.62	0.058	17.62	0.058
3	QPSK	8	4	17.67	0.058	17.70	0.059	17.71	0.059
3	QPSK	8	7	17.62	0.058	17.70	0.059	17.64	0.058
3	QPSK	15	0	17.40	0.055	17.48	0.056	17.34	0.054
3	16QAM	1	0	17.41	0.055	17.77	0.060	17.36	0.054
3	16QAM	1	8	17.61	0.058	17.59	0.057	17.54	0.057
3	16QAM	1	14	17.44	0.055	17.49	0.056	17.35	0.054
3	16QAM	8	0	17.41	0.055	17.30	0.054	17.33	0.054
3	16QAM	8	4	17.46	0.056	17.43	0.055	17.54	0.057
3	16QAM	8	7	17.30	0.054	17.33	0.054	17.39	0.055
3	16QAM	15	0	17.49	0.056	17.42	0.055	17.41	0.055



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23017		23095		23173	
Frequency (MHz)				699.7		707.5		715.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	18.44	0.070	18.61	0.073	18.41	0.069
1.4	QPSK	1	3	18.55	0.072	18.54	0.071	18.56	0.072
1.4	QPSK	1	5	18.44	0.070	18.49	0.071	18.45	0.070
1.4	QPSK	3	0	18.39	0.069	18.52	0.071	18.50	0.071
1.4	QPSK	3	1	18.60	0.072	18.60	0.072	18.27	0.067
1.4	QPSK	3	3	18.55	0.072	18.57	0.072	18.53	0.071
1.4	QPSK	6	0	17.61	0.058	17.58	0.057	17.56	0.057
1.4	16QAM	1	0	17.65	0.058	17.59	0.057	17.44	0.055
1.4	16QAM	1	3	17.46	0.056	17.89	0.062	17.56	0.057
1.4	16QAM	1	5	17.58	0.057	17.59	0.057	17.58	0.057
1.4	16QAM	3	0	17.42	0.055	17.45	0.056	17.46	0.056
1.4	16QAM	3	1	17.58	0.057	17.66	0.058	17.50	0.056
1.4	16QAM	3	3	17.41	0.055	17.55	0.057	17.55	0.057
1.4	16QAM	6	0	17.34	0.054	17.54	0.057	17.44	0.055



LTE Band 13				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		23230		/	
Frequency (MHz)				/		782		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	18.21	0.066	/	/
10	QPSK	1	25	/	/	18.19	0.066	/	/
10	QPSK	1	49	/	/	18.05	0.064	/	/
10	QPSK	25	0	/	/	17.34	0.054	/	/
10	QPSK	25	12	/	/	17.21	0.053	/	/
10	QPSK	25	25	/	/	17.30	0.054	/	/
10	QPSK	50	0	/	/	17.31	0.054	/	/
10	16QAM	1	0	/	/	17.20	0.052	/	/
10	16QAM	1	25	/	/	17.11	0.051	/	/
10	16QAM	1	49	/	/	17.50	0.056	/	/
10	16QAM	25	0	/	/	17.14	0.052	/	/
10	16QAM	25	12	/	/	17.01	0.050	/	/
10	16QAM	25	25	/	/	17.22	0.053	/	/
10	16QAM	50	0	/	/	17.17	0.052	/	/



LTE Band 13				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23205		23230		23255	
Frequency (MHz)				779.5		782		784.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.03	0.064	18.12	0.065	18.12	0.065
5	QPSK	1	12	18.13	0.065	18.10	0.065	18.14	0.065
5	QPSK	1	24	18.07	0.064	18.14	0.065	18.14	0.065
5	QPSK	12	0	17.06	0.051	17.15	0.052	17.17	0.052
5	QPSK	12	7	17.14	0.052	17.21	0.053	17.16	0.052
5	QPSK	12	13	17.17	0.052	17.20	0.052	17.24	0.053
5	QPSK	25	0	17.23	0.053	17.16	0.052	17.18	0.052
5	16QAM	1	0	17.39	0.055	17.50	0.056	17.57	0.057
5	16QAM	1	12	17.21	0.053	17.32	0.054	17.30	0.054
5	16QAM	1	24	17.25	0.053	17.25	0.053	17.47	0.056
5	16QAM	12	0	17.05	0.051	17.16	0.052	17.18	0.052
5	16QAM	12	7	17.12	0.052	17.15	0.052	17.14	0.052
5	16QAM	12	13	17.18	0.052	17.16	0.052	17.05	0.051
5	16QAM	25	0	17.13	0.052	17.21	0.053	17.13	0.052



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.00	0.063	18.03	0.064	18.00	0.063
10	QPSK	1	25	17.88	0.061	17.84	0.061	17.90	0.062
10	QPSK	1	49	17.81	0.060	17.84	0.061	17.79	0.060
10	QPSK	25	0	17.11	0.051	17.17	0.052	17.09	0.051
10	QPSK	25	12	16.96	0.050	16.90	0.049	17.04	0.051
10	QPSK	25	25	16.94	0.049	16.94	0.049	17.03	0.050
10	QPSK	50	0	17.07	0.051	16.94	0.049	16.95	0.050
10	16QAM	1	0	16.59	0.046	16.78	0.048	16.92	0.049
10	16QAM	1	25	16.80	0.048	17.09	0.051	16.93	0.049
10	16QAM	1	49	16.76	0.047	17.01	0.050	17.06	0.051
10	16QAM	25	0	16.70	0.047	16.94	0.049	16.93	0.049
10	16QAM	25	12	16.76	0.047	16.91	0.049	16.89	0.049
10	16QAM	25	25	16.59	0.046	16.85	0.048	16.90	0.049
10	16QAM	50	0	16.63	0.046	16.92	0.049	16.89	0.049



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23755		23790		23825	
Frequency (MHz)				706.5		710		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	17.94	0.062	17.90	0.062	17.86	0.061
5	QPSK	1	12	17.93	0.062	17.89	0.062	17.88	0.061
5	QPSK	1	24	17.85	0.061	17.91	0.062	17.90	0.062
5	QPSK	12	0	17.01	0.050	17.19	0.052	17.35	0.054
5	QPSK	12	7	17.13	0.052	17.22	0.053	17.30	0.054
5	QPSK	12	13	16.96	0.050	17.24	0.053	17.30	0.054
5	QPSK	25	0	16.78	0.048	16.95	0.050	17.08	0.051
5	16QAM	1	0	17.26	0.053	17.31	0.054	17.03	0.050
5	16QAM	1	12	17.43	0.055	16.99	0.050	17.36	0.054
5	16QAM	1	24	17.27	0.053	17.32	0.054	17.48	0.056
5	16QAM	12	0	16.71	0.047	16.74	0.047	16.95	0.050
5	16QAM	12	7	16.71	0.047	16.78	0.048	16.90	0.049
5	16QAM	12	13	16.62	0.046	16.87	0.049	16.90	0.049
5	16QAM	25	0	16.72	0.047	16.84	0.048	16.88	0.049



LTE Band 25				Measured E.I.R.P.					
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	20.49	0.112	20.51	0.112	20.44	0.111
20	QPSK	1	49	20.44	0.111	20.44	0.111	20.45	0.111
20	QPSK	1	99	20.45	0.111	20.40	0.110	20.50	0.112
20	QPSK	50	0	19.60	0.091	19.61	0.091	19.59	0.091
20	QPSK	50	24	19.45	0.088	19.38	0.087	19.35	0.086
20	QPSK	50	50	19.59	0.091	19.39	0.087	19.38	0.087
20	QPSK	100	0	19.38	0.087	19.45	0.088	19.39	0.087
20	16QAM	1	0	19.55	0.090	19.38	0.087	19.45	0.088
20	16QAM	1	49	19.43	0.088	19.38	0.087	19.33	0.086
20	16QAM	1	99	19.35	0.086	19.45	0.088	19.43	0.088
20	16QAM	50	0	19.45	0.088	19.38	0.087	19.68	0.093
20	16QAM	50	24	19.66	0.092	19.35	0.086	19.45	0.088
20	16QAM	50	50	19.72	0.094	19.81	0.096	19.42	0.087
20	16QAM	100	0	19.65	0.092	19.80	0.095	19.49	0.089



LTE Band 25				Measured E.I.R.P.					
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	20.21	0.105	20.41	0.110	20.28	0.107
15	QPSK	1	37	20.39	0.109	20.45	0.111	20.28	0.107
15	QPSK	1	74	20.37	0.109	20.38	0.109	20.21	0.105
15	QPSK	36	0	19.55	0.090	19.40	0.087	19.60	0.091
15	QPSK	36	20	19.60	0.091	19.36	0.086	19.56	0.090
15	QPSK	36	39	19.63	0.092	19.35	0.086	19.59	0.091
15	QPSK	75	0	19.65	0.092	19.38	0.087	19.62	0.092
15	16QAM	1	0	19.46	0.088	19.75	0.094	19.40	0.087
15	16QAM	1	37	19.63	0.092	19.32	0.086	19.46	0.088
15	16QAM	1	74	19.55	0.090	19.39	0.087	19.30	0.085
15	16QAM	36	0	19.62	0.092	19.29	0.085	19.49	0.089
15	16QAM	36	20	19.56	0.090	19.25	0.084	19.45	0.088
15	16QAM	36	39	19.69	0.093	19.56	0.090	19.49	0.089
15	16QAM	75	0	19.70	0.093	19.27	0.085	19.49	0.089



LTE Band 25				Measured E.I.R.P.					
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	20.30	0.107	20.38	0.109	20.26	0.106
10	QPSK	1	25	20.35	0.108	20.25	0.106	20.21	0.105
10	QPSK	1	49	20.22	0.105	20.45	0.111	20.45	0.111
10	QPSK	25	0	19.60	0.091	19.48	0.089	19.44	0.088
10	QPSK	25	12	19.59	0.091	19.37	0.086	19.44	0.088
10	QPSK	25	25	19.68	0.093	19.32	0.086	19.48	0.089
10	QPSK	50	0	19.72	0.094	19.40	0.087	19.46	0.088
10	16QAM	1	0	19.07	0.081	19.22	0.084	19.47	0.089
10	16QAM	1	25	19.16	0.082	19.37	0.086	19.30	0.085
10	16QAM	1	49	19.12	0.082	19.29	0.085	19.43	0.088
10	16QAM	25	0	19.15	0.082	19.43	0.088	19.61	0.091
10	16QAM	25	12	19.12	0.082	19.29	0.085	19.55	0.090
10	16QAM	25	25	19.19	0.083	19.41	0.087	19.26	0.084
10	16QAM	50	0	19.15	0.082	19.39	0.087	19.57	0.091



LTE Band 25				Measured E.I.R.P.					
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	20.15	0.104	20.38	0.109	20.35	0.108
5	QPSK	1	12	20.30	0.107	20.25	0.106	20.38	0.109
5	QPSK	1	24	20.21	0.105	20.35	0.108	20.08	0.102
5	QPSK	12	0	19.53	0.090	19.57	0.091	19.66	0.092
5	QPSK	12	7	19.66	0.092	19.42	0.087	19.72	0.094
5	QPSK	12	13	19.66	0.092	19.64	0.092	19.78	0.095
5	QPSK	25	0	19.67	0.093	19.65	0.092	19.80	0.095
5	16QAM	1	0	19.50	0.089	19.66	0.092	19.35	0.086
5	16QAM	1	12	19.67	0.093	19.83	0.096	19.51	0.089
5	16QAM	1	24	19.53	0.090	19.64	0.092	19.36	0.086
5	16QAM	12	0	19.30	0.085	19.30	0.085	19.48	0.089
5	16QAM	12	7	19.25	0.084	19.40	0.087	19.59	0.091
5	16QAM	12	13	19.38	0.087	19.30	0.085	19.52	0.090
5	16QAM	25	0	19.36	0.086	18.96	0.079	19.06	0.081



LTE Band 25				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26055		26365		26675	
Frequency (MHz)				1851.5		1882.5		1913.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	20.11	0.103	20.14	0.103	20.12	0.103
3	QPSK	1	8	20.11	0.103	20.13	0.103	20.09	0.102
3	QPSK	1	14	20.10	0.102	20.08	0.102	20.01	0.100
3	QPSK	8	0	18.81	0.076	18.89	0.077	18.98	0.079
3	QPSK	8	4	18.88	0.077	18.87	0.077	18.96	0.079
3	QPSK	8	7	18.80	0.076	18.96	0.079	18.94	0.078
3	QPSK	15	0	18.87	0.077	18.84	0.077	18.94	0.078
3	16QAM	1	0	18.52	0.071	18.88	0.077	18.67	0.074
3	16QAM	1	8	18.58	0.072	18.73	0.075	18.61	0.073
3	16QAM	1	14	18.68	0.074	18.50	0.071	18.51	0.071
3	16QAM	8	0	19.11	0.081	19.08	0.081	19.01	0.080
3	16QAM	8	4	19.12	0.082	19.01	0.080	19.13	0.082
3	16QAM	8	7	19.09	0.081	19.08	0.081	19.12	0.082
3	16QAM	15	0	18.88	0.077	18.92	0.078	18.94	0.078



LTE Band 25				Measured E.I.R.P.					
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	19.99	0.100	20.11	0.103	20.10	0.102
1.4	QPSK	1	3	20.15	0.104	20.10	0.102	20.15	0.104
1.4	QPSK	1	5	20.11	0.103	20.09	0.102	20.16	0.104
1.4	QPSK	3	0	20.31	0.107	20.13	0.103	20.12	0.103
1.4	QPSK	3	1	20.17	0.104	20.19	0.104	20.16	0.104
1.4	QPSK	3	3	20.12	0.103	20.15	0.104	20.12	0.103
1.4	QPSK	6	0	19.24	0.084	19.36	0.086	19.32	0.086
1.4	16QAM	1	0	19.25	0.084	19.27	0.085	19.29	0.085
1.4	16QAM	1	3	19.42	0.087	19.37	0.086	19.38	0.087
1.4	16QAM	1	5	19.38	0.087	19.36	0.086	19.32	0.086
1.4	16QAM	3	0	19.12	0.082	19.09	0.081	19.12	0.082
1.4	16QAM	3	1	19.26	0.084	19.31	0.085	19.15	0.082
1.4	16QAM	3	3	19.21	0.083	19.18	0.083	19.23	0.084
1.4	16QAM	6	0	19.22	0.084	19.18	0.083	19.20	0.083



LTE Band 26				Measured E.I.R.P.					
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	18.53	0.071	18.55	0.072	18.52	0.071
15	QPSK	1	37	18.39	0.069	18.46	0.070	18.52	0.071
15	QPSK	1	74	18.40	0.069	18.45	0.070	18.47	0.070
15	QPSK	36	0	17.84	0.061	17.91	0.062	17.79	0.060
15	QPSK	36	20	17.61	0.058	17.66	0.058	17.51	0.056
15	QPSK	36	39	17.45	0.056	17.53	0.057	17.59	0.057
15	QPSK	75	0	17.46	0.056	17.54	0.057	17.61	0.058
15	16QAM	1	0	17.64	0.058	17.67	0.058	17.95	0.062
15	16QAM	1	37	17.50	0.056	17.59	0.057	17.73	0.059
15	16QAM	1	74	17.44	0.055	17.52	0.056	17.53	0.057
15	16QAM	36	0	17.37	0.055	17.49	0.056	17.52	0.056
15	16QAM	36	20	17.27	0.053	17.38	0.055	17.53	0.057
15	16QAM	36	39	17.37	0.055	17.45	0.056	17.53	0.057
15	16QAM	75	0	17.43	0.055	17.55	0.057	17.55	0.057



LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20450		20525		20600	
Frequency (MHz)				829		836.5		844	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.43	0.070	18.40	0.069	18.44	0.070
10	QPSK	1	25	18.27	0.067	18.35	0.068	18.38	0.069
10	QPSK	1	49	18.33	0.068	18.29	0.067	18.37	0.069
10	QPSK	25	0	17.40	0.055	17.43	0.055	17.52	0.056
10	QPSK	25	12	17.35	0.054	17.37	0.055	17.42	0.055
10	QPSK	25	25	17.45	0.056	17.43	0.055	17.49	0.056
10	QPSK	50	0	17.25	0.053	17.36	0.054	17.37	0.055
10	16QAM	1	0	17.42	0.055	17.39	0.055	17.48	0.056
10	16QAM	1	25	17.73	0.059	17.62	0.058	17.74	0.059
10	16QAM	1	49	17.44	0.055	17.48	0.056	17.51	0.056
10	16QAM	25	0	17.91	0.062	17.92	0.062	17.98	0.063
10	16QAM	25	12	17.69	0.059	17.71	0.059	17.80	0.060
10	16QAM	25	25	17.43	0.055	17.52	0.056	17.55	0.057
10	16QAM	50	0	17.80	0.060	17.71	0.059	17.81	0.060



LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.39	0.069	18.37	0.069	18.43	0.070
5	QPSK	1	12	18.42	0.070	18.36	0.069	18.43	0.070
5	QPSK	1	24	18.44	0.070	18.44	0.070	18.45	0.070
5	QPSK	12	0	17.39	0.055	17.46	0.056	17.50	0.056
5	QPSK	12	7	17.53	0.057	17.50	0.056	17.60	0.058
5	QPSK	12	13	17.44	0.055	17.43	0.055	17.49	0.056
5	QPSK	25	0	17.61	0.058	17.67	0.058	17.68	0.059
5	16QAM	1	0	17.48	0.056	17.43	0.055	17.54	0.057
5	16QAM	1	12	17.33	0.054	17.39	0.055	17.44	0.055
5	16QAM	1	24	17.60	0.058	17.60	0.058	17.67	0.058
5	16QAM	12	0	17.66	0.058	17.69	0.059	17.70	0.059
5	16QAM	12	7	17.38	0.055	17.43	0.055	17.46	0.056
5	16QAM	12	13	17.42	0.055	17.44	0.055	17.51	0.056
5	16QAM	25	0	17.45	0.056	17.45	0.056	17.53	0.057



LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	18.40	0.069	18.43	0.070	18.48	0.070
3	QPSK	1	8	18.31	0.068	18.25	0.067	18.37	0.069
3	QPSK	1	14	18.34	0.068	18.32	0.068	18.44	0.070
3	QPSK	8	0	17.66	0.058	17.63	0.058	17.72	0.059
3	QPSK	8	4	17.43	0.055	17.46	0.056	17.49	0.056
3	QPSK	8	7	17.61	0.058	17.67	0.058	17.70	0.059
3	QPSK	15	0	17.50	0.056	17.53	0.057	17.61	0.058
3	16QAM	1	0	17.73	0.059	17.74	0.059	17.77	0.060
3	16QAM	1	8	17.67	0.058	17.72	0.059	17.73	0.059
3	16QAM	1	14	17.53	0.057	17.60	0.058	17.64	0.058
3	16QAM	8	0	17.48	0.056	17.55	0.057	17.58	0.057
3	16QAM	8	4	17.52	0.056	17.43	0.055	17.53	0.057
3	16QAM	8	7	17.38	0.055	17.47	0.056	17.49	0.056
3	16QAM	15	0	17.61	0.058	17.54	0.057	17.62	0.058



LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	18.41	0.069	18.32	0.068	18.43	0.070
1.4	QPSK	1	3	18.23	0.067	18.28	0.067	18.35	0.068
1.4	QPSK	1	5	18.30	0.068	18.23	0.067	18.34	0.068
1.4	QPSK	3	0	18.29	0.067	18.30	0.068	18.36	0.069
1.4	QPSK	3	1	18.34	0.068	18.32	0.068	18.42	0.070
1.4	QPSK	3	3	18.06	0.064	18.03	0.064	18.15	0.065
1.4	QPSK	6	0	17.61	0.058	17.64	0.058	17.72	0.059
1.4	16QAM	1	0	17.51	0.056	17.58	0.057	17.59	0.057
1.4	16QAM	1	3	17.47	0.056	17.44	0.055	17.53	0.057
1.4	16QAM	1	5	17.54	0.057	17.56	0.057	17.63	0.058
1.4	16QAM	3	0	17.56	0.057	17.64	0.058	17.67	0.058
1.4	16QAM	3	1	17.56	0.057	17.47	0.056	17.58	0.057
1.4	16QAM	3	3	17.29	0.054	17.30	0.054	17.39	0.055
1.4	16QAM	6	0	17.57	0.057	17.59	0.057	17.66	0.058



LTE Band 41				Measured E.I.R.P.					
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	20.78	0.120	20.90	0.123	20.84	0.121
20	QPSK	1	49	20.74	0.119	20.83	0.121	20.84	0.121
20	QPSK	1	99	20.68	0.117	20.79	0.120	20.64	0.116
20	QPSK	50	0	19.74	0.094	20.00	0.100	19.93	0.098
20	QPSK	50	24	19.74	0.094	19.77	0.095	19.74	0.094
20	QPSK	50	50	19.77	0.095	19.78	0.095	19.84	0.096
20	QPSK	100	0	19.74	0.094	19.84	0.096	19.74	0.094
20	16QAM	1	0	19.78	0.095	19.77	0.095	19.74	0.094
20	16QAM	1	49	19.77	0.095	19.77	0.095	19.74	0.094
20	16QAM	1	99	19.84	0.096	19.84	0.096	19.84	0.096
20	16QAM	50	0	19.75	0.094	19.77	0.095	19.74	0.094
20	16QAM	50	24	19.73	0.094	19.74	0.094	19.74	0.094
20	16QAM	50	50	19.79	0.095	20.20	0.105	19.84	0.096
20	16QAM	100	0	19.73	0.094	20.19	0.104	19.77	0.095



LTE Band 41				Measured E.I.R.P.					
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	20.44	0.111	20.80	0.120	20.66	0.116
15	QPSK	1	37	20.43	0.110	20.84	0.121	20.77	0.119
15	QPSK	1	74	20.43	0.110	20.77	0.119	20.57	0.114
15	QPSK	36	0	19.82	0.096	19.79	0.095	20.60	0.115
15	QPSK	36	20	19.87	0.097	19.75	0.094	20.67	0.117
15	QPSK	36	39	20.03	0.101	19.74	0.094	20.62	0.115
15	QPSK	75	0	19.81	0.096	19.77	0.095	20.59	0.115
15	16QAM	1	0	19.75	0.094	20.14	0.103	19.81	0.096
15	16QAM	1	37	19.96	0.099	19.71	0.094	19.90	0.098
15	16QAM	1	74	19.92	0.098	19.28	0.085	19.83	0.096
15	16QAM	36	0	19.79	0.095	19.68	0.093	20.28	0.107
15	16QAM	36	20	19.84	0.096	19.64	0.092	20.30	0.107
15	16QAM	36	39	19.91	0.098	20.18	0.104	20.06	0.101
15	16QAM	75	0	19.82	0.096	19.66	0.092	19.66	0.092



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39700		40620		41540	
Frequency (MHz)				2501		2593		2685	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	20.48	0.112	20.77	0.119	20.64	0.116
10	QPSK	1	25	20.68	0.117	20.64	0.116	20.59	0.115
10	QPSK	1	49	20.45	0.111	20.84	0.121	20.60	0.115
10	QPSK	25	0	19.78	0.095	20.09	0.102	20.06	0.101
10	QPSK	25	12	19.86	0.097	19.98	0.100	20.06	0.101
10	QPSK	25	25	19.90	0.098	19.93	0.098	20.42	0.110
10	QPSK	50	0	19.95	0.099	20.01	0.100	19.66	0.092
10	16QAM	1	0	19.81	0.096	19.83	0.096	19.86	0.097
10	16QAM	1	25	19.99	0.100	19.98	0.100	19.90	0.098
10	16QAM	1	49	19.85	0.097	19.90	0.098	20.05	0.101
10	16QAM	25	0	19.85	0.097	20.04	0.101	19.71	0.094
10	16QAM	25	12	19.98	0.100	19.90	0.098	19.47	0.089
10	16QAM	25	25	19.95	0.099	20.02	0.100	19.98	0.100
10	16QAM	50	0	19.93	0.098	20.00	0.100	19.74	0.094



LTE Band 41				Measured E.I.R.P.					
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	20.52	0.113	20.84	0.121	20.62	0.115
5	QPSK	1	12	20.51	0.112	20.71	0.118	20.66	0.116
5	QPSK	1	24	20.64	0.116	20.81	0.121	20.67	0.117
5	QPSK	12	0	19.87	0.097	20.25	0.106	19.85	0.097
5	QPSK	12	7	19.95	0.099	20.10	0.102	20.07	0.102
5	QPSK	12	13	19.89	0.097	20.32	0.108	20.13	0.103
5	QPSK	25	0	19.92	0.098	20.33	0.108	20.06	0.101
5	16QAM	1	0	20.36	0.109	20.34	0.108	19.97	0.099
5	16QAM	1	12	19.97	0.099	20.51	0.112	19.87	0.097
5	16QAM	1	24	19.83	0.096	20.32	0.108	20.13	0.103
5	16QAM	12	0	19.81	0.096	19.98	0.100	19.93	0.098
5	16QAM	12	7	19.93	0.098	20.08	0.102	20.06	0.101
5	16QAM	12	13	19.99	0.100	19.98	0.100	19.85	0.097
5	16QAM	25	0	19.91	0.098	20.06	0.101	19.83	0.096



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132072		132322		132572	
Frequency (MHz)				1720		1745		1770	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	19.60	0.091	19.66	0.092	19.64	0.092
20	QPSK	1	49	19.45	0.088	19.44	0.088	19.40	0.087
20	QPSK	1	99	19.38	0.087	19.37	0.086	19.40	0.087
20	QPSK	50	0	18.83	0.076	18.90	0.078	18.86	0.077
20	QPSK	50	24	18.52	0.071	18.54	0.071	18.67	0.074
20	QPSK	50	50	18.56	0.072	18.64	0.073	18.52	0.071
20	QPSK	100	0	18.54	0.071	18.59	0.072	18.46	0.070
20	16QAM	1	0	18.59	0.072	18.35	0.068	18.63	0.073
20	16QAM	1	49	18.64	0.073	18.38	0.069	18.44	0.070
20	16QAM	1	99	18.64	0.073	18.82	0.076	18.61	0.073
20	16QAM	50	0	18.76	0.075	18.73	0.075	18.70	0.074
20	16QAM	50	24	18.65	0.073	18.65	0.073	18.66	0.073
20	16QAM	50	50	18.62	0.073	18.54	0.071	18.50	0.071
20	16QAM	100	0	18.58	0.072	18.61	0.073	18.67	0.074



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132047		132322		132597	
Frequency (MHz)				1717.5		1745		1772.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	19.34	0.086	19.38	0.087	19.36	0.086
15	QPSK	1	37	19.48	0.089	19.34	0.086	19.32	0.086
15	QPSK	1	74	19.32	0.086	19.28	0.085	19.26	0.084
15	QPSK	36	0	18.53	0.071	18.50	0.071	18.54	0.071
15	QPSK	36	20	18.53	0.071	18.45	0.070	18.55	0.072
15	QPSK	36	39	18.39	0.069	18.44	0.070	18.41	0.069
15	QPSK	75	0	18.48	0.070	18.52	0.071	18.45	0.070
15	16QAM	1	0	18.47	0.070	18.34	0.068	18.64	0.073
15	16QAM	1	37	18.34	0.068	18.64	0.073	18.57	0.072
15	16QAM	1	74	18.44	0.070	18.34	0.068	18.34	0.068
15	16QAM	36	0	18.65	0.073	18.65	0.073	18.56	0.072
15	16QAM	36	20	18.68	0.074	18.67	0.074	18.73	0.075
15	16QAM	36	39	18.60	0.072	18.75	0.075	18.69	0.074
15	16QAM	75	0	18.70	0.074	18.68	0.074	18.64	0.073



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132022		132322		132622	
Frequency (MHz)				1715		1745		1775	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	19.32	0.086	19.32	0.086	19.33	0.086
10	QPSK	1	25	19.22	0.084	19.20	0.083	19.28	0.085
10	QPSK	1	49	19.36	0.086	19.24	0.084	19.14	0.082
10	QPSK	25	0	18.79	0.076	18.72	0.074	18.79	0.076
10	QPSK	25	12	18.76	0.075	18.95	0.079	18.73	0.075
10	QPSK	25	25	18.77	0.075	18.73	0.075	18.65	0.073
10	QPSK	50	0	18.85	0.077	18.70	0.074	18.89	0.077
10	16QAM	1	0	18.77	0.075	18.77	0.075	18.97	0.079
10	16QAM	1	25	18.77	0.075	18.86	0.077	18.98	0.079
10	16QAM	1	49	18.60	0.072	18.80	0.076	18.68	0.074
10	16QAM	25	0	18.61	0.073	18.78	0.076	18.66	0.073
10	16QAM	25	12	18.60	0.072	18.80	0.076	18.71	0.074
10	16QAM	25	25	18.51	0.071	18.56	0.072	18.56	0.072
10	16QAM	50	0	18.67	0.074	18.71	0.074	18.72	0.074



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131997		132322		132647	
Frequency (MHz)				1712.5		1745		1777.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.21	0.083	19.24	0.084	19.29	0.085
5	QPSK	1	12	19.24	0.084	19.24	0.084	19.23	0.084
5	QPSK	1	24	19.32	0.086	19.22	0.084	19.28	0.085
5	QPSK	12	0	18.48	0.070	18.50	0.071	18.46	0.070
5	QPSK	12	7	18.50	0.071	18.58	0.072	18.51	0.071
5	QPSK	12	13	18.41	0.069	18.47	0.070	18.48	0.070
5	QPSK	25	0	18.51	0.071	18.52	0.071	18.51	0.071
5	16QAM	1	0	19.00	0.079	18.69	0.074	18.70	0.074
5	16QAM	1	12	18.63	0.073	18.92	0.078	18.87	0.077
5	16QAM	1	24	18.75	0.075	18.64	0.073	18.99	0.079
5	16QAM	12	0	18.64	0.073	18.75	0.075	18.71	0.074
5	16QAM	12	7	18.81	0.076	18.73	0.075	18.85	0.077
5	16QAM	12	13	18.72	0.074	18.66	0.073	18.73	0.075
5	16QAM	25	0	18.73	0.075	18.75	0.075	18.67	0.074



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131987		132322		132657	
Frequency (MHz)				1711.5		1745		1778.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	19.28	0.085	19.19	0.083	19.18	0.083
3	QPSK	1	8	19.15	0.082	19.16	0.082	19.24	0.084
3	QPSK	1	14	19.06	0.081	18.87	0.077	19.17	0.083
3	QPSK	8	0	18.74	0.075	18.71	0.074	18.75	0.075
3	QPSK	8	4	18.74	0.075	18.66	0.073	18.76	0.075
3	QPSK	8	7	18.60	0.072	18.65	0.073	18.62	0.073
3	QPSK	15	0	18.69	0.074	18.73	0.075	18.66	0.073
3	16QAM	1	0	18.38	0.069	18.79	0.076	18.55	0.072
3	16QAM	1	8	18.71	0.074	18.65	0.073	18.64	0.073
3	16QAM	1	14	18.75	0.075	18.64	0.073	18.34	0.068
3	16QAM	8	0	18.56	0.072	18.56	0.072	18.47	0.070
3	16QAM	8	4	18.59	0.072	18.58	0.072	18.64	0.073
3	16QAM	8	7	18.51	0.071	18.66	0.073	18.60	0.072
3	16QAM	15	0	18.61	0.073	18.59	0.072	18.55	0.072



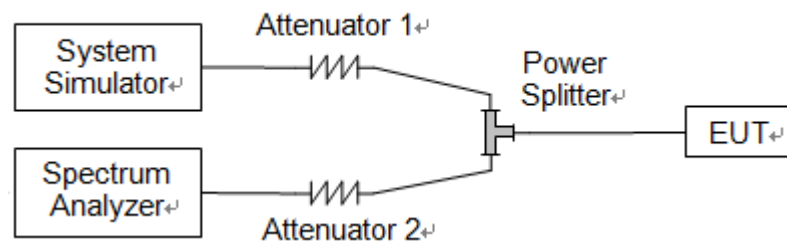
LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.7		1745		1779.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	19.22	0.084	19.13	0.082	19.14	0.082
1.4	QPSK	1	3	19.28	0.085	19.30	0.085	19.30	0.085
1.4	QPSK	1	5	19.20	0.083	19.08	0.081	19.24	0.084
1.4	QPSK	3	0	19.19	0.083	19.12	0.082	19.19	0.083
1.4	QPSK	3	1	19.16	0.082	19.22	0.084	19.13	0.082
1.4	QPSK	3	3	19.17	0.083	19.13	0.082	19.05	0.080
1.4	QPSK	6	0	18.77	0.075	18.62	0.073	18.81	0.076
1.4	16QAM	1	0	18.69	0.074	18.69	0.074	18.89	0.077
1.4	16QAM	1	3	18.69	0.074	18.78	0.076	18.90	0.078
1.4	16QAM	1	5	18.52	0.071	18.72	0.074	18.60	0.072
1.4	16QAM	3	0	18.47	0.070	18.44	0.070	18.70	0.074
1.4	16QAM	3	1	18.56	0.072	18.46	0.070	18.58	0.072
1.4	16QAM	3	3	18.57	0.072	18.58	0.072	18.52	0.071
1.4	16QAM	6	0	18.48	0.070	18.38	0.069	18.48	0.070

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 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



LTE Band 2				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.30
	Low	16QAM	1.10	1.29
	Mid	QPSK	1.10	1.29
	Mid	16QAM	1.10	1.28
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.29
3	Low	QPSK	2.70	2.98
	Low	16QAM	2.70	2.99
	Mid	QPSK	2.70	2.98
	Mid	16QAM	2.71	2.99
	High	QPSK	2.70	2.99
	High	16QAM	2.70	3.00
5	Low	QPSK	4.50	5.02
	Low	16QAM	4.50	5.02
	Mid	QPSK	4.50	5.02
	Mid	16QAM	4.51	4.96
	High	QPSK	4.51	5.05
	High	16QAM	4.50	4.95
10	Low	QPSK	8.96	9.80
	Low	16QAM	8.96	9.82
	Mid	QPSK	8.98	9.85
	Mid	16QAM	8.95	9.82
	High	QPSK	9.00	9.87
	High	16QAM	8.94	9.80
15	Low	QPSK	13.45	14.58
	Low	16QAM	13.42	14.62
	Mid	QPSK	13.46	14.69
	Mid	16QAM	13.44	14.56
	High	QPSK	13.46	14.52
	High	16QAM	13.44	14.64
20	Low	QPSK	17.89	19.46
	Low	16QAM	17.88	19.39
	Mid	QPSK	17.91	19.44
	Mid	16QAM	17.93	19.46
	High	QPSK	17.90	19.52
	High	16QAM	17.91	19.49



LTE Band 4				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.29
	Low	16QAM	1.10	1.28
	Mid	QPSK	1.10	1.32
	Mid	16QAM	1.11	1.35
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.30
3	Low	QPSK	2.70	2.96
	Low	16QAM	2.70	3.00
	Mid	QPSK	2.71	3.01
	Mid	16QAM	2.71	3.00
	High	QPSK	2.70	2.98
	High	16QAM	2.70	2.98
5	Low	QPSK	4.51	5.03
	Low	16QAM	4.51	4.99
	Mid	QPSK	4.52	5.07
	Mid	16QAM	4.51	5.04
	High	QPSK	4.50	5.08
	High	16QAM	4.51	5.02
10	Low	QPSK	8.96	9.72
	Low	16QAM	8.94	9.86
	Mid	QPSK	9.01	9.95
	Mid	16QAM	8.96	9.86
	High	QPSK	9.00	9.82
	High	16QAM	8.96	9.86
15	Low	QPSK	13.44	14.67
	Low	16QAM	13.43	14.78
	Mid	QPSK	13.45	14.89
	Mid	16QAM	13.45	14.77
	High	QPSK	13.45	14.74
	High	16QAM	13.45	14.59
20	Low	QPSK	17.89	19.50
	Low	16QAM	17.90	19.46
	Mid	QPSK	17.92	19.53
	Mid	16QAM	17.91	19.60
	High	QPSK	17.95	19.50
	High	16QAM	17.92	19.60



LTE Band 5				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.27
	Low	16QAM	1.10	1.28
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.27
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.30
3	Low	QPSK	2.70	2.97
	Low	16QAM	2.70	2.98
	Mid	QPSK	2.70	2.96
	Mid	16QAM	2.71	3.00
	High	QPSK	2.70	3.01
	High	16QAM	2.70	2.98
5	Low	QPSK	4.49	5.04
	Low	16QAM	4.50	4.98
	Mid	QPSK	4.50	5.05
	Mid	16QAM	4.50	4.97
	High	QPSK	4.51	5.02
	High	16QAM	4.50	4.98
10	Low	QPSK	8.98	9.88
	Low	16QAM	8.96	9.76
	Mid	QPSK	8.98	9.83
	Mid	16QAM	8.96	9.81
	High	QPSK	8.97	9.79
	High	16QAM	8.95	9.73



LTE Band 12				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.29
	Low	16QAM	1.10	1.30
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.28
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.29
3	Low	QPSK	2.70	2.98
	Low	16QAM	2.70	3.00
	Mid	QPSK	2.70	2.96
	Mid	16QAM	2.70	2.98
	High	QPSK	2.70	2.97
	High	16QAM	2.70	2.99
5	Low	QPSK	4.49	5.04
	Low	16QAM	4.50	5.01
	Mid	QPSK	4.50	5.03
	Mid	16QAM	4.51	5.00
	High	QPSK	4.51	5.00
	High	16QAM	4.50	4.97
10	Low	QPSK	8.96	9.86
	Low	16QAM	8.95	9.68
	Mid	QPSK	8.98	9.85
	Mid	16QAM	8.93	9.75
	High	QPSK	8.96	9.86
	High	16QAM	8.94	9.77



LTE Band 13				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.98
	Low	16QAM	4.50	5.03
	Mid	QPSK	4.50	5.06
	Mid	16QAM	4.50	5.01
	High	QPSK	4.50	5.05
	High	16QAM	4.51	4.96
10	Low	QPSK	/	/
	Low	16QAM	/	/
	Mid	QPSK	8.97	9.84
	Mid	16QAM	8.93	9.79
	High	QPSK	/	/
	High	16QAM	/	/



LTE Band 17				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	5.03
	Low	16QAM	4.51	4.99
	Mid	QPSK	4.51	5.00
	Mid	16QAM	4.50	4.97
	High	QPSK	4.50	5.03
	High	16QAM	4.50	5.03
10	Low	QPSK	8.96	9.82
	Low	16QAM	8.94	9.86
	Mid	QPSK	8.99	9.84
	Mid	16QAM	8.95	9.74
	High	QPSK	8.97	9.89
	High	16QAM	8.95	9.74



LTE Band 25				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.27
	Low	16QAM	1.10	1.28
	Mid	QPSK	1.09	1.28
	Mid	16QAM	1.10	1.29
	High	QPSK	1.10	1.30
	High	16QAM	1.10	1.29
3	Low	QPSK	2.70	2.98
	Low	16QAM	2.70	3.00
	Mid	QPSK	2.70	2.98
	Mid	16QAM	2.70	2.91
	High	QPSK	2.70	3.01
	High	16QAM	2.70	2.99
5	Low	QPSK	4.50	5.01
	Low	16QAM	4.51	4.99
	Mid	QPSK	4.50	5.04
	Mid	16QAM	4.50	4.96
	High	QPSK	4.51	4.98
	High	16QAM	4.50	5.01
10	Low	QPSK	8.97	9.88
	Low	16QAM	8.96	9.86
	Mid	QPSK	8.97	9.82
	Mid	16QAM	8.94	9.80
	High	QPSK	8.96	9.79
	High	16QAM	8.95	9.80
15	Low	QPSK	13.45	14.65
	Low	16QAM	13.43	14.68
	Mid	QPSK	13.47	14.76
	Mid	16QAM	13.45	14.65
	High	QPSK	13.38	14.63
	High	16QAM	13.42	14.50
20	Low	QPSK	17.92	19.45
	Low	16QAM	17.93	19.40
	Mid	QPSK	17.90	19.50
	Mid	16QAM	17.92	19.43
	High	QPSK	17.88	19.28
	High	16QAM	17.84	19.45



LTE Band 26				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.28
	Low	16QAM	1.10	1.30
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.30
	High	QPSK	1.10	1.29
	High	16QAM	1.10	1.32
3	Low	QPSK	2.70	2.97
	Low	16QAM	2.71	3.00
	Mid	QPSK	2.70	2.97
	Mid	16QAM	2.70	2.98
	High	QPSK	2.70	3.01
	High	16QAM	2.70	3.00
5	Low	QPSK	4.51	5.02
	Low	16QAM	4.50	5.01
	Mid	QPSK	4.50	5.04
	Mid	16QAM	4.51	5.01
	High	QPSK	4.50	5.02
	High	16QAM	4.50	4.99
10	Low	QPSK	8.96	9.83
	Low	16QAM	8.95	9.79
	Mid	QPSK	8.97	9.85
	Mid	16QAM	8.94	9.77
	High	QPSK	8.97	9.80
	High	16QAM	8.93	9.74
15	Low	QPSK	13.41	14.67
	Low	16QAM	13.43	14.71
	Mid	QPSK	13.44	14.56
	Mid	16QAM	13.45	14.77
	High	QPSK	13.39	14.63
	High	16QAM	13.41	14.64

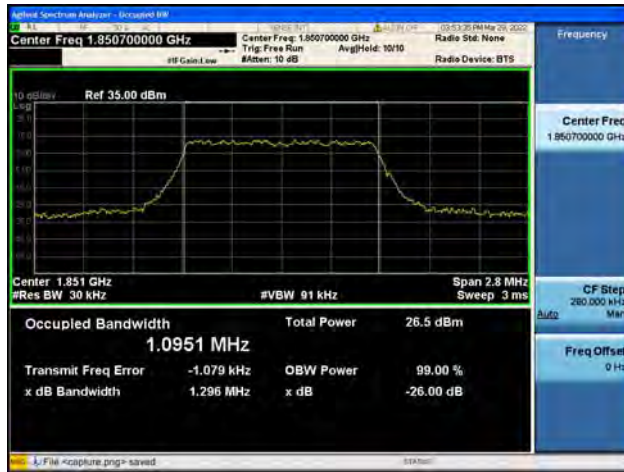


LTE Band 41				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	5.58
	Low	16QAM	4.52	5.31
	Mid	QPSK	4.52	5.37
	Mid	16QAM	4.52	5.01
	High	QPSK	4.51	5.82
	High	16QAM	4.51	5.23
10	Low	QPSK	8.98	11.55
	Low	16QAM	8.98	10.95
	Mid	QPSK	8.99	11.43
	Mid	16QAM	8.97	10.09
	High	QPSK	8.99	11.02
	High	16QAM	8.97	10.79
15	Low	QPSK	13.45	14.66
	Low	16QAM	13.41	14.82
	Mid	QPSK	13.48	14.96
	Mid	16QAM	13.45	14.80
	High	QPSK	13.41	15.04
	High	16QAM	13.47	14.69
20	Low	QPSK	17.90	19.70
	Low	16QAM	17.87	19.82
	Mid	QPSK	17.94	20.08
	Mid	16QAM	17.95	20.28
	High	QPSK	17.87	19.90
	High	16QAM	17.91	19.50

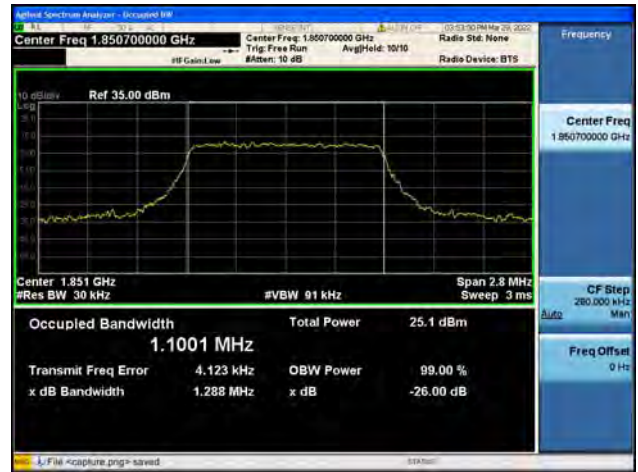


LTE Band 66				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.27
	Low	16QAM	1.10	1.28
	Mid	QPSK	1.10	1.29
	Mid	16QAM	1.10	1.30
	High	QPSK	1.10	1.29
	High	16QAM	1.10	1.28
3	Low	QPSK	2.70	2.98
	Low	16QAM	2.70	2.99
	Mid	QPSK	2.71	3.00
	Mid	16QAM	2.71	2.99
	High	QPSK	2.70	3.00
	High	16QAM	2.71	2.99
5	Low	QPSK	4.51	5.03
	Low	16QAM	4.50	4.96
	Mid	QPSK	4.51	5.04
	Mid	16QAM	4.51	4.99
	High	QPSK	4.51	5.03
	High	16QAM	4.50	5.00
10	Low	QPSK	8.98	9.91
	Low	16QAM	8.95	9.80
	Mid	QPSK	8.99	9.80
	Mid	16QAM	8.94	9.82
	High	QPSK	8.98	9.81
	High	16QAM	8.93	9.79
15	Low	QPSK	13.41	14.64
	Low	16QAM	13.41	14.60
	Mid	QPSK	13.42	14.68
	Mid	16QAM	13.44	14.80
	High	QPSK	13.44	14.61
	High	16QAM	13.43	14.84
20	Low	QPSK	17.89	19.38
	Low	16QAM	17.89	19.40
	Mid	QPSK	17.93	19.48
	Mid	16QAM	17.90	19.45
	High	QPSK	17.88	19.48
	High	16QAM	17.92	19.52

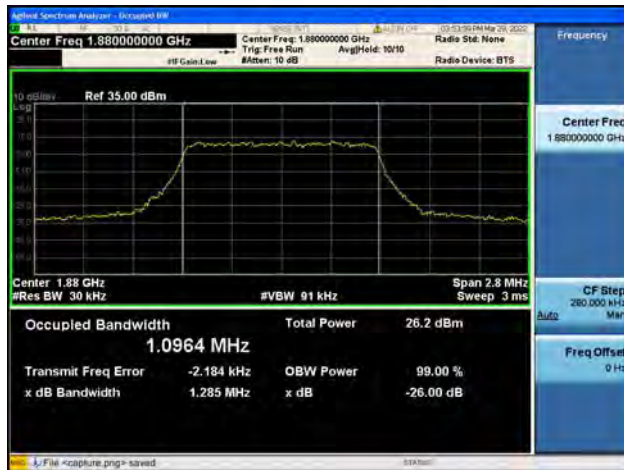
Band2 / 1.4MHz / Low CH / QPSK



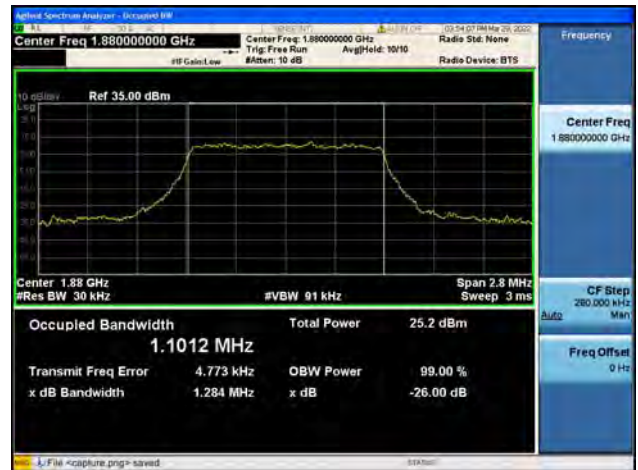
Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



Band2 / 1.4MHz / High CH / QPSK

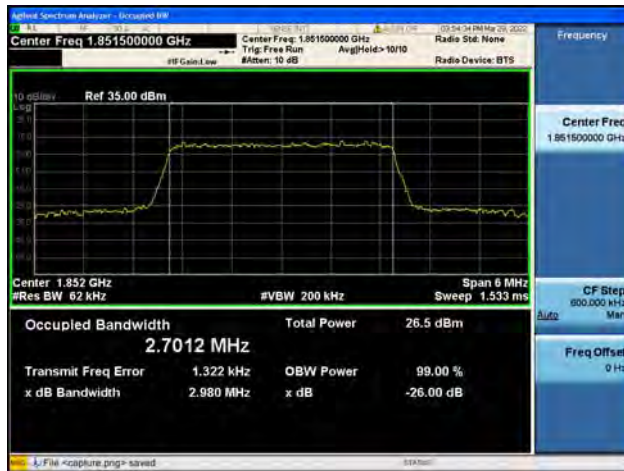


Band2 / 1.4MHz / High CH / 16QAM

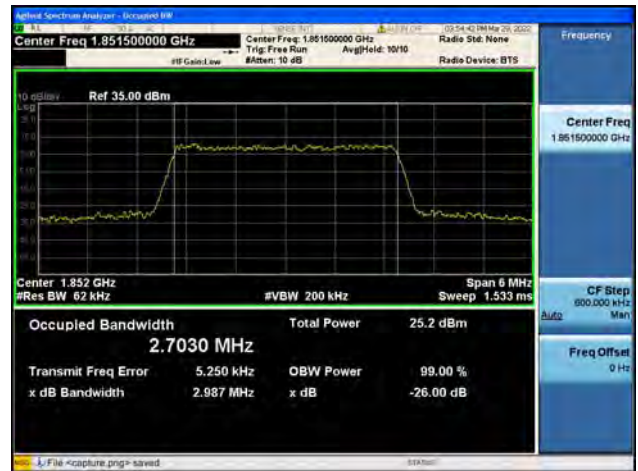




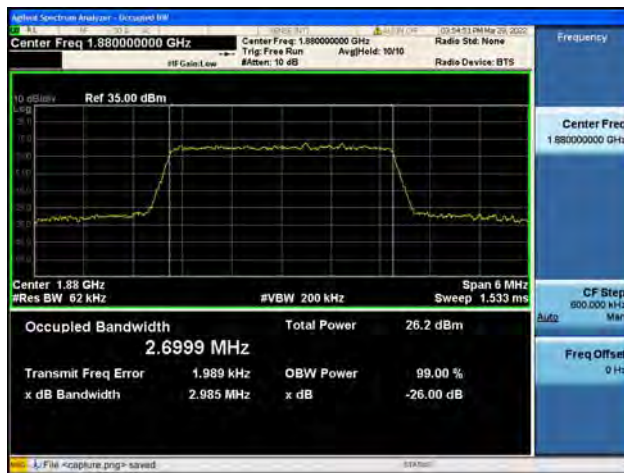
Band2 / 3MHz / Low CH / QPSK



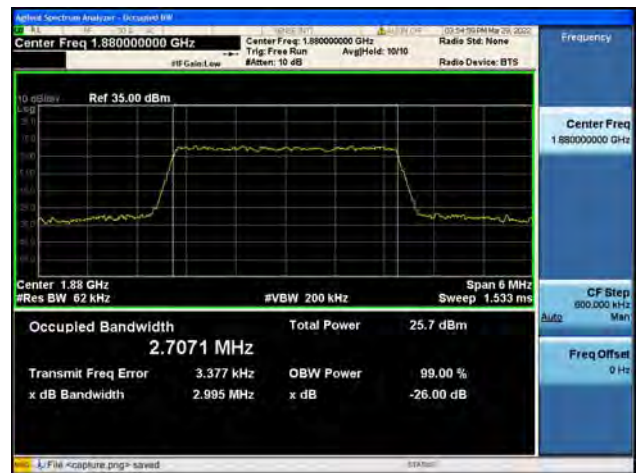
Band2 / 3MHz / Low CH / 16QAM



Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / High CH / QPSK

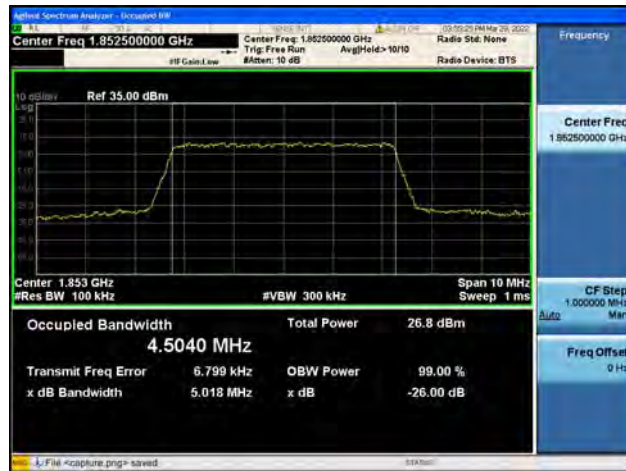


Band2 / 3MHz / High CH / 16QAM

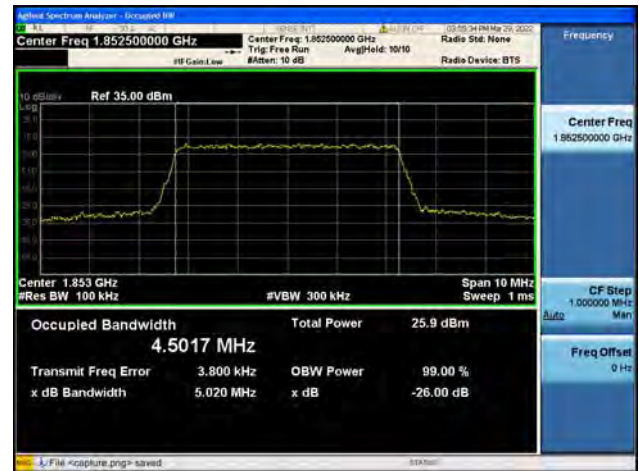




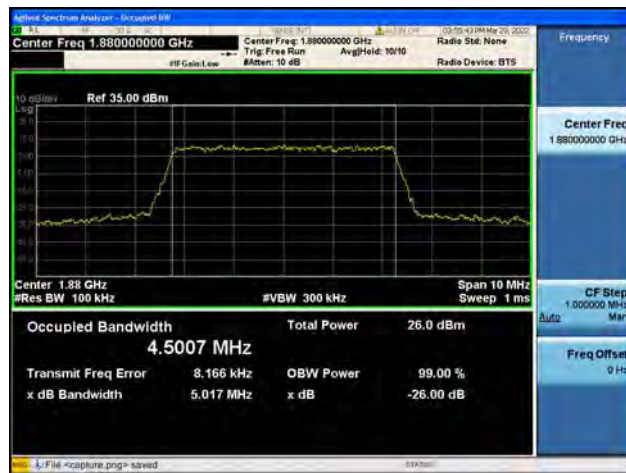
Band2 / 5MHz / Low CH / QPSK



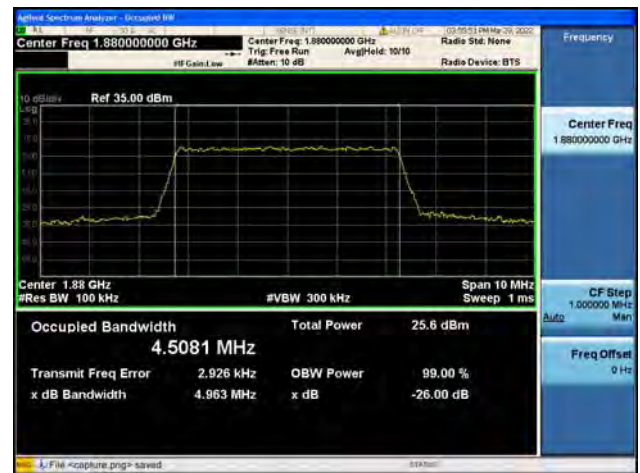
Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / High CH / QPSK

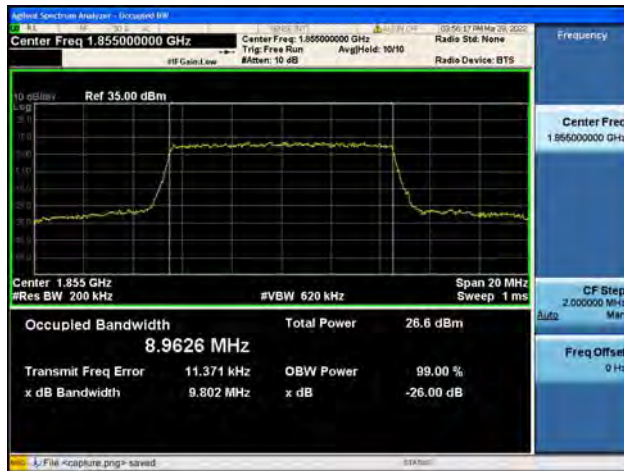


Band2 / 5MHz / High CH / 16QAM

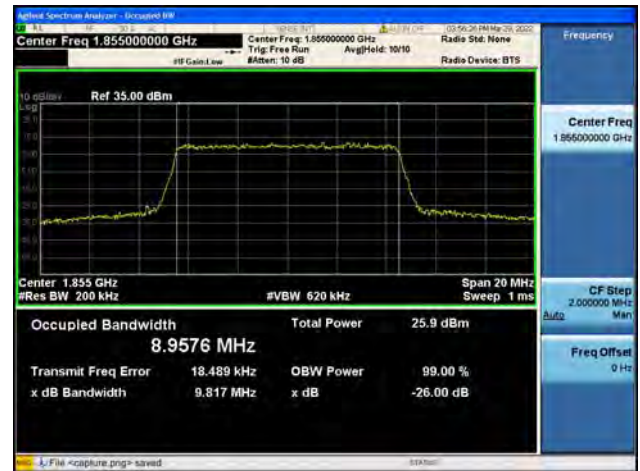




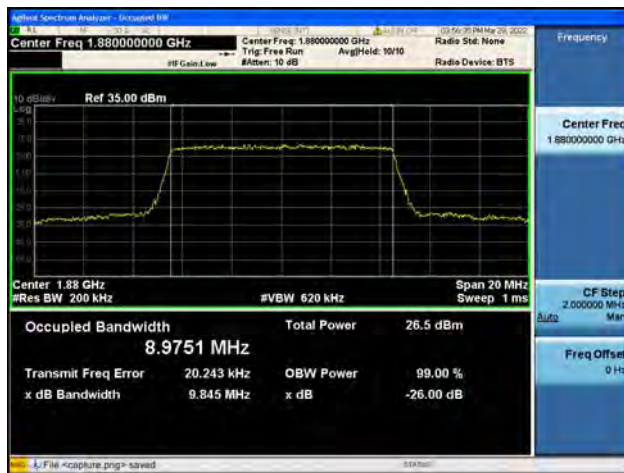
Band2 / 10MHz / Low CH / QPSK



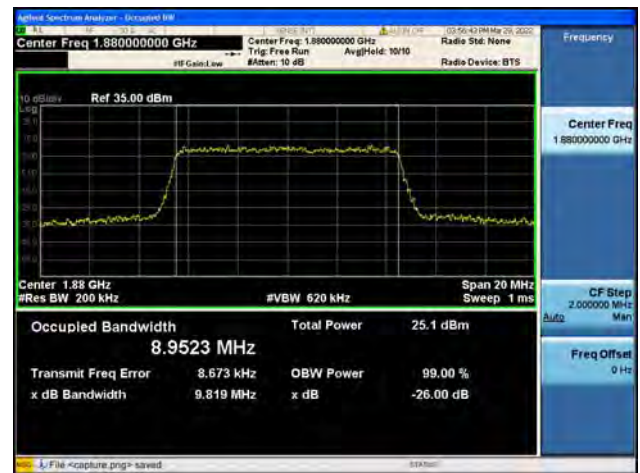
Band2 / 10MHz / Low CH / 16QAM



Band2 / 10MHz / Mid CH / QPSK



Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / High CH / QPSK

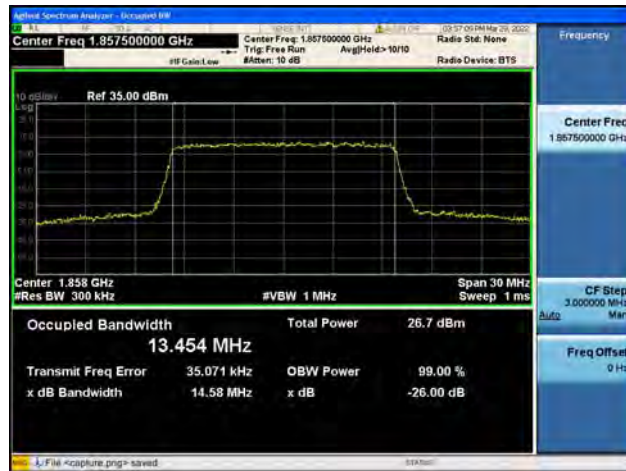


Band2 / 10MHz / High CH / 16QAM

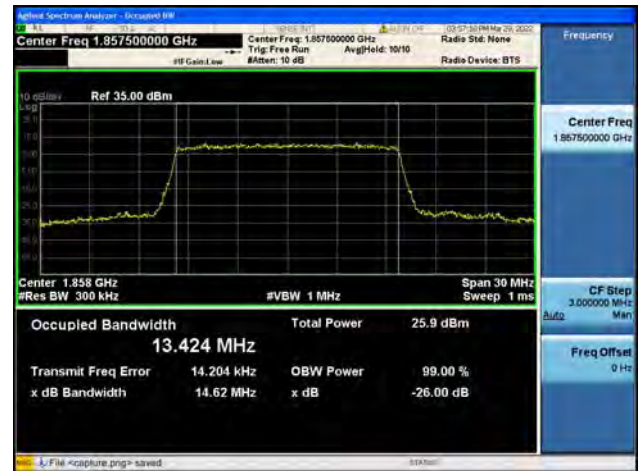




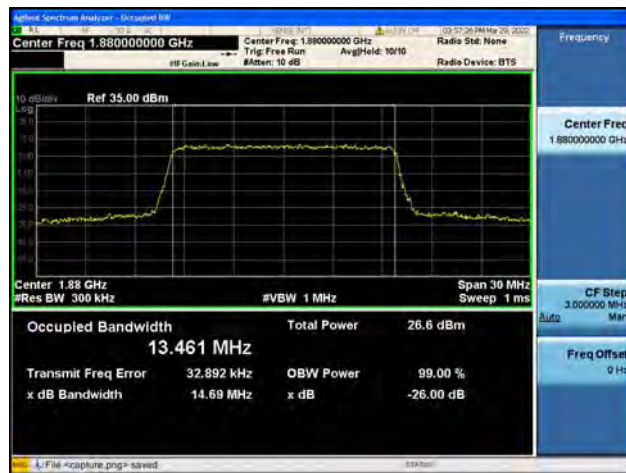
Band2 / 15MHz / Low CH / QPSK



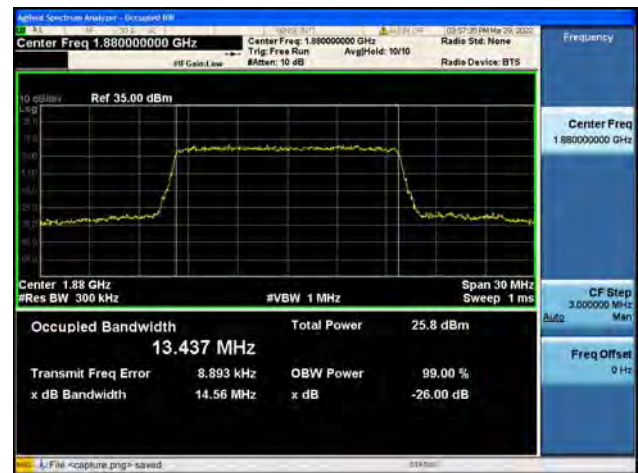
Band2 / 15MHz / Low CH / 16QAM



Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM



Band2 / 15MHz / High CH / QPSK



Band2 / 15MHz / High CH / 16QAM





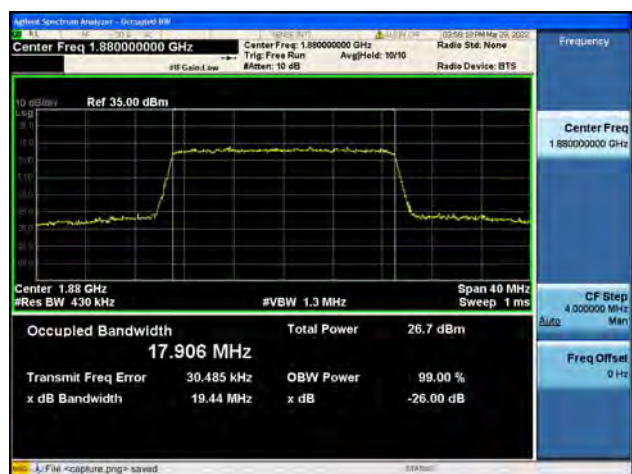
Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM



Band2 / 20MHz / Mid CH / QPSK



Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / High CH / QPSK

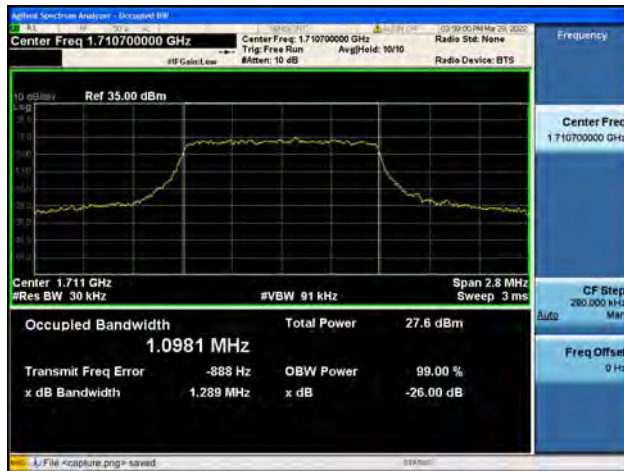


Band2 / 20MHz / High CH / 16QAM

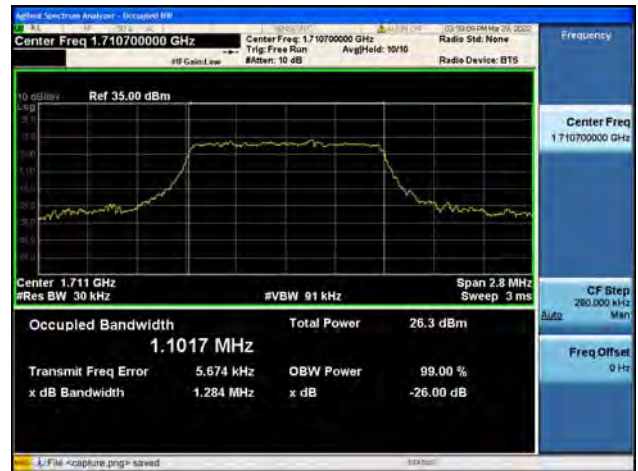




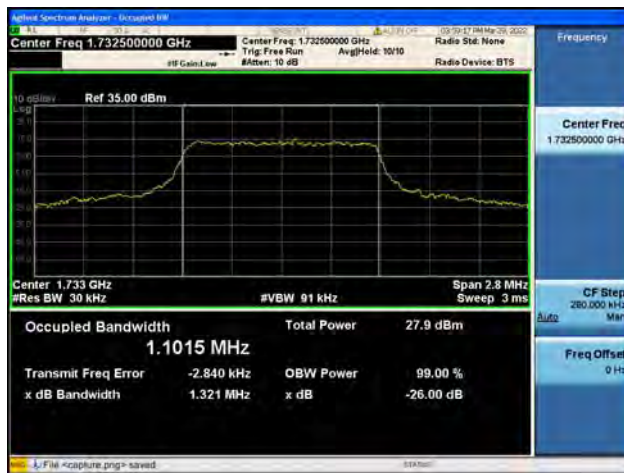
Band4 / 1.4MHz / Low CH / QPSK



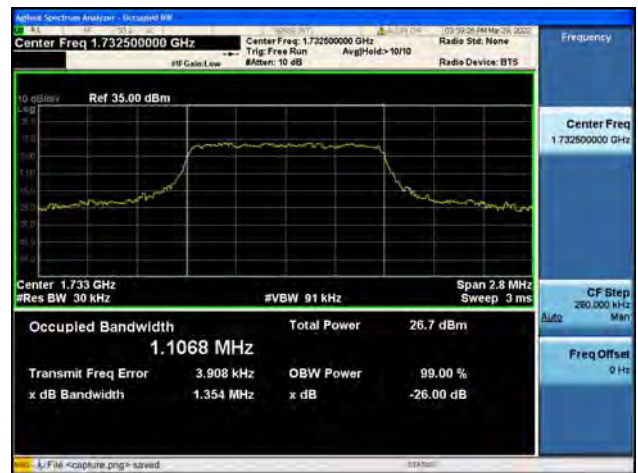
Band4 / 1.4MHz / Low CH / 16QAM



Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM



Band4 / 1.4MHz / High CH / QPSK

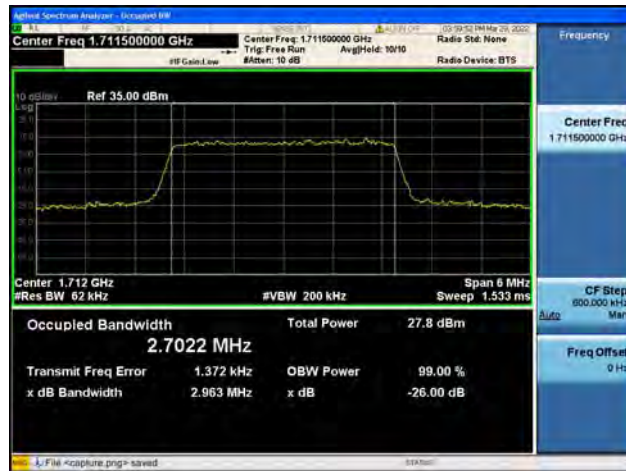


Band4 / 1.4MHz / High CH / 16QAM

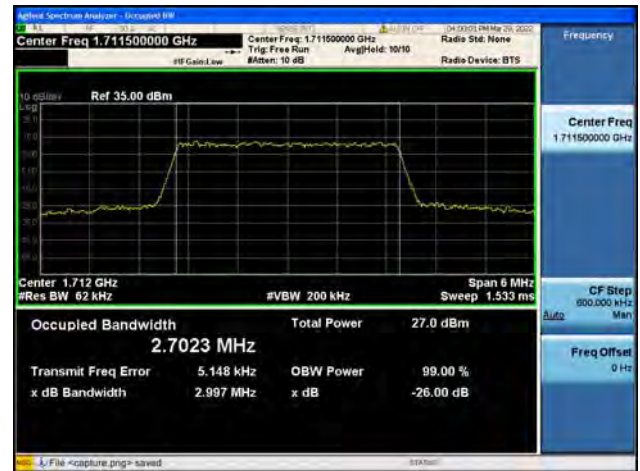




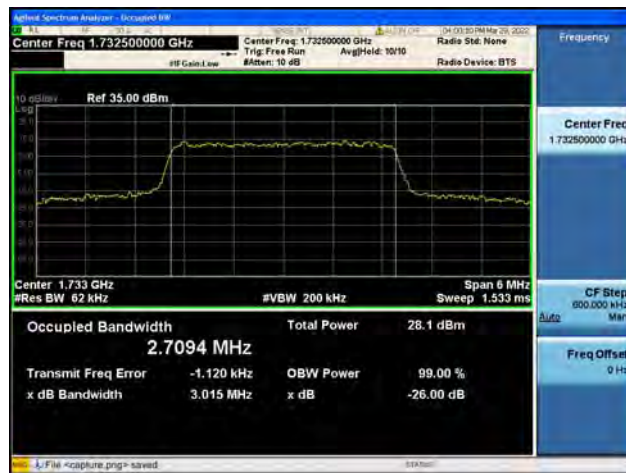
Band4 / 3MHz / Low CH / QPSK



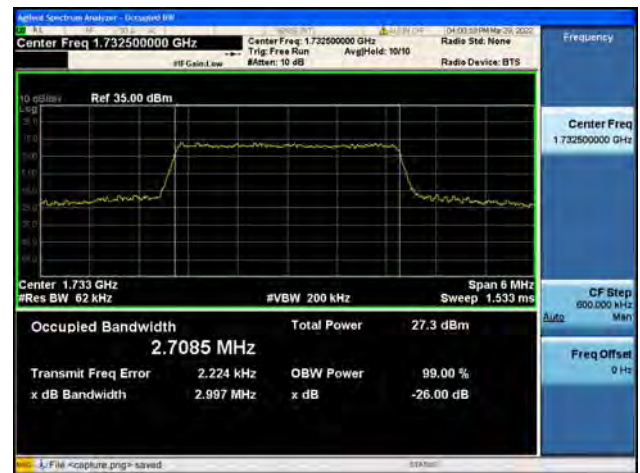
Band4 / 3MHz / Low CH / 16QAM



Band4 / 3MHz / Mid CH / QPSK



Band4 / 3MHz / Mid CH / 16QAM



Band4 / 3MHz / High CH / QPSK



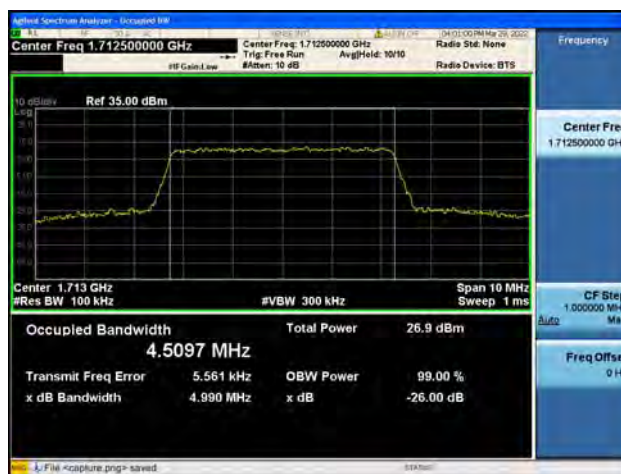
Band4 / 3MHz / High CH / 16QAM



Band4 / 5MHz / Low CH / QPSK



Band4 / 5MHz / Low CH / 16QAM



Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM



Band4 / 5MHz / High CH / QPSK

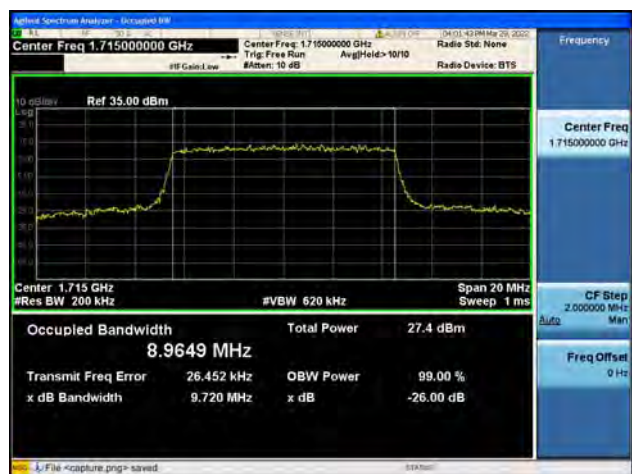


Band4 / 5MHz / High CH / 16QAM





Band4 / 10MHz / Low CH / QPSK



Band4 / 10MHz / Low CH / 16QAM



Band4 / 10MHz / Mid CH / QPSK



Band4 / 10MHz / Mid CH / 16QAM



Band4 / 10MHz / High CH / QPSK

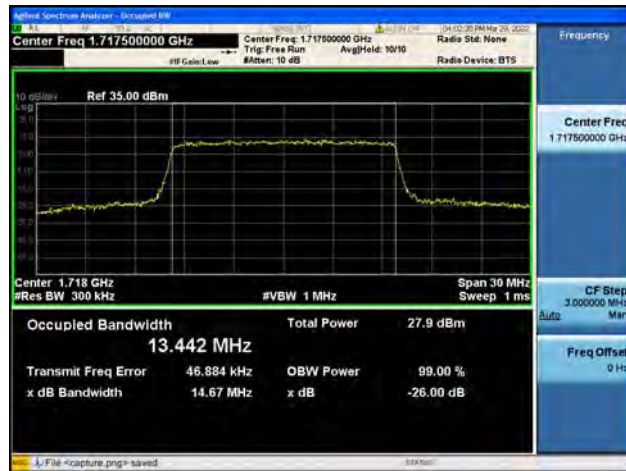


Band4 / 10MHz / High CH / 16QAM

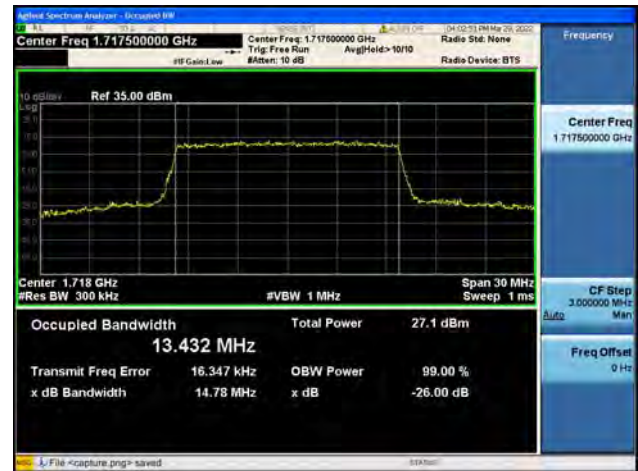




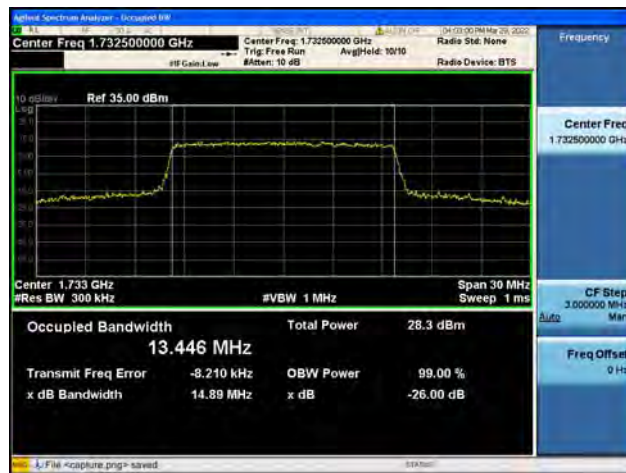
Band4 / 15MHz / Low CH / QPSK



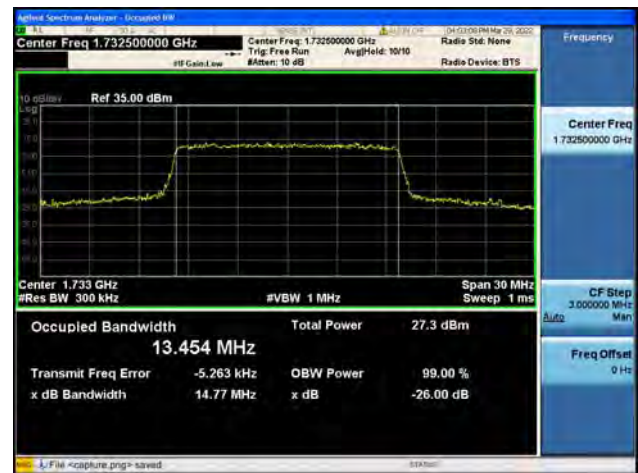
Band4 / 15MHz / Low CH / 16QAM



Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM



Band4 / 15MHz / High CH / QPSK



Band4 / 15MHz / High CH / 16QAM

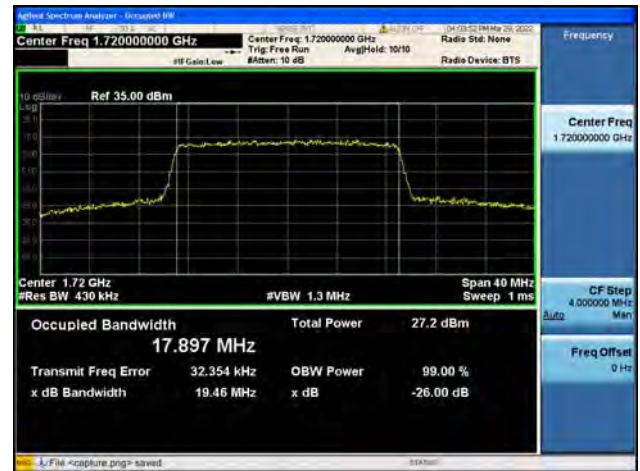




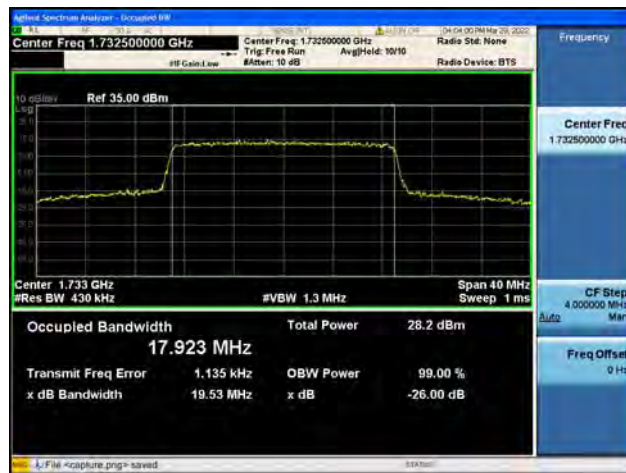
Band4 / 20MHz / Low CH / QPSK



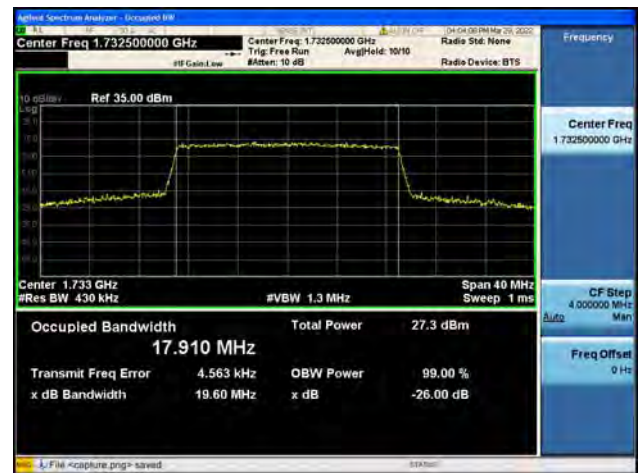
Band4 / 20MHz / Low CH / 16QAM



Band4 / 20MHz / Mid CH / QPSK



Band4 / 20MHz / Mid CH / 16QAM



Band4 / 20MHz / High CH / QPSK

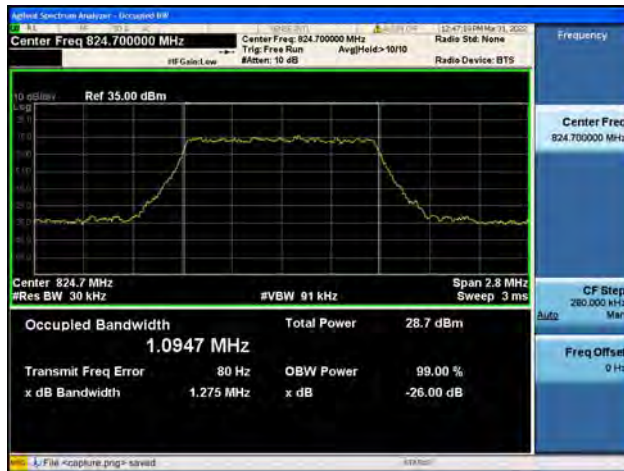


Band4 / 20MHz / High CH / 16QAM





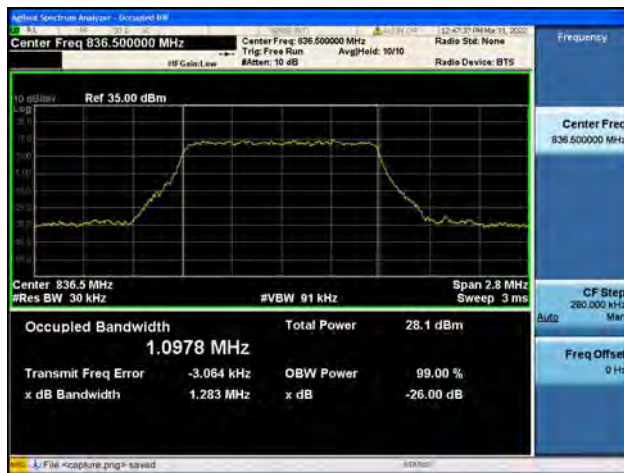
Band5 / 1.4MHz / Low CH / QPSK



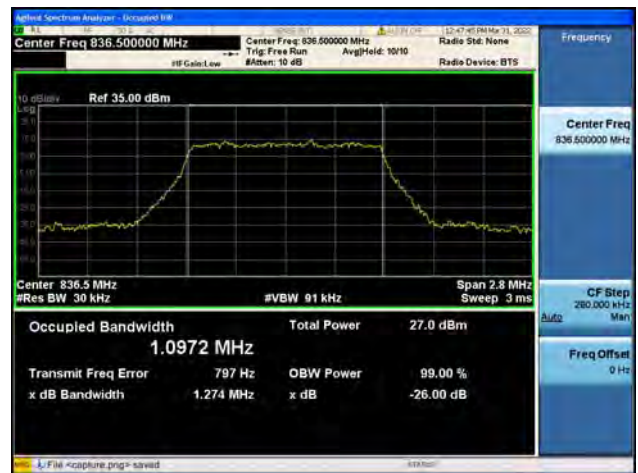
Band5 / 1.4MHz / Low CH / 16QAM



Band5 / 1.4MHz / Mid CH / QPSK



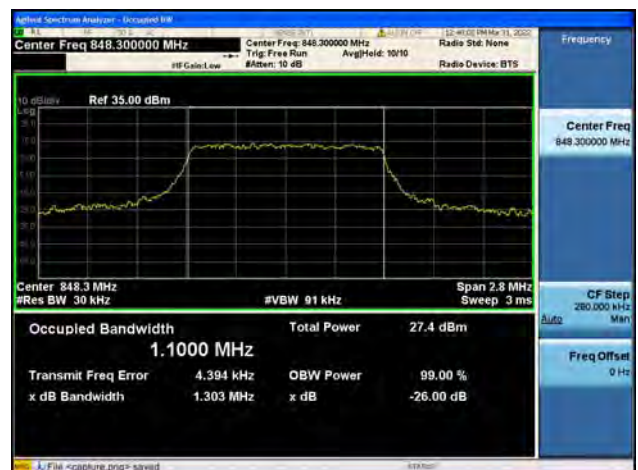
Band5 / 1.4MHz / Mid CH / 16QAM



Band5 / 1.4MHz / High CH / QPSK

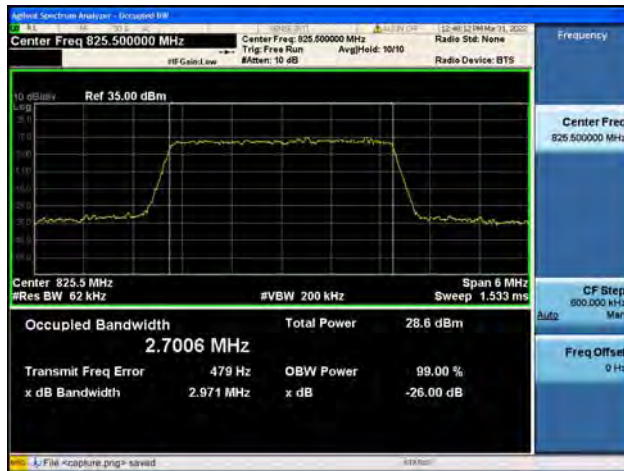


Band5 / 1.4MHz / High CH / 16QAM

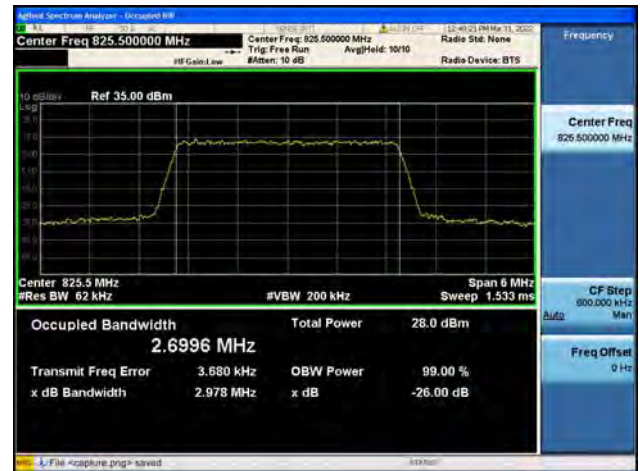




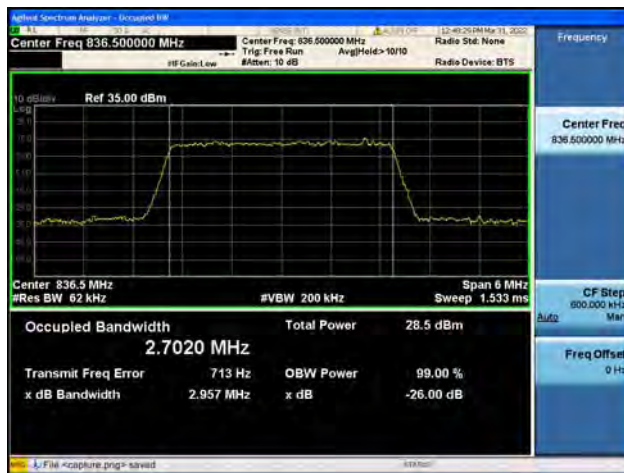
Band5 / 3MHz / Low CH / QPSK



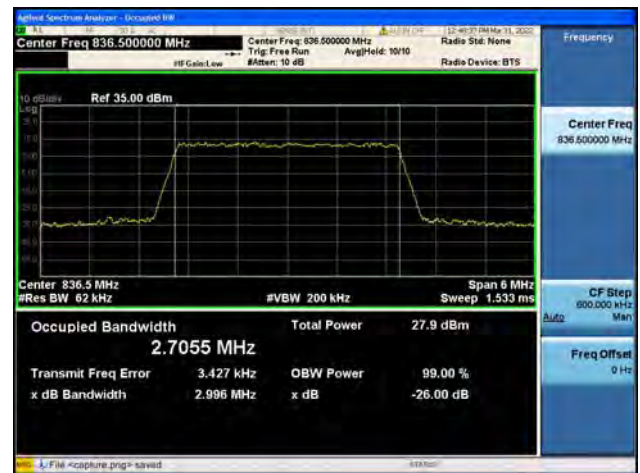
Band5 / 3MHz / Low CH / 16QAM



Band5 / 3MHz / Mid CH / QPSK



Band5 / 3MHz / Mid CH / 16QAM



Band5 / 3MHz / High CH / QPSK



Band5 / 3MHz / High CH / 16QAM





Band5 / 5MHz / Low CH / QPSK



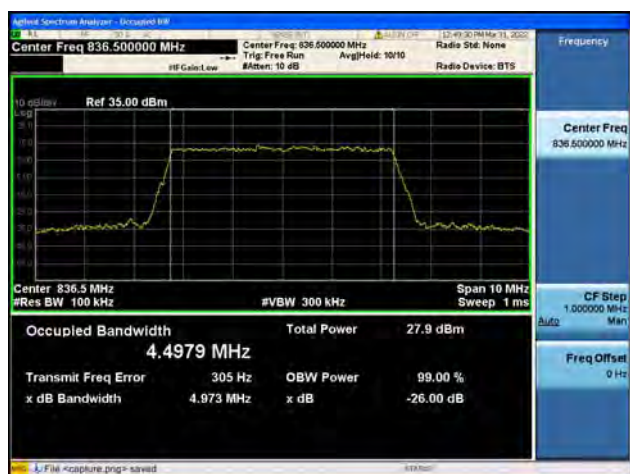
Band5 / 5MHz / Low CH / 16QAM



Band5 / 5MHz / Mid CH / QPSK



Band5 / 5MHz / Mid CH / 16QAM



Band5 / 5MHz / High CH / QPSK

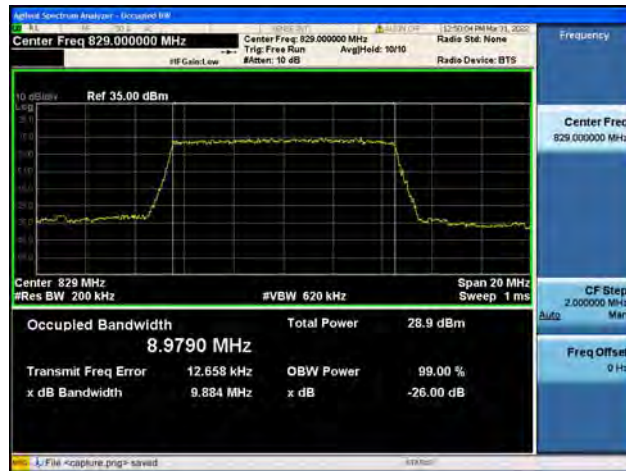


Band5 / 5MHz / High CH / 16QAM

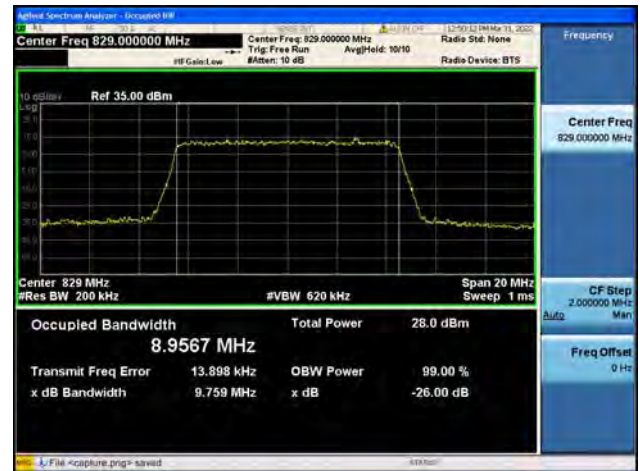




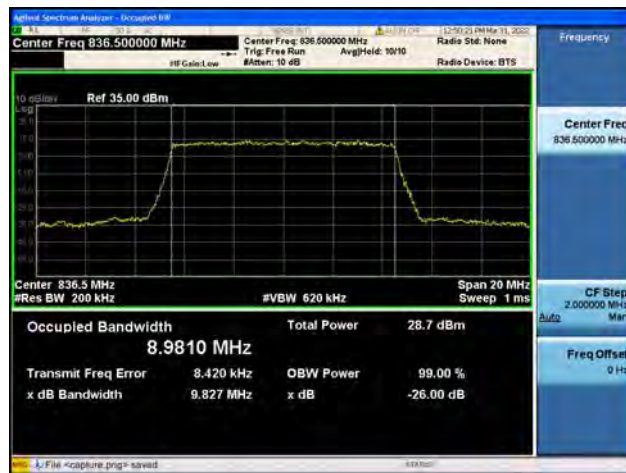
Band5 / 10MHz / Low CH / QPSK



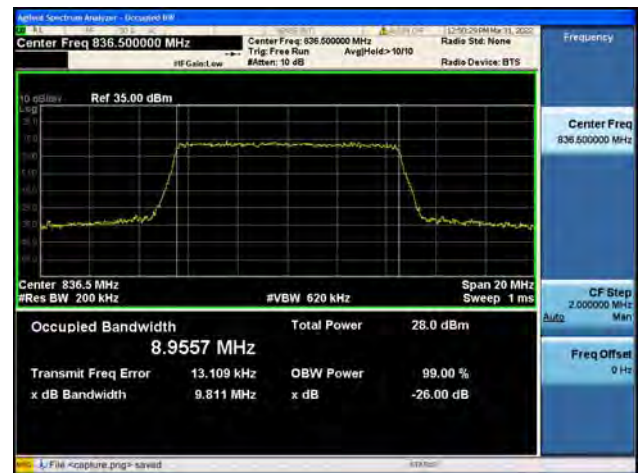
Band5 / 10MHz / Low CH / 16QAM



Band5 / 10MHz / Mid CH / QPSK



Band5 / 10MHz / Mid CH / 16QAM



Band5 / 10MHz / High CH / QPSK

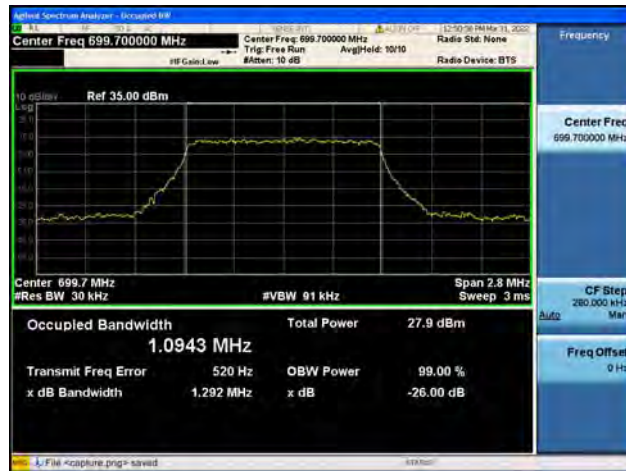


Band5 / 10MHz / High CH / 16QAM

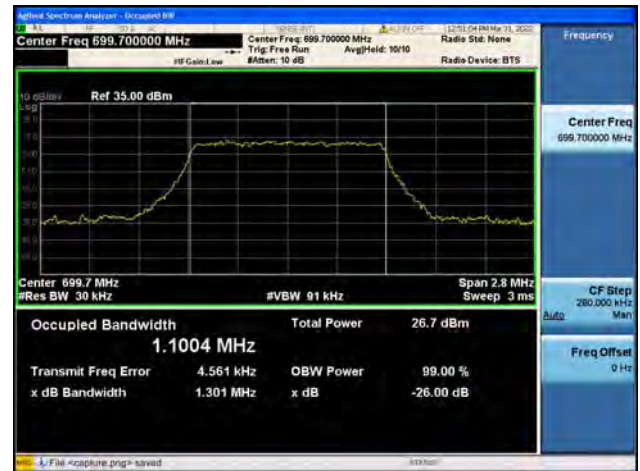




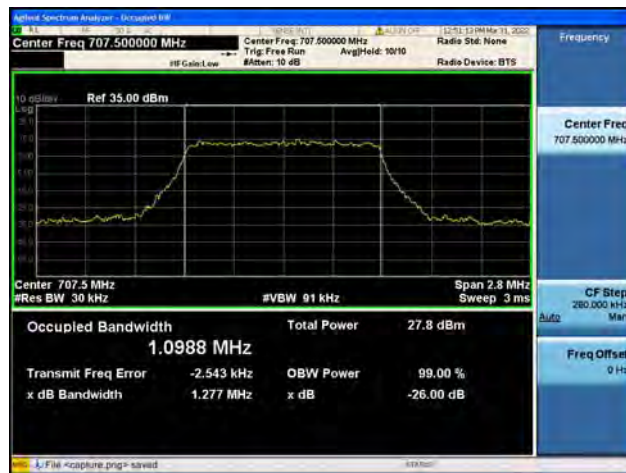
Band12 / 1.4MHz / Low CH / QPSK



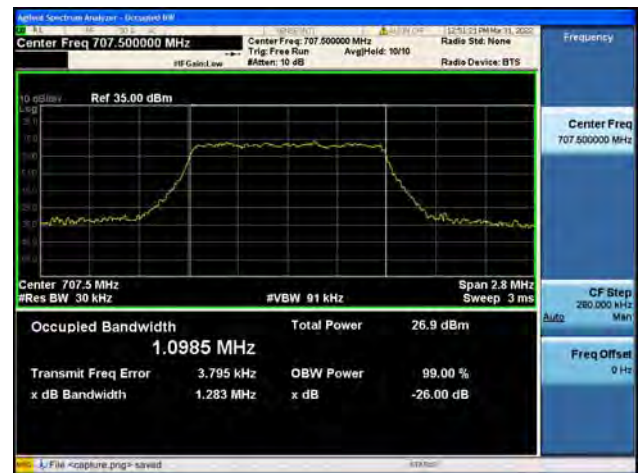
Band12 / 1.4MHz / Low CH / 16QAM



Band12 / 1.4MHz / Mid CH / QPSK



Band12 / 1.4MHz / Mid CH / 16QAM



Band12 / 1.4MHz / High CH / QPSK

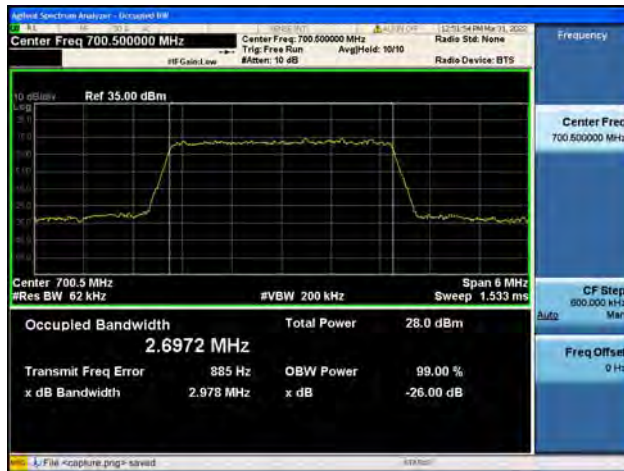


Band12 / 1.4MHz / High CH / 16QAM

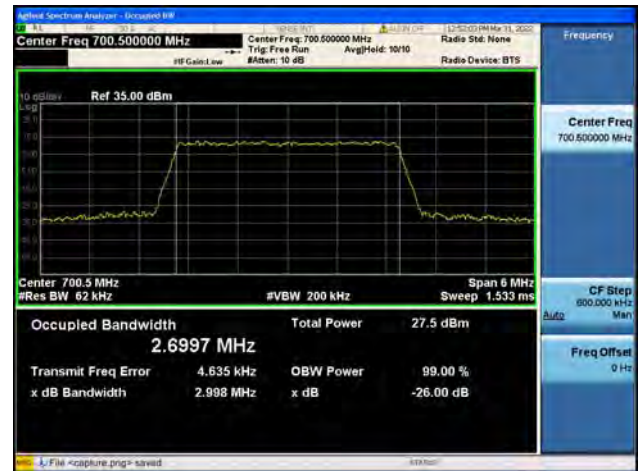




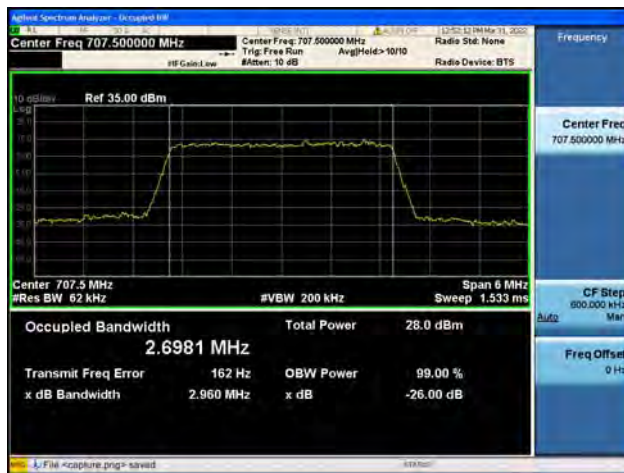
Band12 / 3MHz / Low CH / QPSK



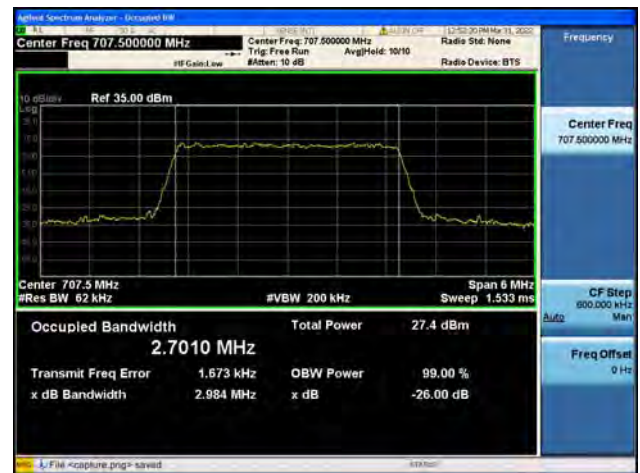
Band12 / 3MHz / Low CH / 16QAM



Band12 / 3MHz / Mid CH / QPSK



Band12 / 3MHz / Mid CH / 16QAM



Band12 / 3MHz / High CH / QPSK

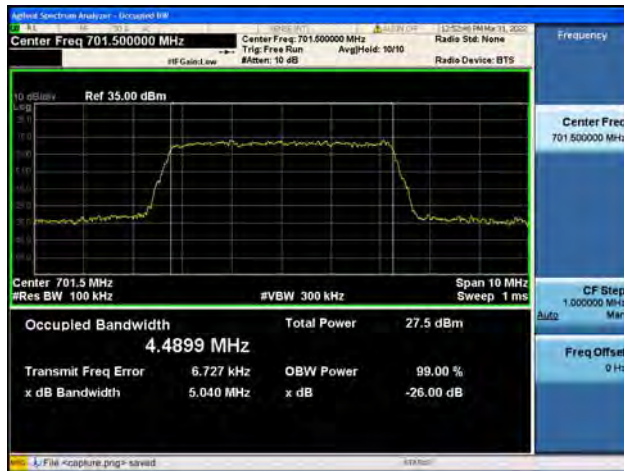


Band12 / 3MHz / High CH / 16QAM

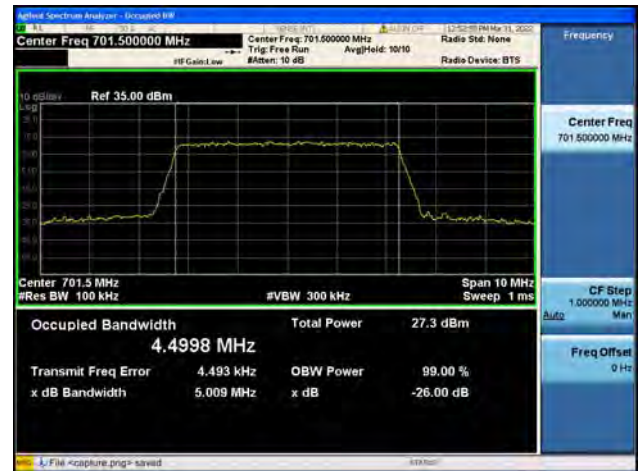




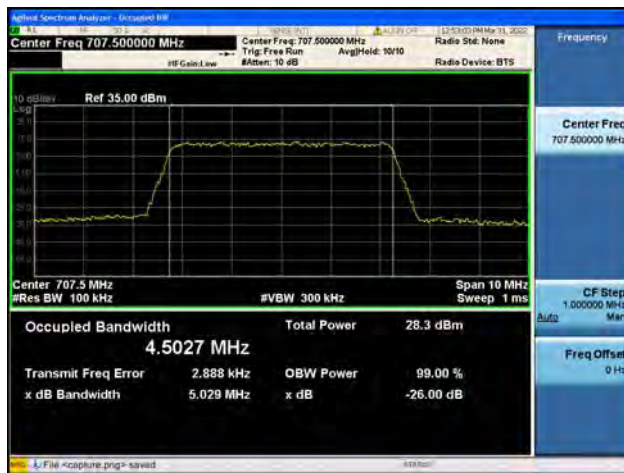
Band12 / 5MHz / Low CH / QPSK



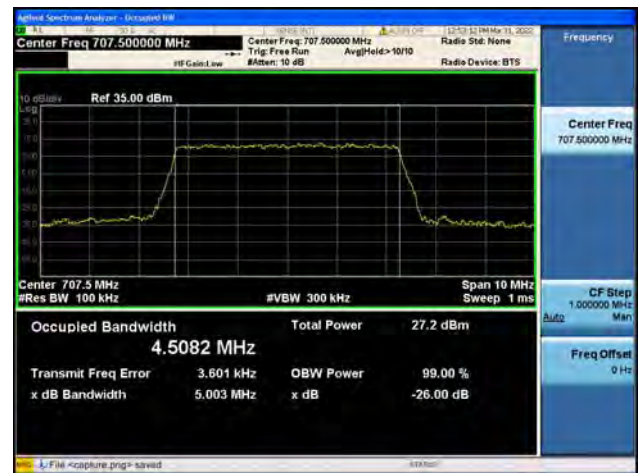
Band12 / 5MHz / Low CH / 16QAM



Band12 / 5MHz / Mid CH / QPSK



Band12 / 5MHz / Mid CH / 16QAM



Band12 / 5MHz / High CH / QPSK

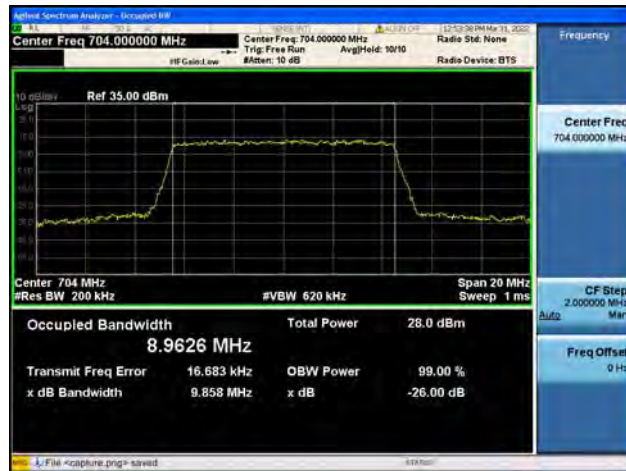


Band12 / 5MHz / High CH / 16QAM

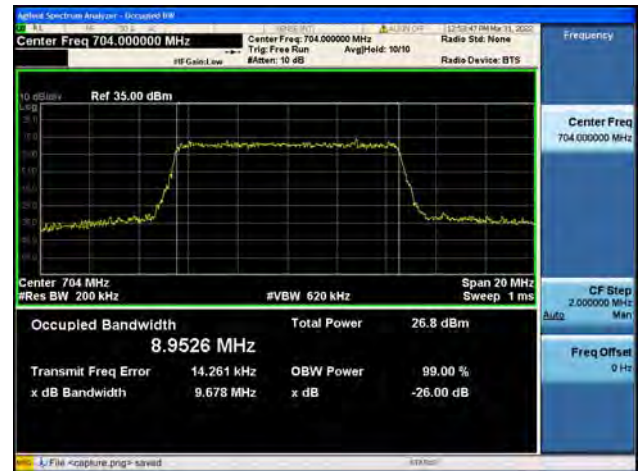




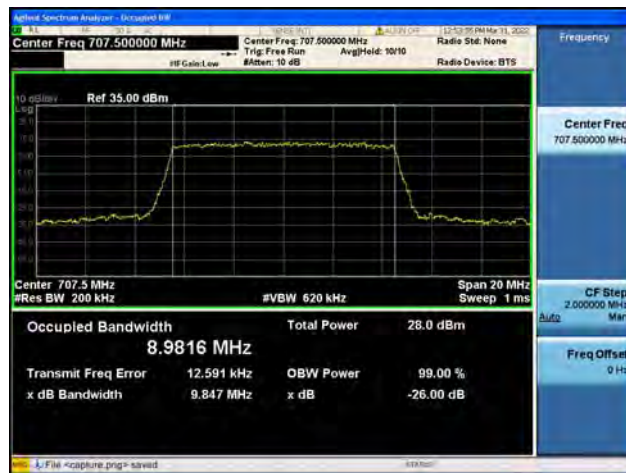
Band12 / 10MHz / Low CH / QPSK



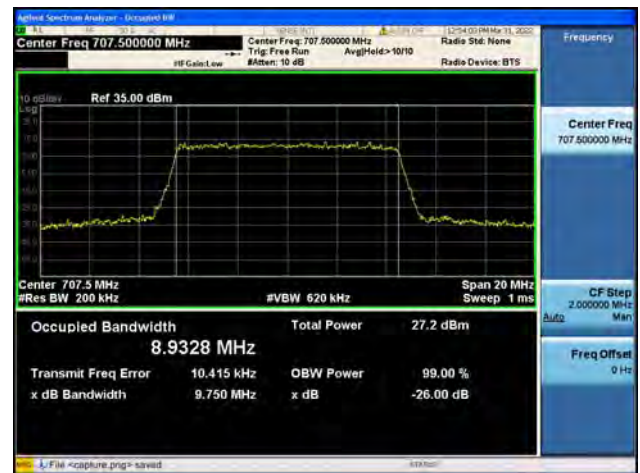
Band12 / 10MHz / Low CH / 16QAM



Band12 / 10MHz / Mid CH / QPSK



Band12 / 10MHz / Mid CH / 16QAM



Band12 / 10MHz / High CH / QPSK

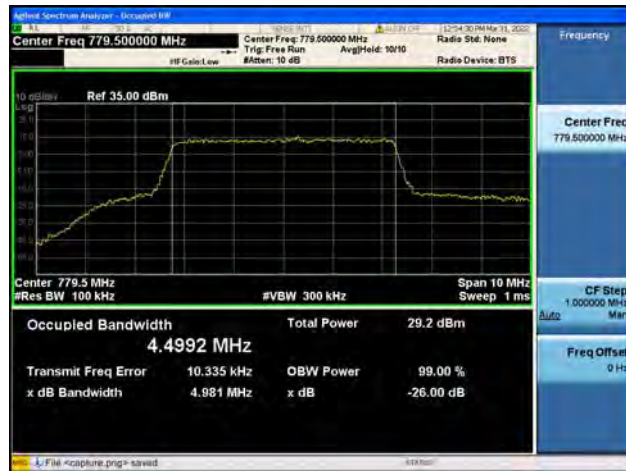


Band12 / 10MHz / High CH / 16QAM

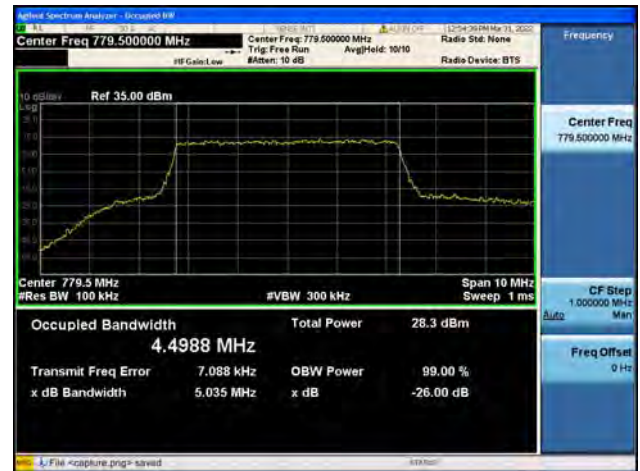




Band13 / 5MHz / Low CH / QPSK



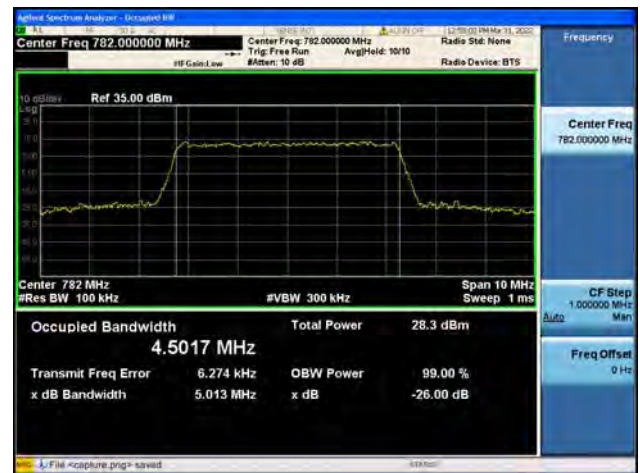
Band13 / 5MHz / Low CH / 16QAM



Band13 / 5MHz / Mid CH / QPSK



Band13 / 5MHz / Mid CH / 16QAM



Band13 / 5MHz / High CH / QPSK



Band13 / 5MHz / High CH / 16QAM





Band13 / 10MHz / Mid CH / QPSK

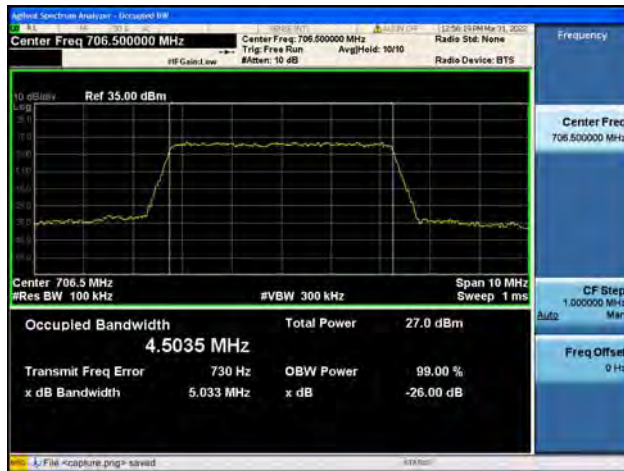


Band13 / 10MHz / Mid CH / 16QAM

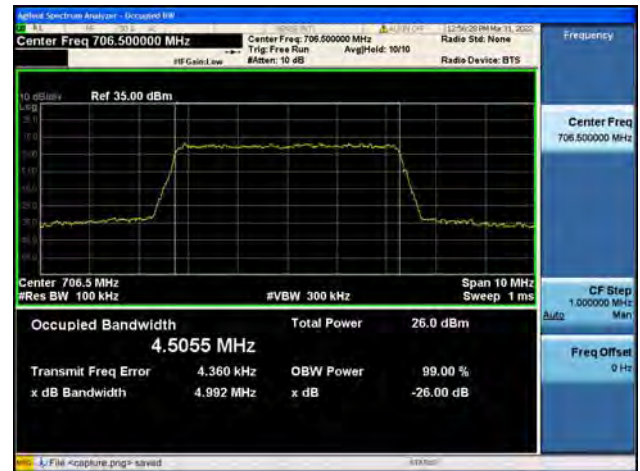




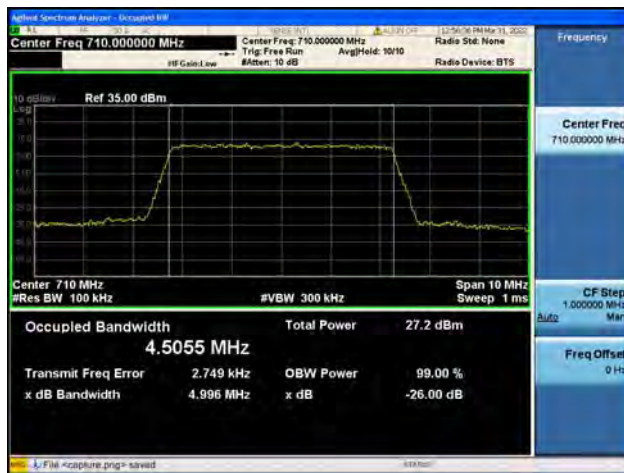
Band17 / 5MHz / Low CH / QPSK



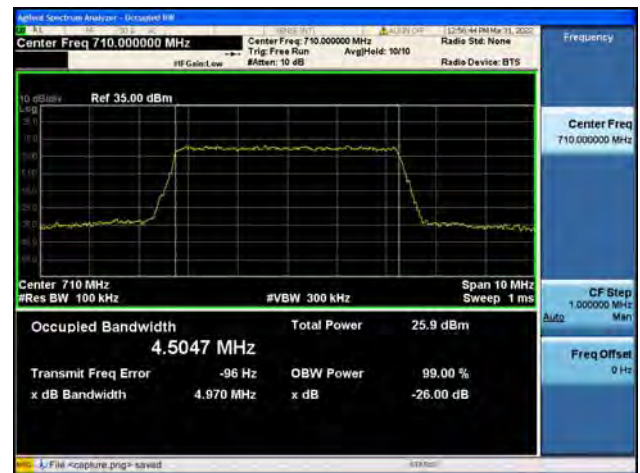
Band17 / 5MHz / Low CH / 16QAM



Band17 / 5MHz / Mid CH / QPSK



Band17 / 5MHz / Mid CH / 16QAM



Band17 / 5MHz / High CH / QPSK



Band17 / 5MHz / High CH / 16QAM





Band17 / 10MHz / Low CH / QPSK



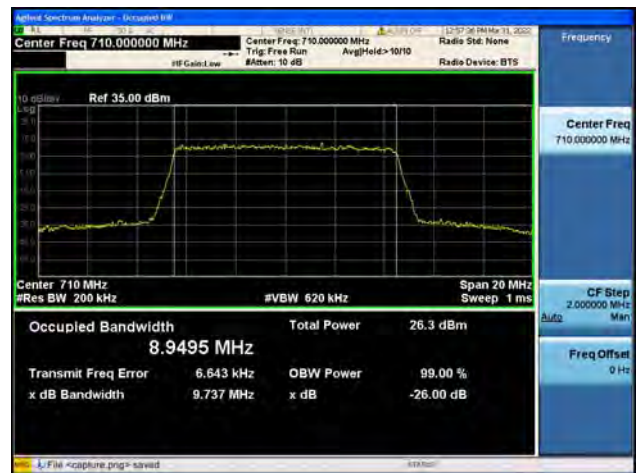
Band17 / 10MHz / Low CH / 16QAM



Band17 / 10MHz / Mid CH / QPSK



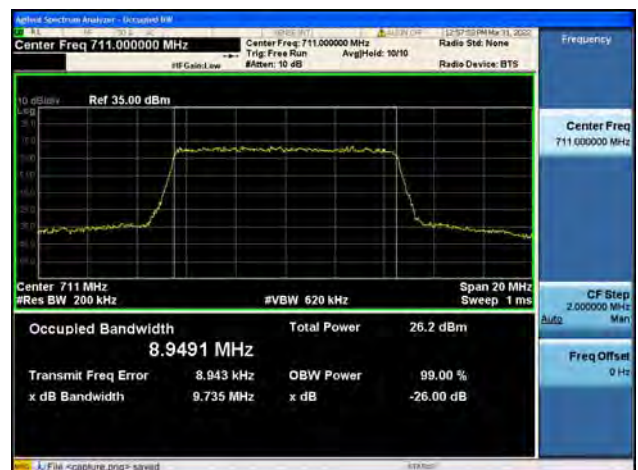
Band17 / 10MHz / Mid CH / 16QAM



Band17 / 10MHz / High CH / QPSK

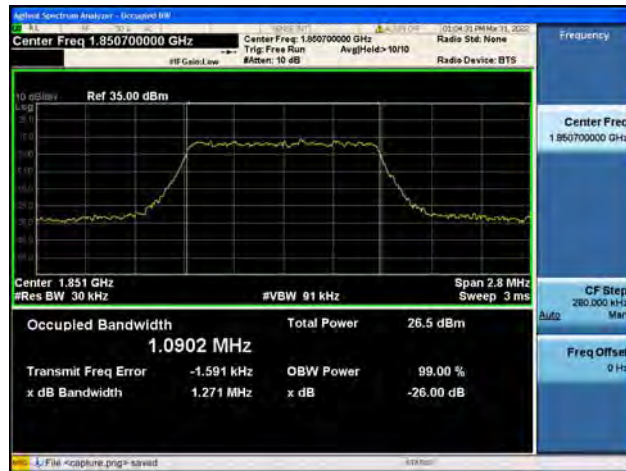


Band17 / 10MHz / High CH / 16QAM

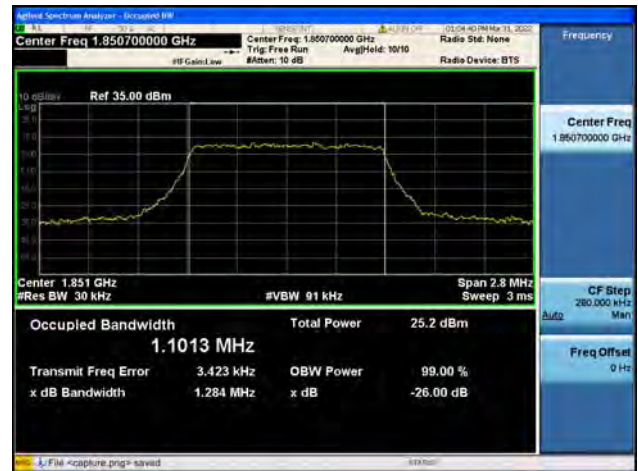




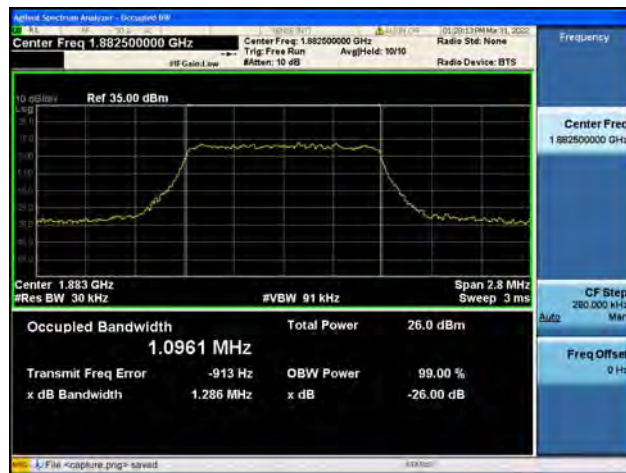
Band25 / 1.4MHz / Low CH / QPSK



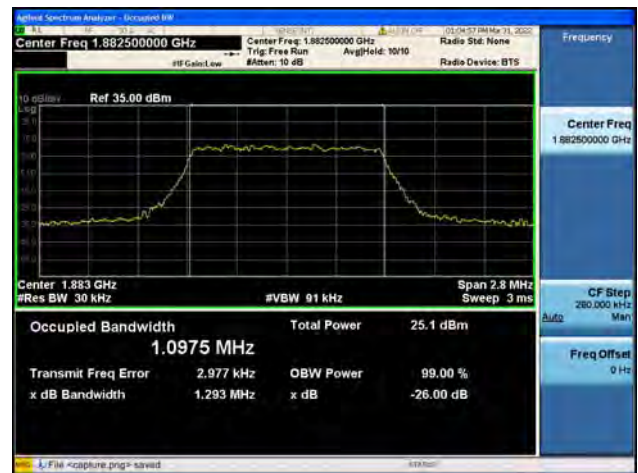
Band25 / 1.4MHz / Low CH / 16QAM



Band25 / 1.4MHz / Mid CH / QPSK



Band25 / 1.4MHz / Mid CH / 16QAM



Band25 / 1.4MHz / High CH / QPSK



Band25 / 1.4MHz / High CH / 16QAM

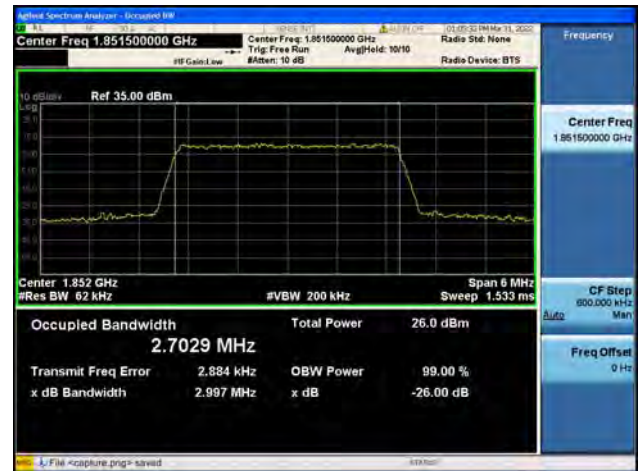




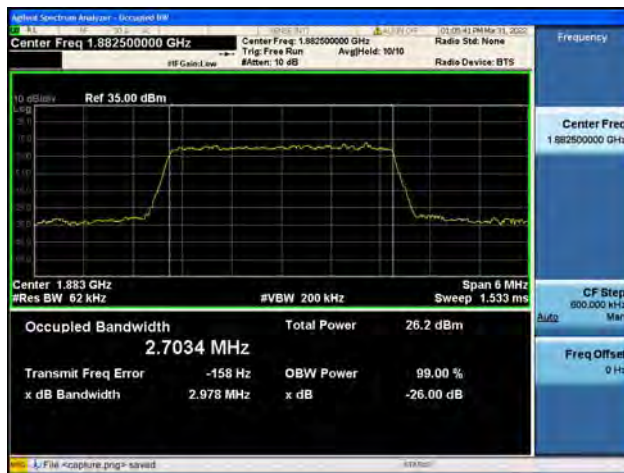
Band25 / 3MHz / Low CH / QPSK



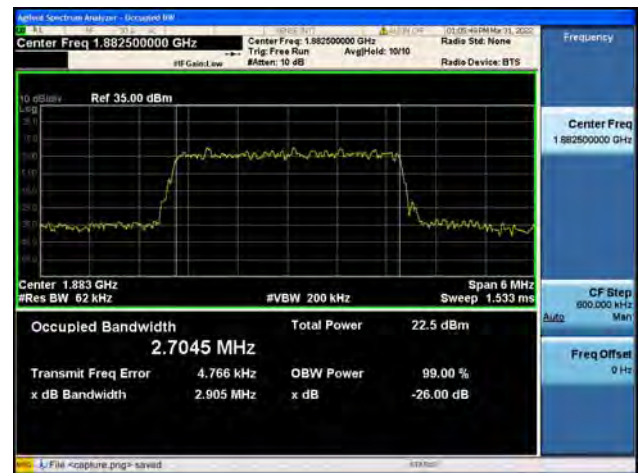
Band25 / 3MHz / Low CH / 16QAM



Band25 / 3MHz / Mid CH / QPSK



Band25 / 3MHz / Mid CH / 16QAM



Band25 / 3MHz / High CH / QPSK

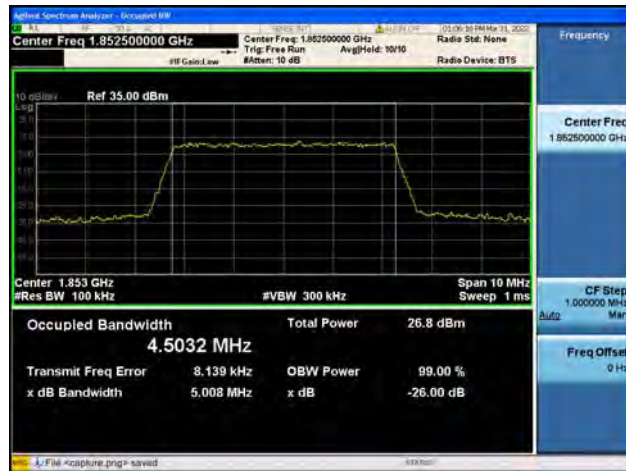


Band25 / 3MHz / High CH / 16QAM

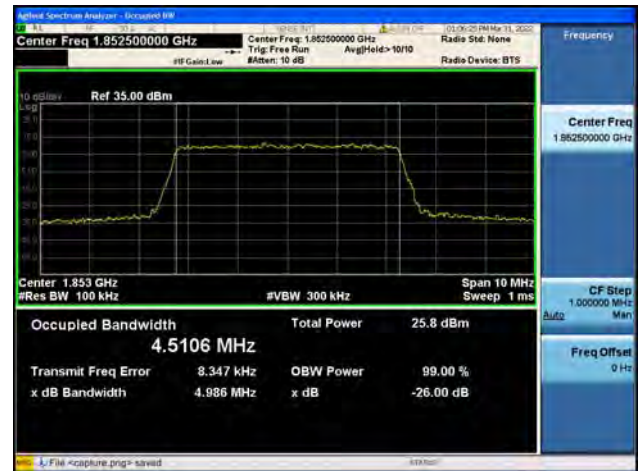




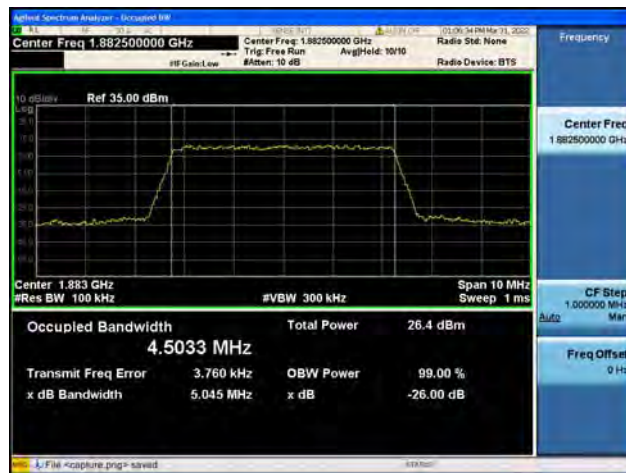
Band25 / 5MHz / Low CH / QPSK



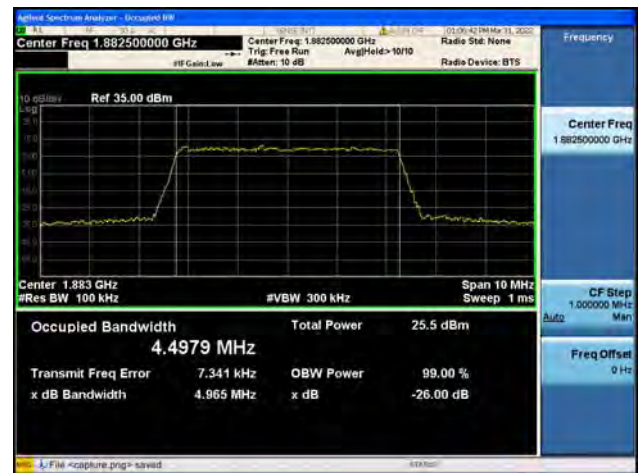
Band25 / 5MHz / Low CH / 16QAM



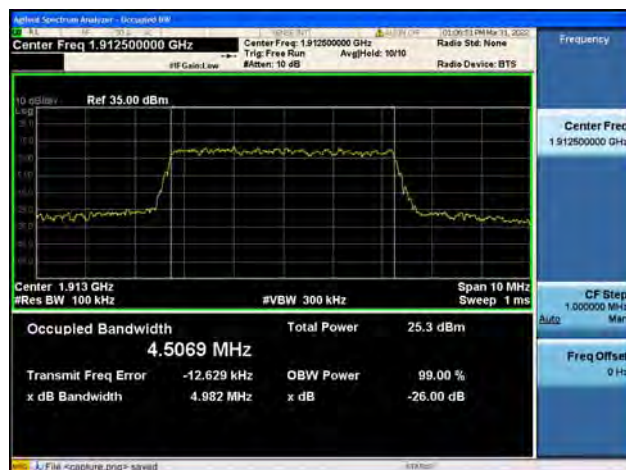
Band25 / 5MHz / Mid CH / QPSK



Band25 / 5MHz / Mid CH / 16QAM



Band25 / 5MHz / High CH / QPSK

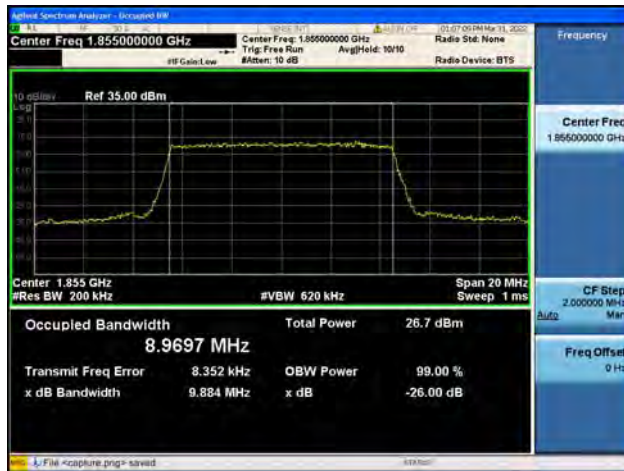


Band25 / 5MHz / High CH / 16QAM

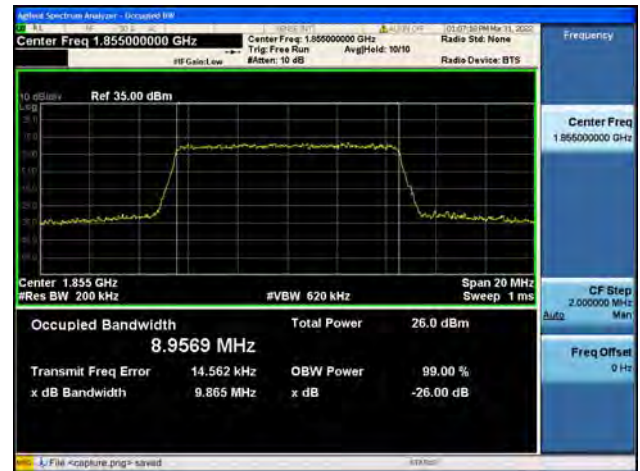




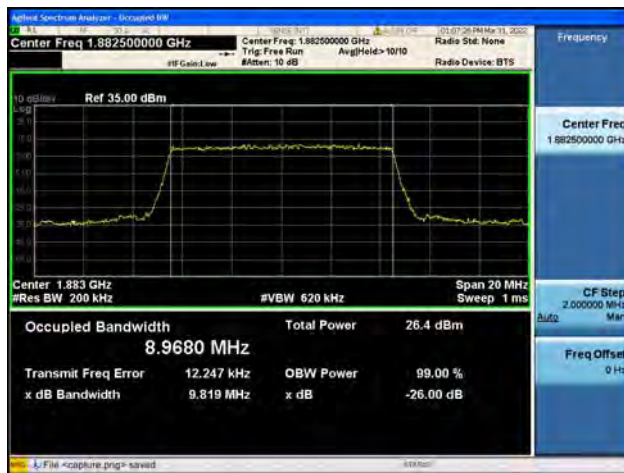
Band25 / 10MHz / Low CH / QPSK



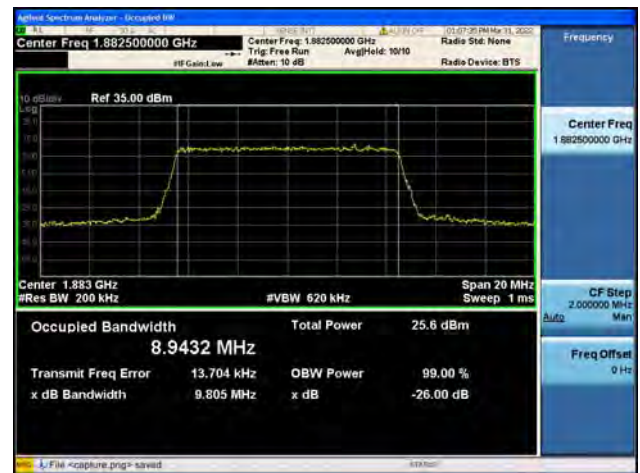
Band25 / 10MHz / Low CH / 16QAM



Band25 / 10MHz / Mid CH / QPSK



Band25 / 10MHz / Mid CH / 16QAM



Band25 / 10MHz / High CH / QPSK

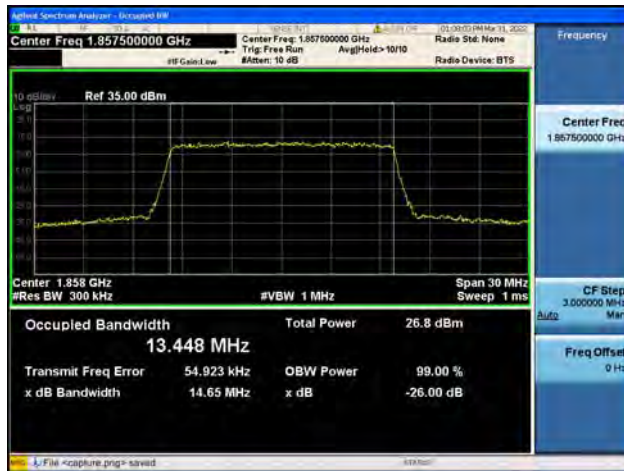


Band25 / 10MHz / High CH / 16QAM





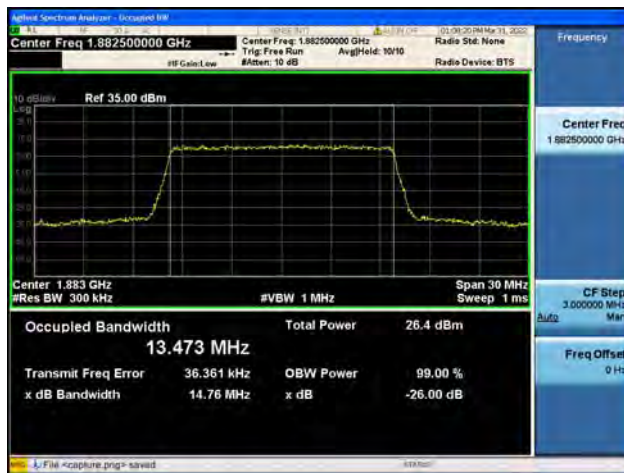
Band25 / 15MHz / Low CH / QPSK



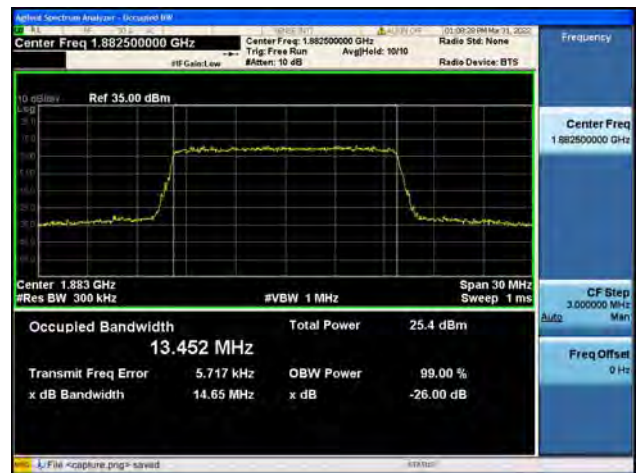
Band25 / 15MHz / Low CH / 16QAM



Band25 / 15MHz / Mid CH / QPSK



Band25 / 15MHz / Mid CH / 16QAM



Band25 / 15MHz / High CH / QPSK

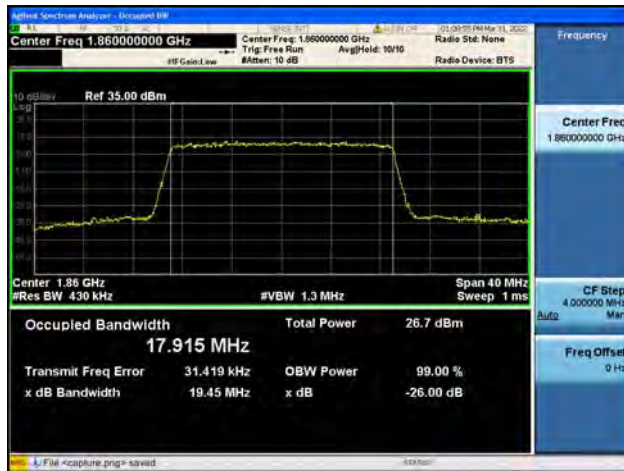


Band25 / 15MHz / High CH / 16QAM

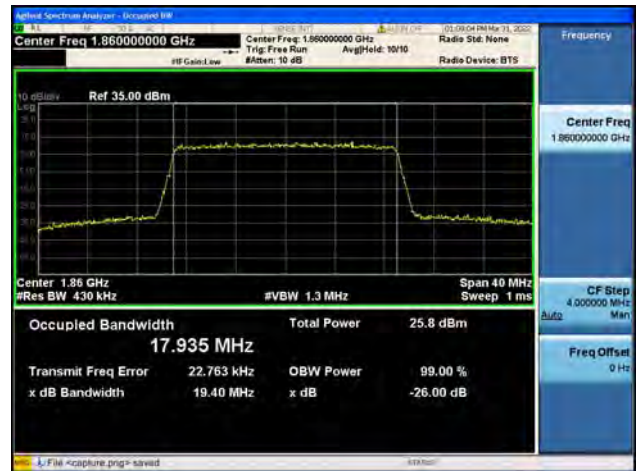




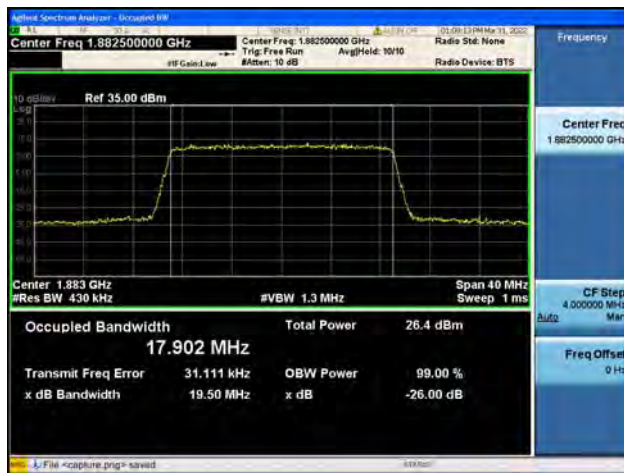
Band25 / 20MHz / Low CH / QPSK



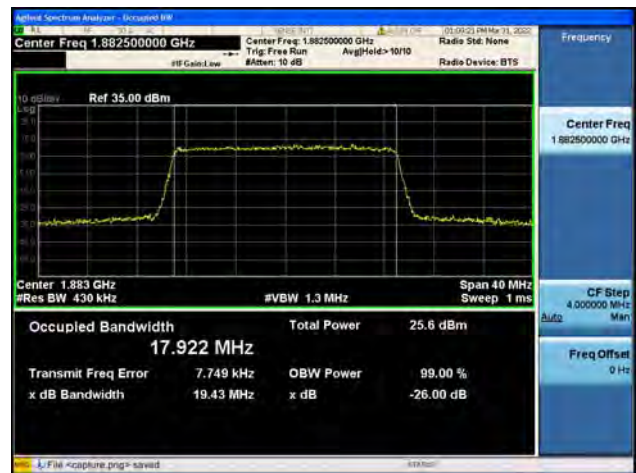
Band25 / 20MHz / Low CH / 16QAM



Band25 / 20MHz / Mid CH / QPSK



Band25 / 20MHz / Mid CH / 16QAM



Band25 / 20MHz / High CH / QPSK



Band25 / 20MHz / High CH / 16QAM

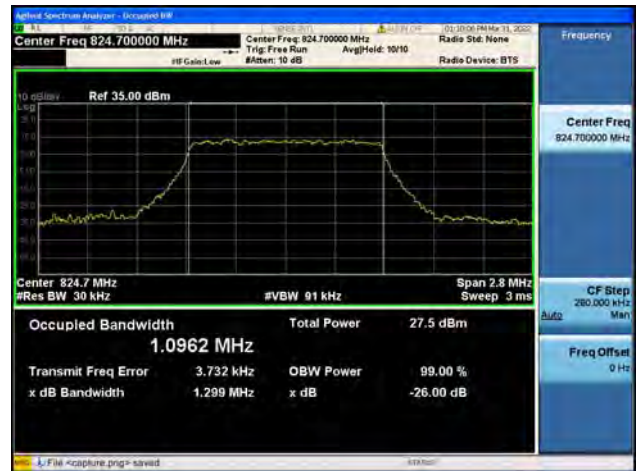




Band26Part22 / 1.4MHz / Low CH / QPSK



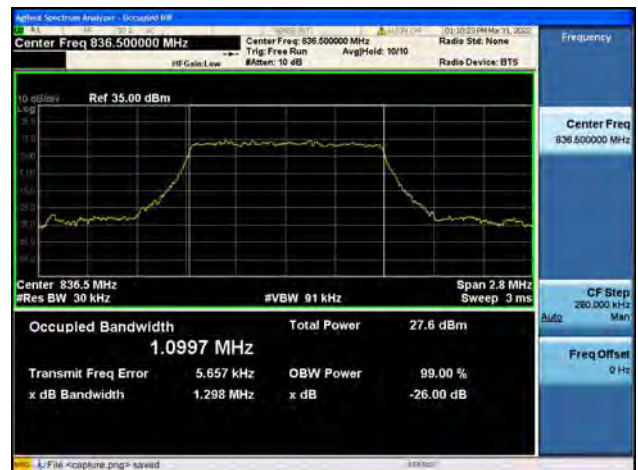
Band26Part22 / 1.4MHz / Low CH / 16QAM



Band26Part22 / 1.4MHz / Mid CH / QPSK



Band26Part22 / 1.4MHz / Mid CH / 16QAM



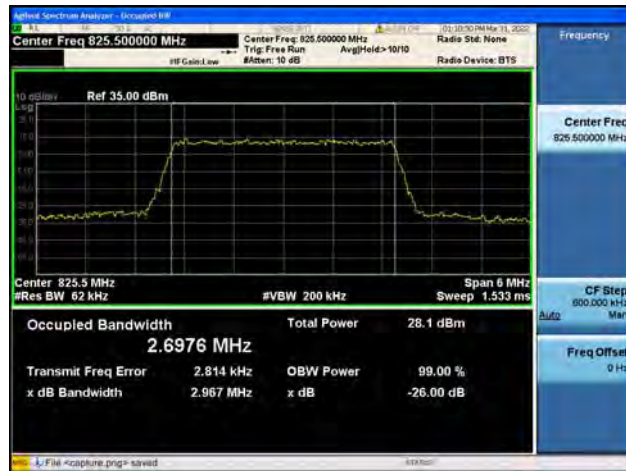
Band26Part22 / 1.4MHz / High CH / QPSK



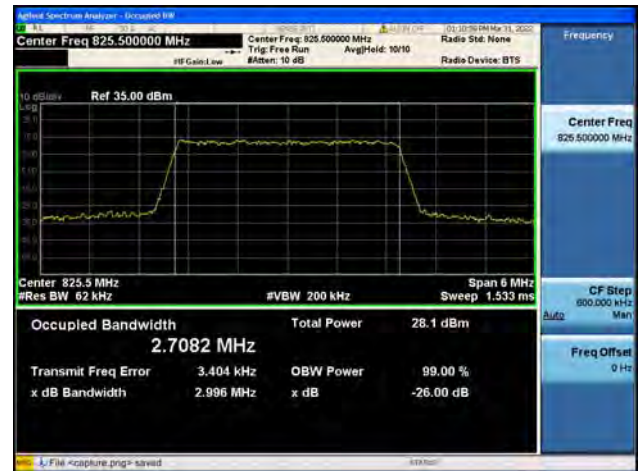
Band26Part22 / 1.4MHz / High CH / 16QAM



Band26Part22 / 3MHz / Low CH / QPSK



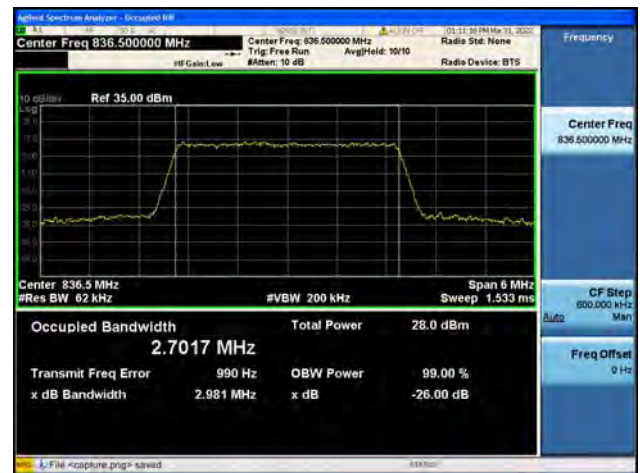
Band26Part22 / 3MHz / Low CH / 16QAM



Band26Part22 / 3MHz / Mid CH / QPSK



Band26Part22 / 3MHz / Mid CH / 16QAM



Band26Part22 / 3MHz / High CH / QPSK

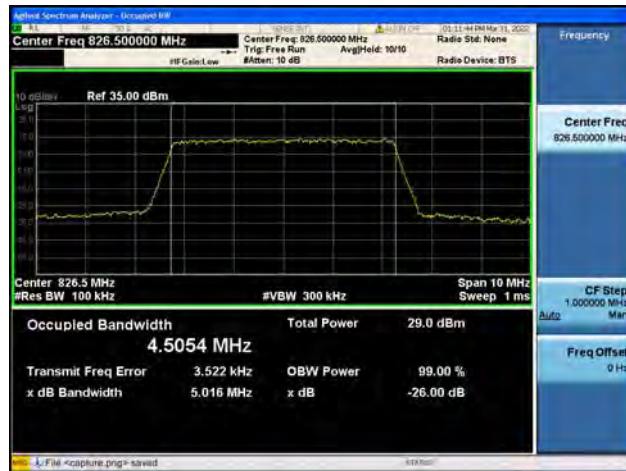


Band26Part22 / 3MHz / High CH / 16QAM

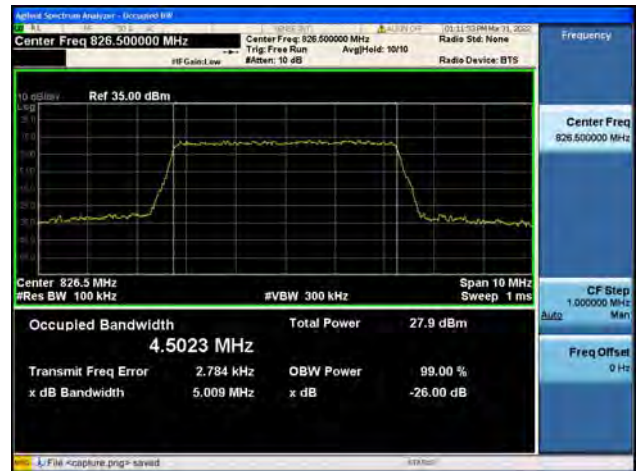




Band26Part22 / 5MHz / Low CH / QPSK



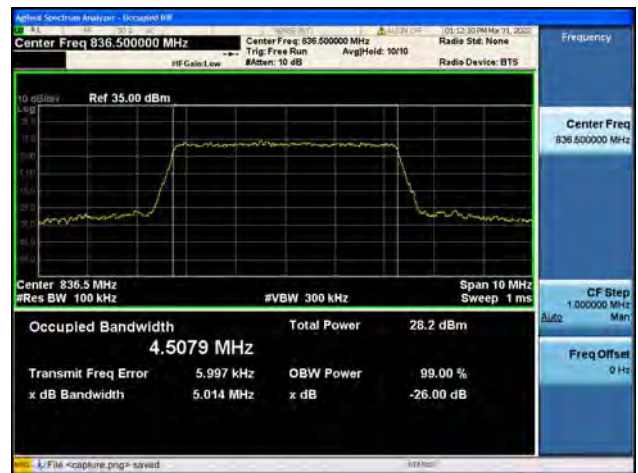
Band26Part22 / 5MHz / Low CH / 16QAM



Band26Part22 / 5MHz / Mid CH / QPSK



Band26Part22 / 5MHz / Mid CH / 16QAM



Band26Part22 / 5MHz / High CH / QPSK

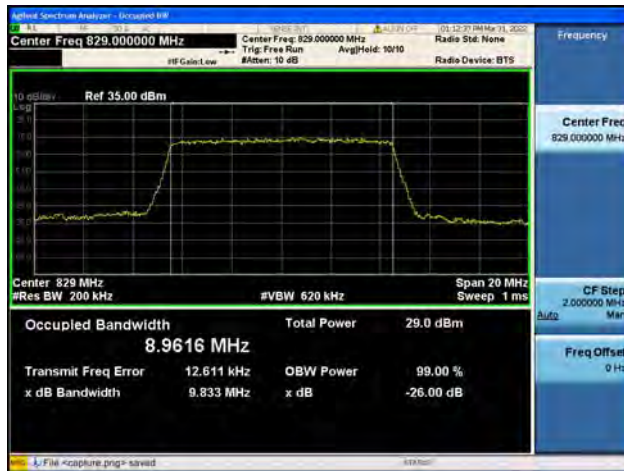


Band26Part22 / 5MHz / High CH / 16QAM

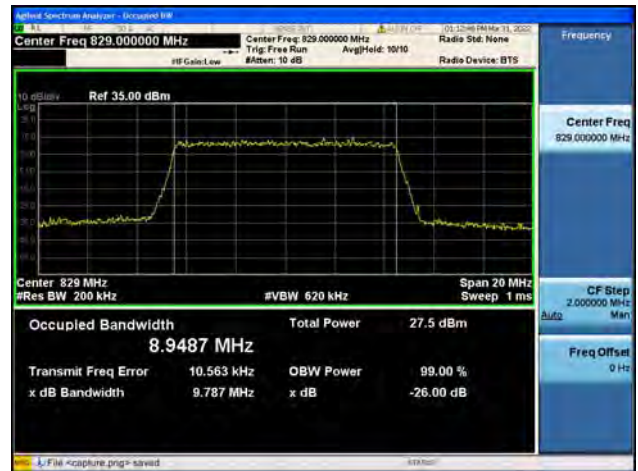




Band26Part22 / 10MHz / Low CH / QPSK



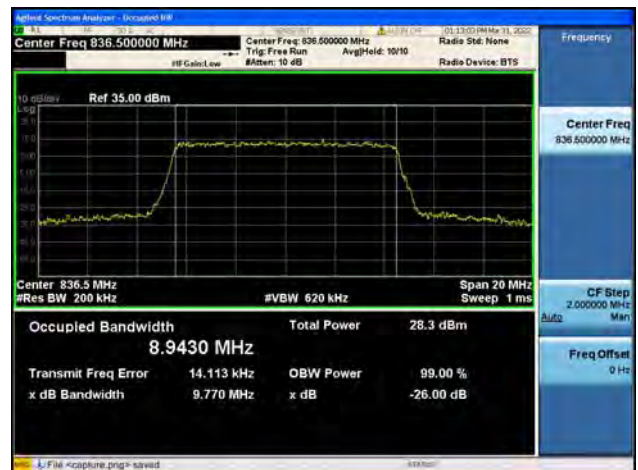
Band26Part22 / 10MHz / Low CH / 16QAM



Band26Part22 / 10MHz / Mid CH / QPSK



Band26Part22 / 10MHz / Mid CH / 16QAM



Band26Part22 / 10MHz / High CH / QPSK

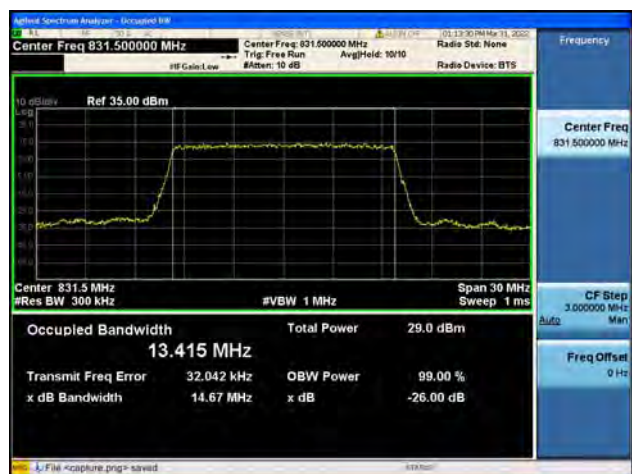


Band26Part22 / 10MHz / High CH / 16QAM

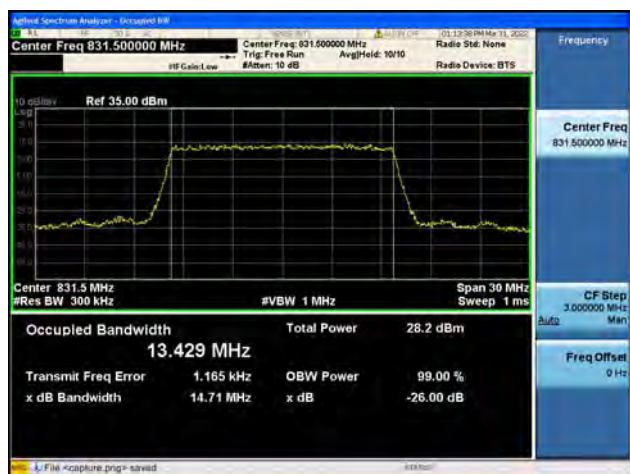




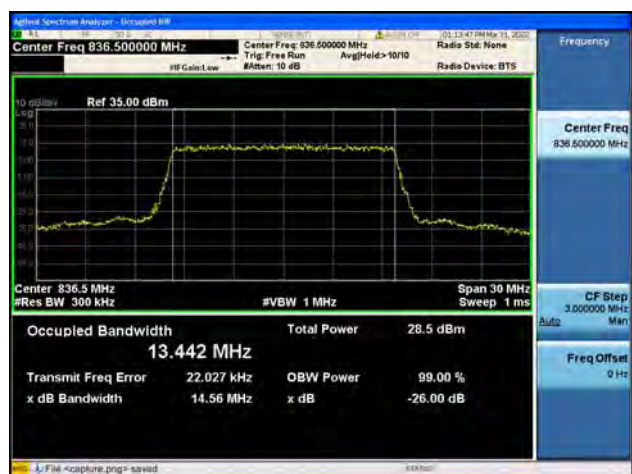
Band26Part22 / 15MHz / Low CH / QPSK



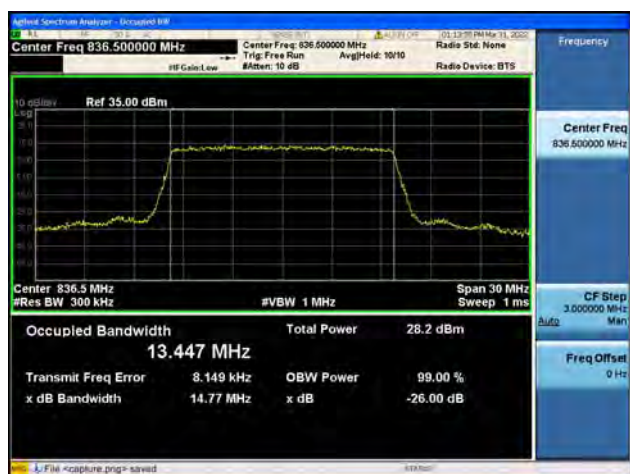
Band26Part22 / 15MHz / Low CH / 16QAM



Band26Part22 / 15MHz / Mid CH / QPSK



Band26Part22 / 15MHz / Mid CH / 16QAM



Band26Part22 / 15MHz / High CH / QPSK

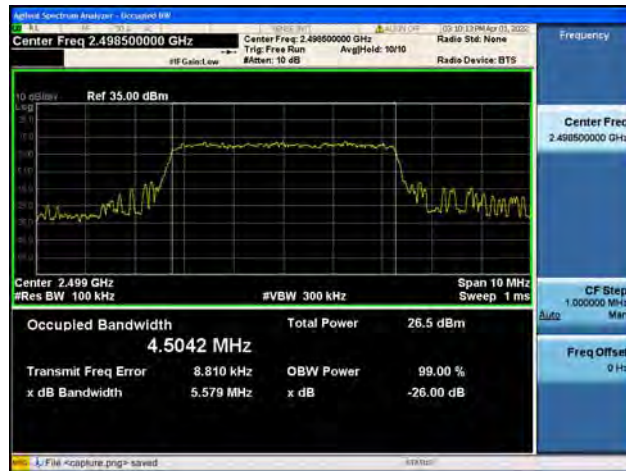


Band26Part22 / 15MHz / High CH / 16QAM

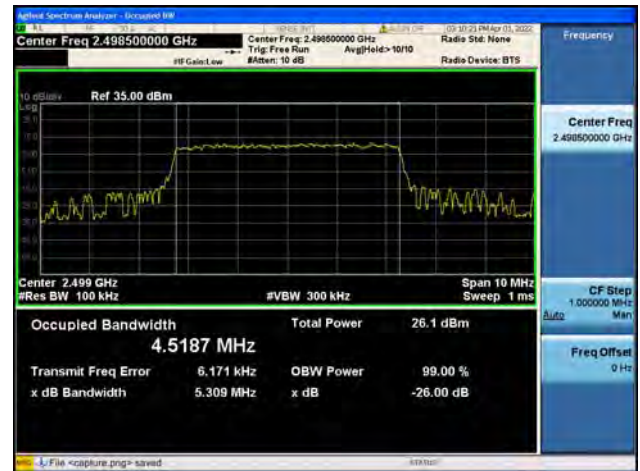




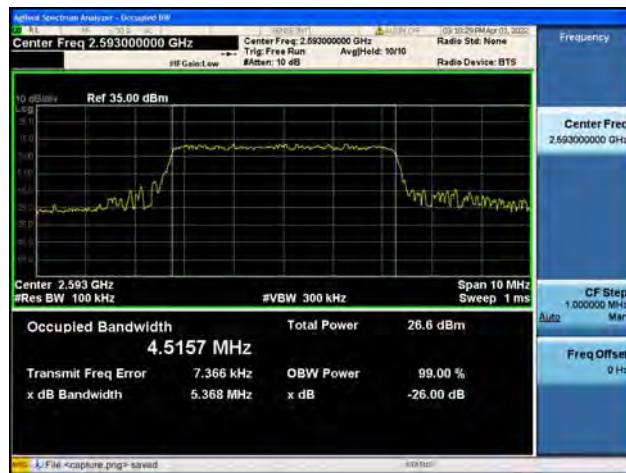
Band41 / 5MHz / Low CH / QPSK



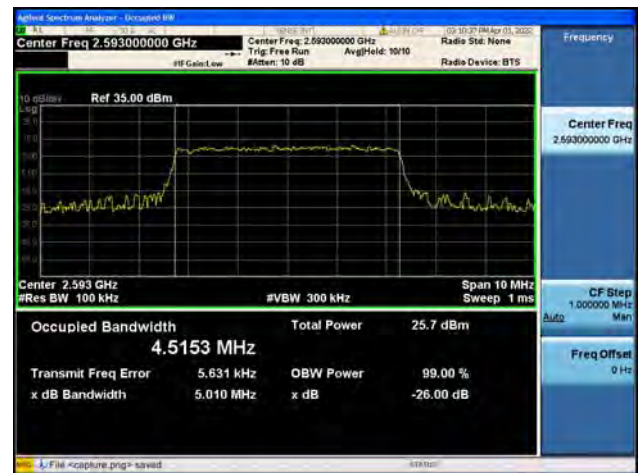
Band41 / 5MHz / Low CH / 16QAM



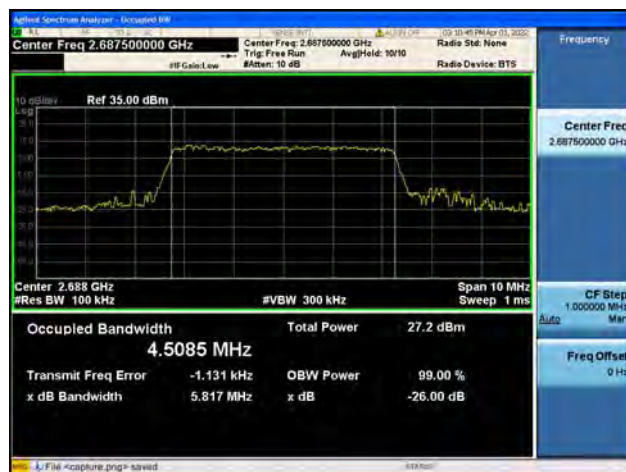
Band41 / 5MHz / Mid CH / QPSK



Band41 / 5MHz / Mid CH / 16QAM



Band41 / 5MHz / High CH / QPSK

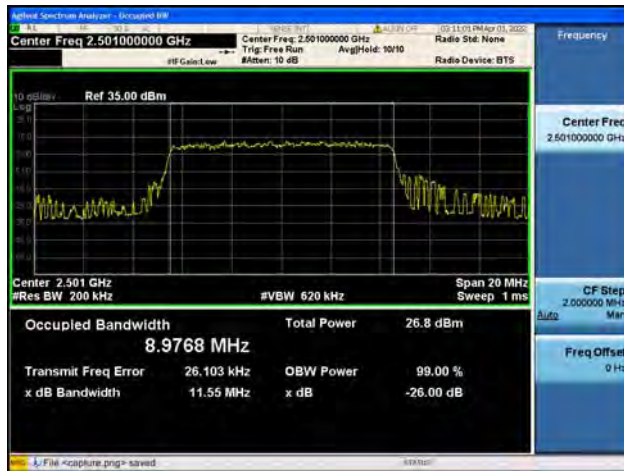


Band41 / 5MHz / High CH / 16QAM





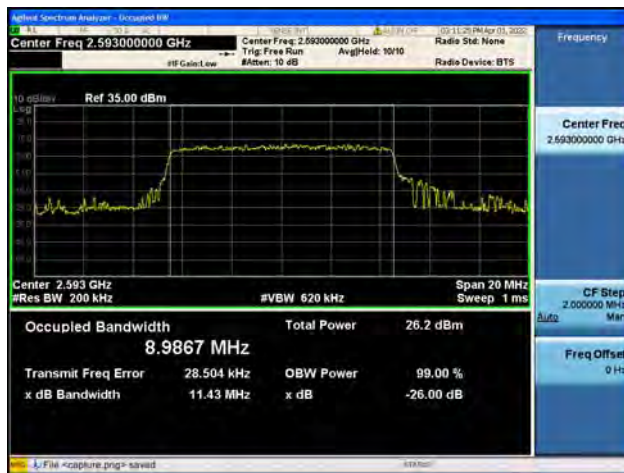
Band41 / 10MHz / Low CH / QPSK



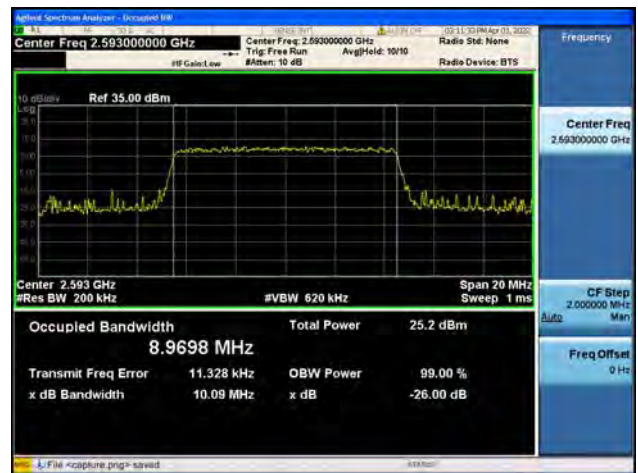
Band41 / 10MHz / Low CH / 16QAM



Band41 / 10MHz / Mid CH / QPSK



Band41 / 10MHz / Mid CH / 16QAM



Band41 / 10MHz / High CH / QPSK

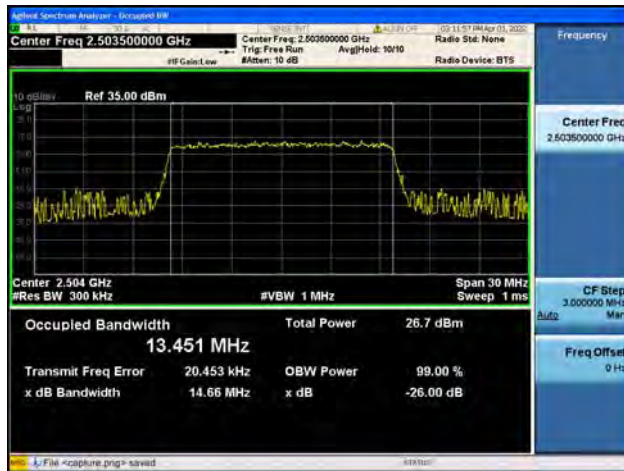


Band41 / 10MHz / High CH / 16QAM

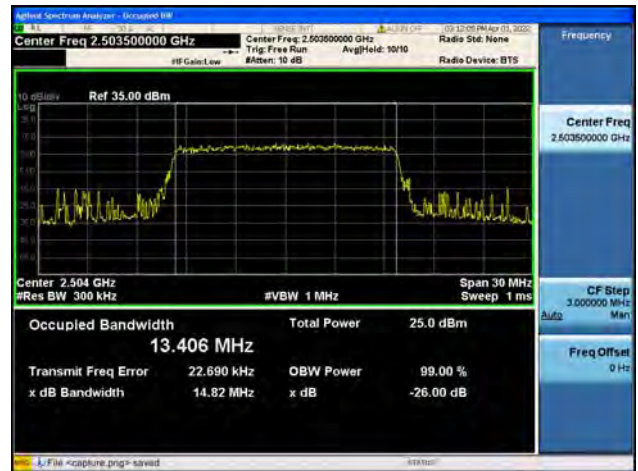




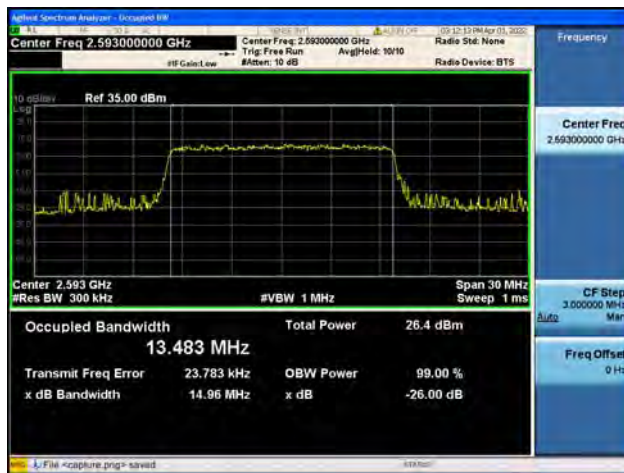
Band41 / 15MHz / Low CH / QPSK



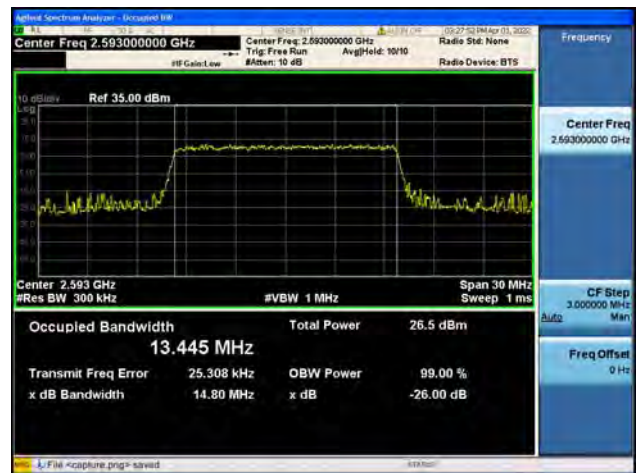
Band41 / 15MHz / Low CH / 16QAM



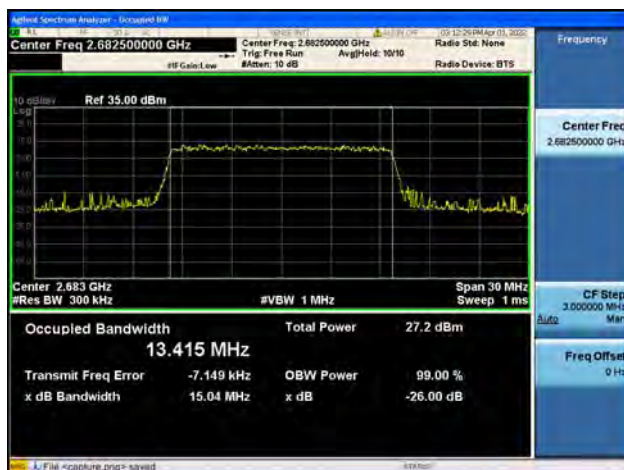
Band41 / 15MHz / Mid CH / QPSK



Band41 / 15MHz / Mid CH / 16QAM



Band41 / 15MHz / High CH / QPSK

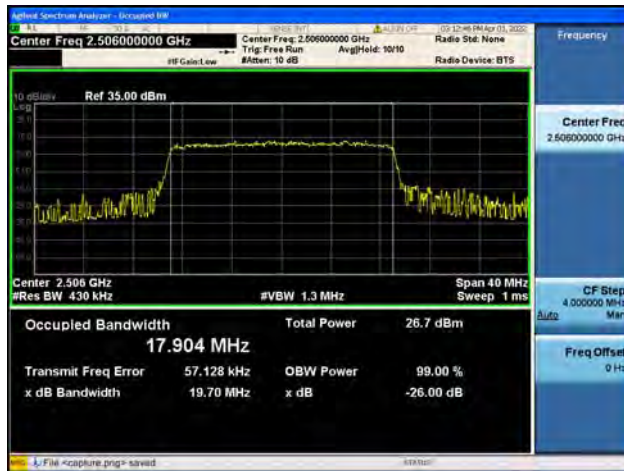


Band41 / 15MHz / High CH / 16QAM

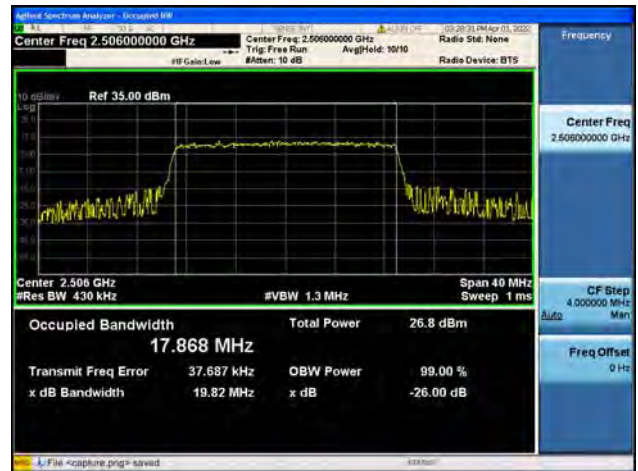




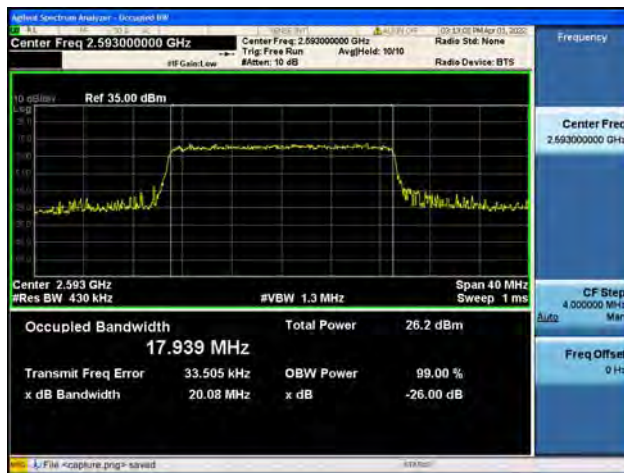
Band41 / 20MHz / Low CH / QPSK



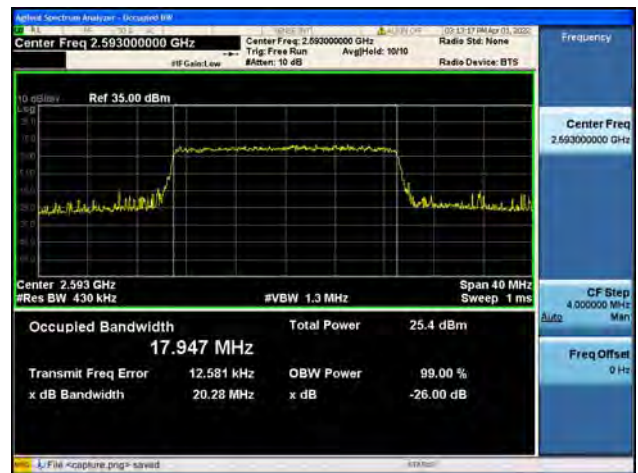
Band41 / 20MHz / Low CH / 16QAM



Band41 / 20MHz / Mid CH / QPSK



Band41 / 20MHz / Mid CH / 16QAM



Band41 / 20MHz / High CH / QPSK

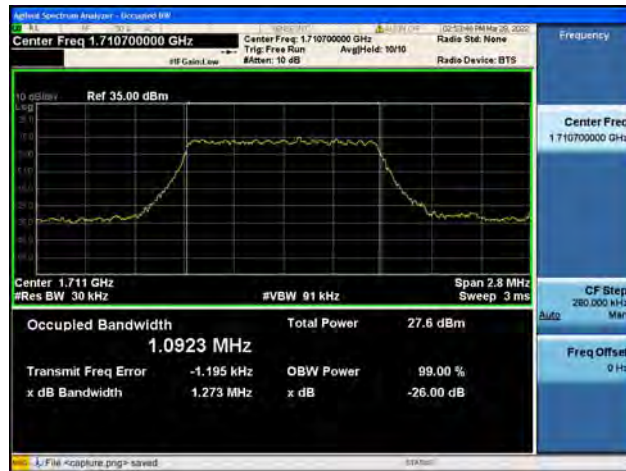


Band41 / 20MHz / High CH / 16QAM

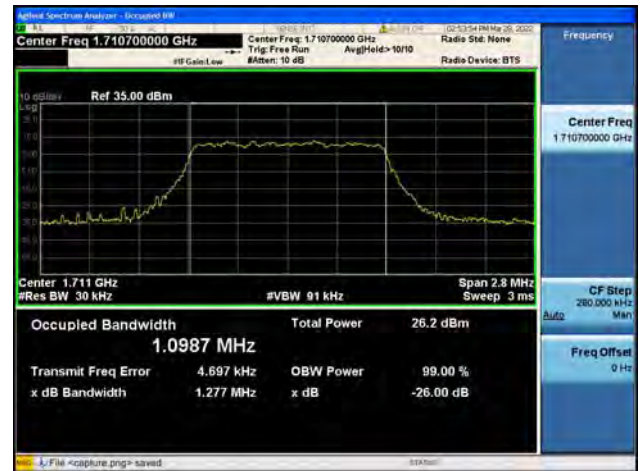




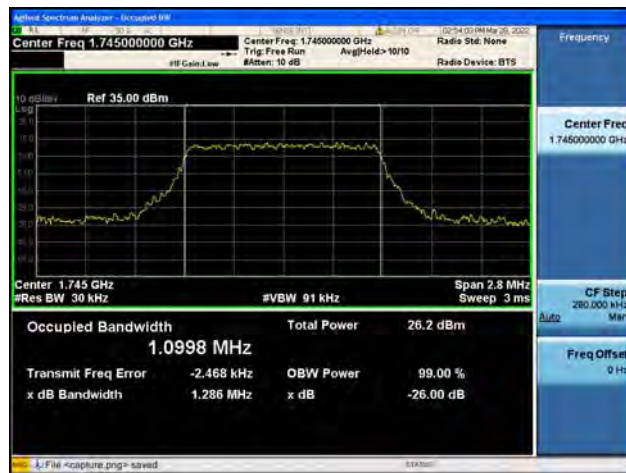
Band66 / 1.4MHz / Low CH / QPSK



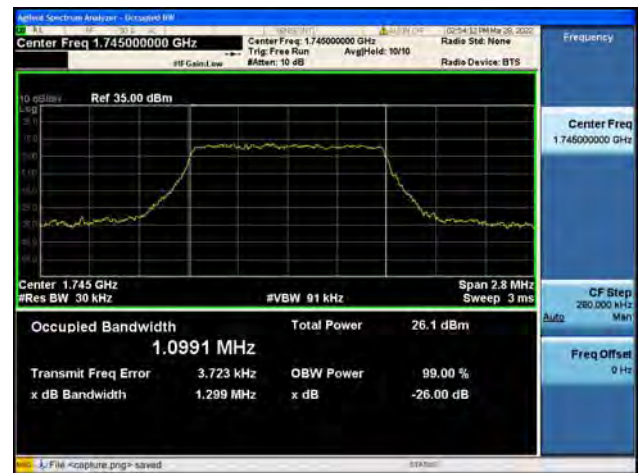
Band66 / 1.4MHz / Low CH / 16QAM



Band66 / 1.4MHz / Mid CH / QPSK



Band66 / 1.4MHz / Mid CH / 16QAM



Band66 / 1.4MHz / High CH / QPSK



Band66 / 1.4MHz / High CH / 16QAM

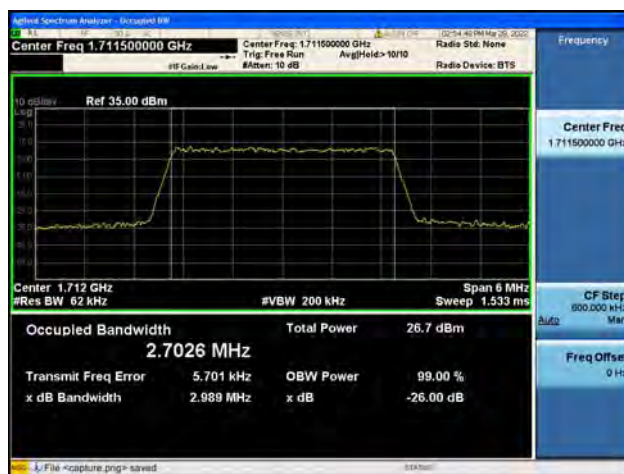




Band66 / 3MHz / Low CH / QPSK



Band66 / 3MHz / Low CH / 16QAM



Band66 / 3MHz / Mid CH / QPSK



Band66 / 3MHz / Mid CH / 16QAM



Band66 / 3MHz / High CH / QPSK

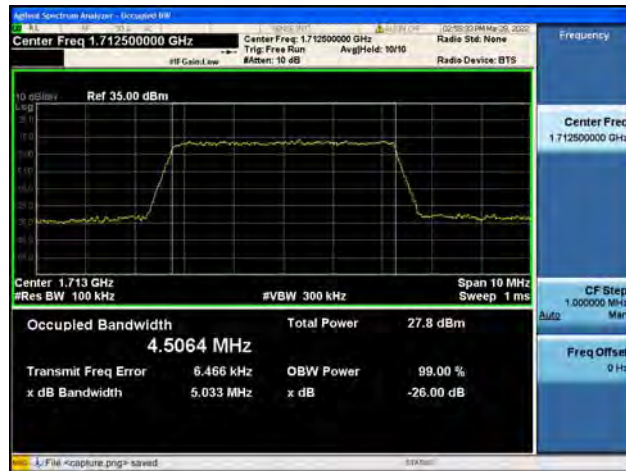


Band66 / 3MHz / High CH / 16QAM

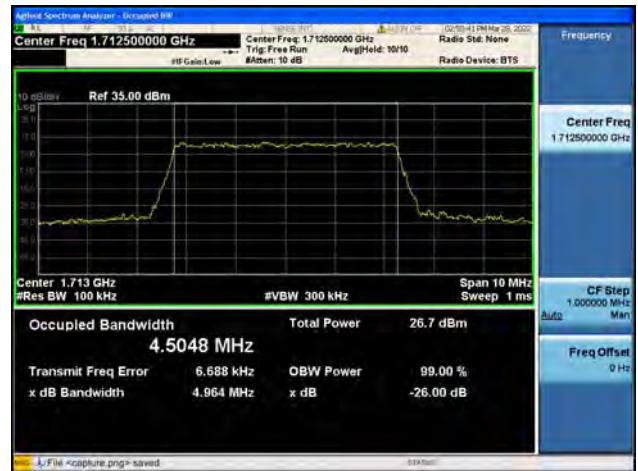




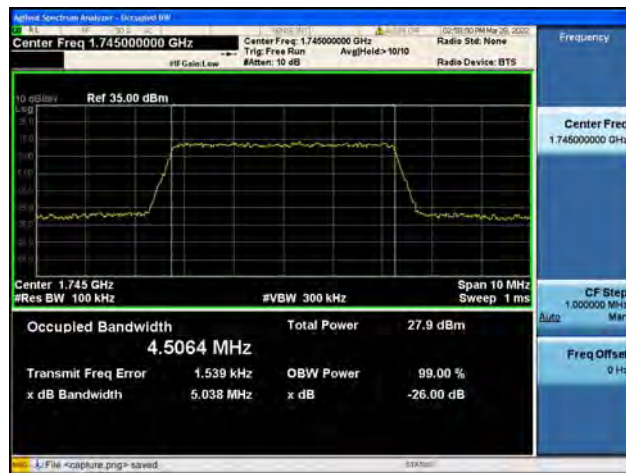
Band66 / 5MHz / Low CH / QPSK



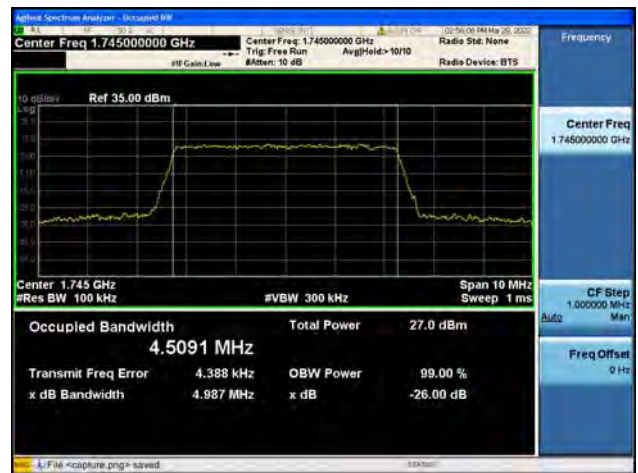
Band66 / 5MHz / Low CH / 16QAM



Band66 / 5MHz / Mid CH / QPSK



Band66 / 5MHz / Mid CH / 16QAM



Band66 / 5MHz / High CH / QPSK

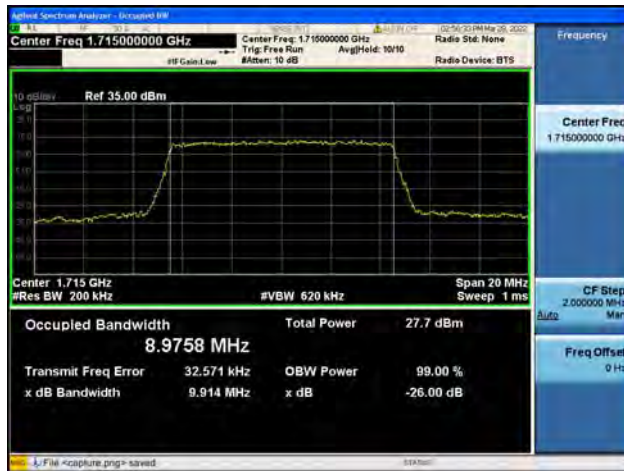


Band66 / 5MHz / High CH / 16QAM

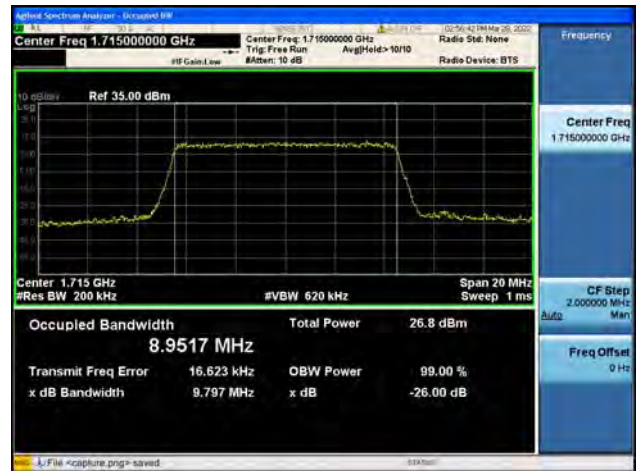




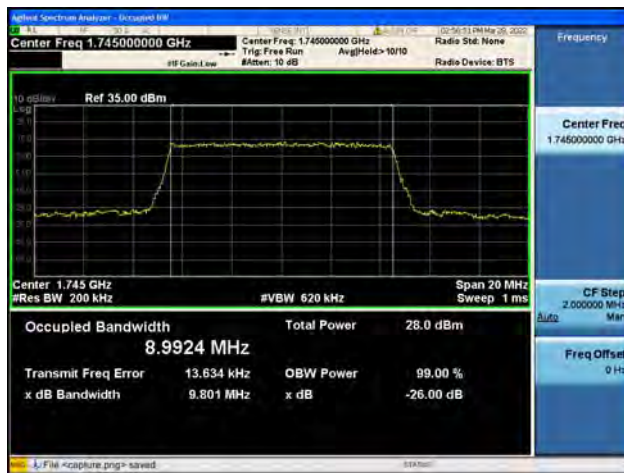
Band66 / 10MHz / Low CH / QPSK



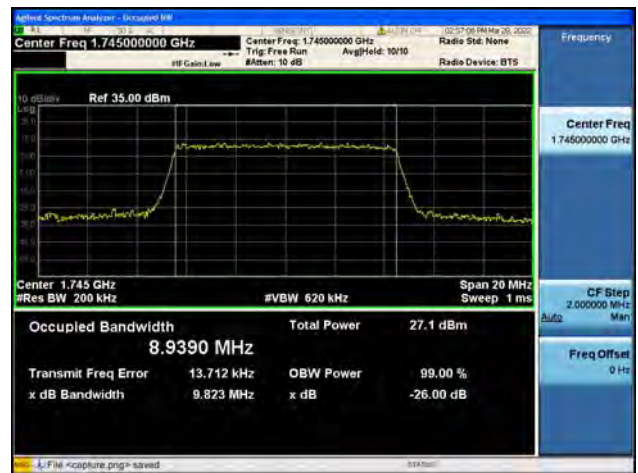
Band66 / 10MHz / Low CH / 16QAM



Band66 / 10MHz / Mid CH / QPSK



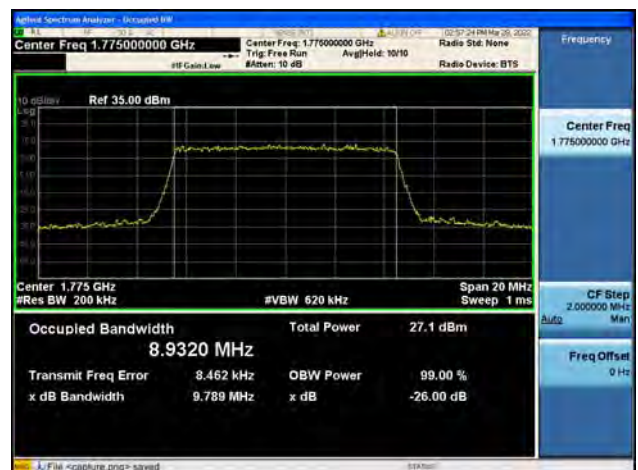
Band66 / 10MHz / Mid CH / 16QAM



Band66 / 10MHz / High CH / QPSK

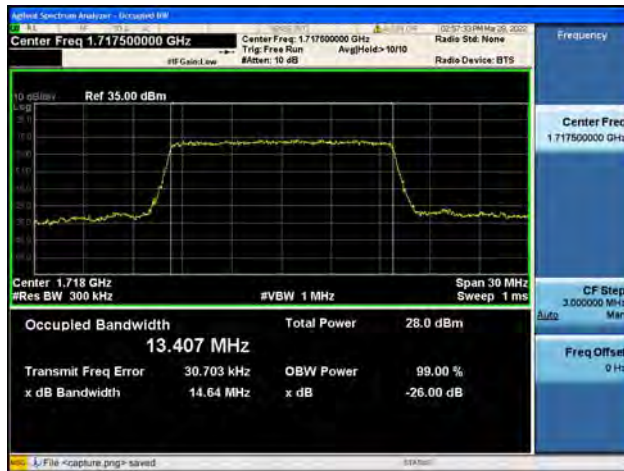


Band66 / 10MHz / High CH / 16QAM

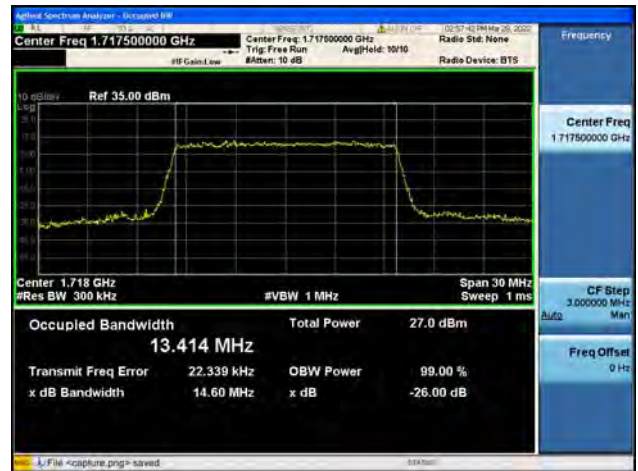




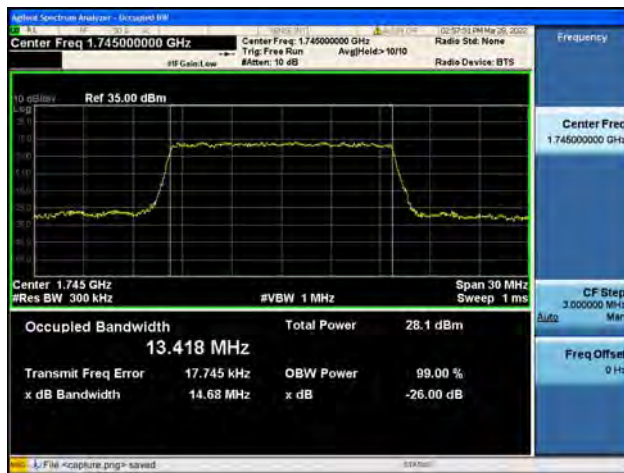
Band66 / 15MHz / Low CH / QPSK



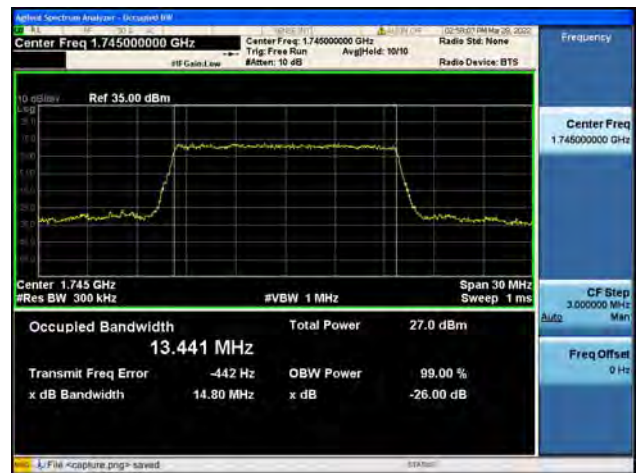
Band66 / 15MHz / Low CH / 16QAM



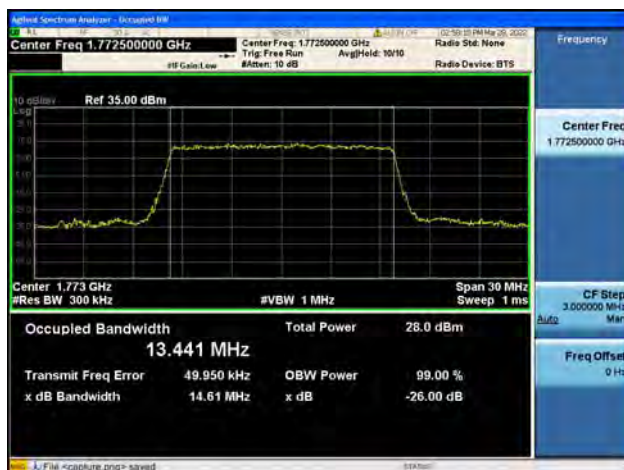
Band66 / 15MHz / Mid CH / QPSK



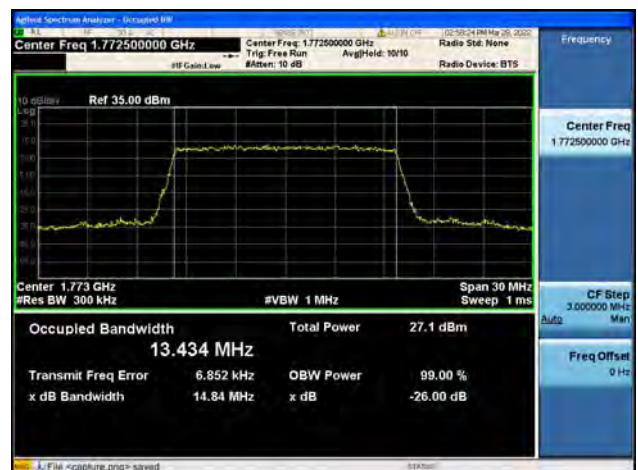
Band66 / 15MHz / Mid CH / 16QAM



Band66 / 15MHz / High CH / QPSK



Band66 / 15MHz / High CH / 16QAM

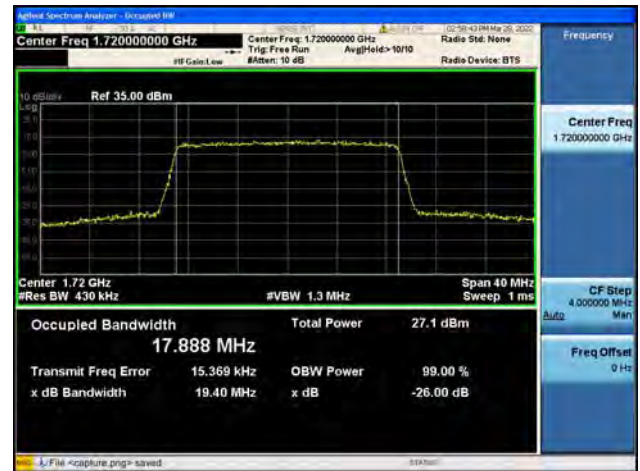




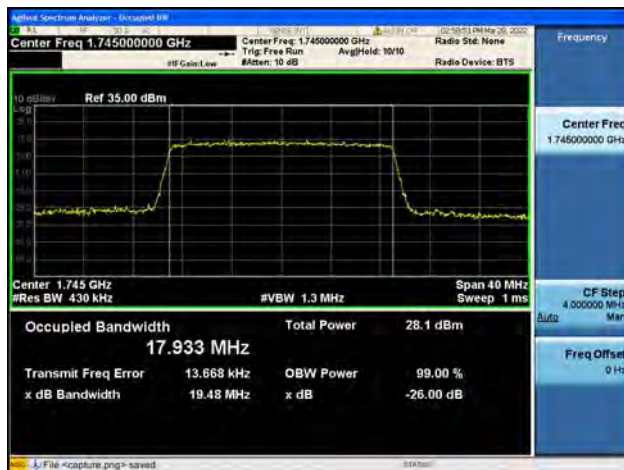
Band66 / 20MHz / Low CH / QPSK



Band66 / 20MHz / Low CH / 16QAM



Band66 / 20MHz / Mid CH / QPSK



Band66 / 20MHz / Mid CH / 16QAM



Band66 / 20MHz / High CH / QPSK



Band66 / 20MHz / High CH / 16QAM



2.3. Frequency Stability

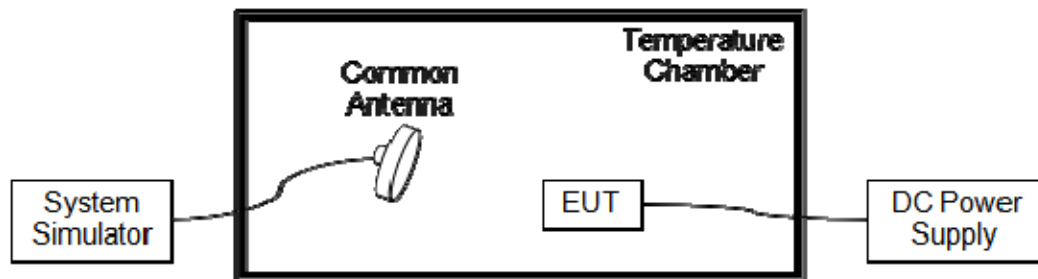
2.3.1. Requirement

According to FCC section 2.1055, 24.235, 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 $+50^{\circ}\text{C}$ 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 -10°C to 60°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 3.85V, 4.40V and 3.50V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	40	0.021	PASS
Normal		-10	31	0.016	
Normal		0	-39	-0.021	
Normal		+10	41	0.022	
Normal		+20	18	0.010	
Normal		+30	16	0.009	
Normal		+40	-33	-0.018	
Normal		+50	-18	-0.010	
Normal		+60	40	0.021	
High	4.40	+20	-43	-0.023	PASS
BATT.ENDPOINT	3.50	+20	36	0.019	

LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	24	0.014	PASS
Normal		-10	37	0.021	
Normal		0	21	0.012	
Normal		+10	46	0.027	
Normal		+20	-57	-0.033	
Normal		+30	-37	-0.021	
Normal		+40	-54	-0.031	
Normal		+50	35	0.020	
Normal		+60	-58	-0.033	
High	4.40	+20	47	0.027	PASS
BATT.ENDPOINT	3.50	+20	-34	-0.020	



LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-54	-0.065	PASS
Normal		-10	33	0.039	
Normal		0	50	0.060	
Normal		+10	49	0.059	
Normal		+20	33	0.039	
Normal		+30	13	0.016	
Normal		+40	24	0.029	
Normal		+50	-59	-0.071	
Normal		+60	14	0.017	
High	4.40	+20	-27	-0.032	
BATT.ENDPOINT	3.50	+20	25	0.030	

LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz Limit= Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	43	0.061	PASS
Normal		-10	-22	-0.031	
Normal		0	41	0.058	
Normal		+10	16	0.023	
Normal		+20	21	0.030	
Normal		+30	54	0.076	
Normal		+40	45	0.064	
Normal		+50	-53	-0.075	
Normal		+60	41	0.058	
High	4.40	+20	47	0.066	
BATT.ENDPOINT	3.50	+20	-27	-0.038	



LTE Band 13, QPSK, Channel 23230, Frequency 782.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	21	0.027	PASS
Normal		-10	-33	-0.042	
Normal		0	-54	-0.069	
Normal		+10	55	0.070	
Normal		+20	-57	-0.073	
Normal		+30	13	0.017	
Normal		+40	26	0.033	
Normal		+50	-36	-0.046	
Normal		+60	-49	-0.063	
High	4.40	+20	-43	-0.055	
BATT.ENDPOINT	3.50	+20	-18	-0.023	

LTE Band 17, QPSK, Channel 23790, Frequency 710.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	19	0.027	PASS
Normal		-10	-13	-0.018	
Normal		0	18	0.025	
Normal		+10	-26	-0.037	
Normal		+20	-49	-0.069	
Normal		+30	-34	-0.048	
Normal		+40	29	0.041	
Normal		+50	-36	-0.051	
Normal		+60	-46	-0.065	
High	4.40	+20	-24	-0.034	
BATT.ENDPOINT	3.50	+20	-29	-0.041	



LTE Band 25, QPSK, Channel 26365, Frequency 1882.5MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	39	0.021	PASS
Normal		-10	19	0.010	
Normal		0	36	0.019	
Normal		+10	36	0.019	
Normal		+20	31	0.016	
Normal		+30	-45	-0.024	
Normal		+40	-20	-0.011	
Normal		+50	-23	-0.012	
Normal		+60	-30	-0.016	
High	4.40	+20	31	0.016	
BATT.ENDPOINT	3.50	+20	30	0.016	

LTE Band 26, QPSK, Channel 26915, Frequency 836.5MHz Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	55	0.066	PASS
Normal		-10	-17	-0.020	
Normal		0	46	0.055	
Normal		+10	30	0.036	
Normal		+20	44	0.053	
Normal		+30	23	0.027	
Normal		+40	-20	-0.024	
Normal		+50	25	0.030	
Normal		+55	16	0.019	
High	4.45	+20	-39	-0.047	
BATT.ENDPOINT	3.00	+20	-22	-0.026	



LTE Band 41, QPSK, Channel 40620, Frequency 2593.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-52	-0.020	PASS
Normal		-10	-28	-0.011	
Normal		0	-51	-0.020	
Normal		+10	19	0.007	
Normal		+20	45	0.017	
Normal		+30	-25	-0.010	
Normal		+40	-22	-0.008	
Normal		+50	24	0.009	
Normal		+60	35	0.013	
High	4.40	+20	47	0.018	
BATT.ENDPOINT	3.50	+20	-39	-0.015	

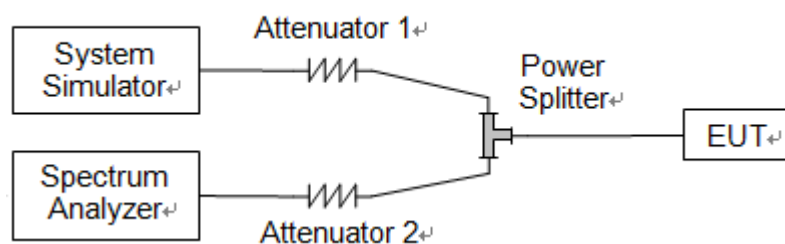
LTE Band 66, QPSK, Channel 132322, Frequency 1745.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	23	0.013	PASS
Normal		-10	41	0.023	
Normal		0	49	0.028	
Normal		+10	-26	-0.015	
Normal		+20	-44	-0.025	
Normal		+30	-23	-0.013	
Normal		+40	-14	-0.008	
Normal		+50	-13	-0.007	
Normal		+60	-45	-0.026	
High	4.40	+20	27	0.015	
BATT.ENDPOINT	3.50	+20	35	0.020	

2.4. Peak to Average Radio

2.4.1. Requirement

According to FCC section 24.232(d) and 27.50(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. 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 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 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



LTE Band 2					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.95	<=13	PASS
	Low	16QAM	5.80	<=13	PASS
	Mid	QPSK	5.11	<=13	PASS
	Mid	16QAM	5.82	<=13	PASS
	High	QPSK	4.45	<=13	PASS
	High	16QAM	5.28	<=13	PASS
3	Low	QPSK	5.13	<=13	PASS
	Low	16QAM	6.00	<=13	PASS
	Mid	QPSK	5.16	<=13	PASS
	Mid	16QAM	5.95	<=13	PASS
	High	QPSK	4.67	<=13	PASS
	High	16QAM	5.50	<=13	PASS
5	Low	QPSK	5.16	<=13	PASS
	Low	16QAM	5.90	<=13	PASS
	Mid	QPSK	5.21	<=13	PASS
	Mid	16QAM	5.90	<=13	PASS
	High	QPSK	4.91	<=13	PASS
	High	16QAM	5.64	<=13	PASS
10	Low	QPSK	5.18	<=13	PASS
	Low	16QAM	5.88	<=13	PASS
	Mid	QPSK	5.18	<=13	PASS
	Mid	16QAM	5.92	<=13	PASS
	High	QPSK	5.03	<=13	PASS
	High	16QAM	5.78	<=13	PASS
15	Low	QPSK	5.09	<=13	PASS
	Low	16QAM	5.86	<=13	PASS
	Mid	QPSK	5.07	<=13	PASS
	Mid	16QAM	5.83	<=13	PASS
	High	QPSK	5.06	<=13	PASS
	High	16QAM	5.83	<=13	PASS
20	Low	QPSK	5.09	<=13	PASS
	Low	16QAM	5.91	<=13	PASS
	Mid	QPSK	5.09	<=13	PASS
	Mid	16QAM	5.89	<=13	PASS
	High	QPSK	5.12	<=13	PASS
	High	16QAM	5.85	<=13	PASS



LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.75	<=13	PASS
	Low	16QAM	5.49	<=13	PASS
	Mid	QPSK	4.30	<=13	PASS
	Mid	16QAM	5.15	<=13	PASS
	High	QPSK	4.94	<=13	PASS
	High	16QAM	5.66	<=13	PASS
3	Low	QPSK	4.78	<=13	PASS
	Low	16QAM	5.65	<=13	PASS
	Mid	QPSK	4.43	<=13	PASS
	Mid	16QAM	5.26	<=13	PASS
	High	QPSK	4.96	<=13	PASS
	High	16QAM	5.79	<=13	PASS
5	Low	QPSK	4.92	<=13	PASS
	Low	16QAM	5.66	<=13	PASS
	Mid	QPSK	4.70	<=13	PASS
	Mid	16QAM	5.43	<=13	PASS
	High	QPSK	5.05	<=13	PASS
	High	16QAM	5.73	<=13	PASS
10	Low	QPSK	4.90	<=13	PASS
	Low	16QAM	5.67	<=13	PASS
	Mid	QPSK	4.75	<=13	PASS
	Mid	16QAM	5.45	<=13	PASS
	High	QPSK	4.94	<=13	PASS
	High	16QAM	5.72	<=13	PASS
15	Low	QPSK	4.66	<=13	PASS
	Low	16QAM	5.47	<=13	PASS
	Mid	QPSK	4.47	<=13	PASS
	Mid	16QAM	5.27	<=13	PASS
	High	QPSK	4.71	<=13	PASS
	High	16QAM	5.52	<=13	PASS
20	Low	QPSK	4.70	<=13	PASS
	Low	16QAM	5.54	<=13	PASS
	Mid	QPSK	4.57	<=13	PASS
	Mid	16QAM	5.36	<=13	PASS
	High	QPSK	4.75	<=13	PASS
	High	16QAM	5.58	<=13	PASS



LTE Band 25					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.01	<=13	PASS
	Low	16QAM	5.87	<=13	PASS
	Mid	QPSK	5.18	<=13	PASS
	Mid	16QAM	5.86	<=13	PASS
	High	QPSK	4.34	<=13	PASS
	High	16QAM	5.09	<=13	PASS
3	Low	QPSK	5.19	<=13	PASS
	Low	16QAM	6.01	<=13	PASS
	Mid	QPSK	5.18	<=13	PASS
	Mid	16QAM	6.00	<=13	PASS
	High	QPSK	4.39	<=13	PASS
	High	16QAM	5.25	<=13	PASS
5	Low	QPSK	5.19	<=13	PASS
	Low	16QAM	5.92	<=13	PASS
	Mid	QPSK	5.19	<=13	PASS
	Mid	16QAM	5.91	<=13	PASS
	High	QPSK	4.67	<=13	PASS
	High	16QAM	5.39	<=13	PASS
10	Low	QPSK	5.15	<=13	PASS
	Low	16QAM	5.93	<=13	PASS
	Mid	QPSK	5.18	<=13	PASS
	Mid	16QAM	5.90	<=13	PASS
	High	QPSK	4.87	<=13	PASS
	High	16QAM	5.62	<=13	PASS
15	Low	QPSK	5.13	<=13	PASS
	Low	16QAM	5.88	<=13	PASS
	Mid	QPSK	5.09	<=13	PASS
	Mid	16QAM	5.86	<=13	PASS
	High	QPSK	4.77	<=13	PASS
	High	16QAM	5.65	<=13	PASS
20	Low	QPSK	5.07	<=13	PASS
	Low	16QAM	5.94	<=13	PASS
	Mid	QPSK	5.10	<=13	PASS
	Mid	16QAM	5.89	<=13	PASS
	High	QPSK	4.93	<=13	PASS
	High	16QAM	5.79	<=13	PASS



LTE Band 66					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.82	<=13	PASS
	Low	16QAM	5.73	<=13	PASS
	Mid	QPSK	4.82	<=13	PASS
	Mid	16QAM	5.80	<=13	PASS
	High	QPSK	4.87	<=13	PASS
	High	16QAM	5.70	<=13	PASS
3	Low	QPSK	4.93	<=13	PASS
	Low	16QAM	5.84	<=13	PASS
	Mid	QPSK	4.89	<=13	PASS
	Mid	16QAM	5.83	<=13	PASS
	High	QPSK	4.97	<=13	PASS
	High	16QAM	5.83	<=13	PASS
5	Low	QPSK	5.06	<=13	PASS
	Low	16QAM	5.79	<=13	PASS
	Mid	QPSK	5.08	<=13	PASS
	Mid	16QAM	5.83	<=13	PASS
	High	QPSK	4.99	<=13	PASS
	High	16QAM	5.79	<=13	PASS
10	Low	QPSK	5.00	<=13	PASS
	Low	16QAM	5.73	<=13	PASS
	Mid	QPSK	5.02	<=13	PASS
	Mid	16QAM	5.80	<=13	PASS
	High	QPSK	5.03	<=13	PASS
	High	16QAM	5.84	<=13	PASS
15	Low	QPSK	4.81	<=13	PASS
	Low	16QAM	5.64	<=13	PASS
	Mid	QPSK	4.83	<=13	PASS
	Mid	16QAM	5.64	<=13	PASS
	High	QPSK	4.94	<=13	PASS
	High	16QAM	5.72	<=13	PASS
20	Low	QPSK	4.80	<=13	PASS
	Low	16QAM	5.64	<=13	PASS
	Mid	QPSK	4.89	<=13	PASS
	Mid	16QAM	5.67	<=13	PASS
	High	QPSK	4.96	<=13	PASS
	High	16QAM	5.81	<=13	PASS